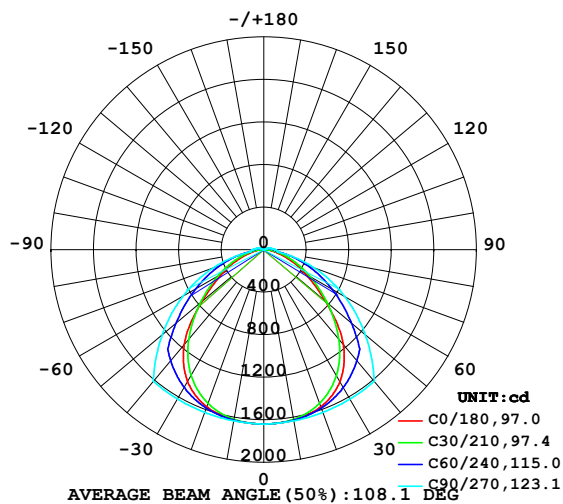


LUMINAIRE PHOTOMETRIC TEST REPORT

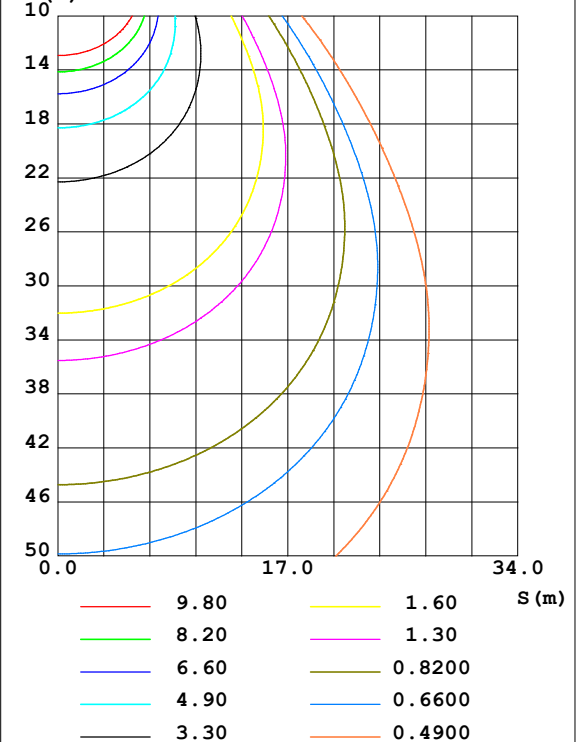
Test:U:231.6V I:0.1774A P:39.18W PF:0.9537 Freq:49.99Hz Lamp Flux:4690.12x1 lm		
NAME: P17ES-UC-4040H-1203B-1684014R8	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 119.71 lm/W			
MODEL		Imax(cd)	1640	S/MH(C0/180)	1.28
NOMINAL POWER(W)	40	LOR(%)	100.0	S/MH(C90/270)	1.52
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	4690.1	η UP,DN(C0-180)	1.3,48.7
NOMINAL FLUX(lm)	4690.12	CIE CLASS	DIRECT	η UP,DN(C180-360)	1.3,48.7
LAMPS INSIDE	1	η up(%)	2.5	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	230	η down(%)	97.5	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 90DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC
Test Date:2018-11-30

γ Range:-180 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:53.0%
Test Distance:10.380m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1626	1623	1634	1623	1626	1623	1634	1623	0- 10	155.9	155.9	3.32, 3.32
20	1572	1554	1628	1554	1572	1554	1628	1554	10- 20	453.6	609.5	13, 13
30	1433	1412	1622	1412	1433	1412	1622	1412	20- 30	702.4	1312	28, 28
40	1165	1206	1616	1206	1165	1206	1616	1206	30- 40	860.4	2172	46.3, 46.3
50	760.7	940.4	1247	940.4	760.7	940.4	1247	940.4	40- 50	865.0	3037	64.8, 64.8
60	452.6	604.1	877.0	604.1	452.6	604.1	877.0	604.1	50- 60	698.9	3736	79.7, 79.7
70	231.1	346.2	507.5	346.2	231.1	346.2	507.5	346.2	60- 70	483.3	4220	90, 90
80	88.85	141.5	137.9	141.5	88.85	141.5	137.9	141.5	70- 80	256.0	4476	95.4, 95.4
90	1.450	66.63	105.1	66.63	1.450	66.63	105.1	66.63	80- 90	95.25	4571	97.5, 97.5
100	2.406	38.29	72.25	38.29	2.406	38.29	72.25	38.29	90-100	54.70	4625	98.6, 98.6
110	3.442	10.97	39.43	10.97	3.442	10.97	39.43	10.97	100-110	28.46	4654	99.2, 99.2
120	4.654	5.688	6.611	5.688	4.654	5.688	6.611	5.688	110-120	10.14	4664	99.4, 99.4
130	6.228	6.790	7.714	6.790	6.228	6.790	7.714	6.790	120-130	5.641	4670	99.6, 99.6
140	7.970	8.187	8.816	8.187	7.970	8.187	8.816	8.187	130-140	5.891	4676	99.7, 99.7
150	9.323	9.588	9.919	9.588	9.323	9.588	9.919	9.588	140-150	5.584	4681	99.8, 99.8
160	10.66	10.65	11.02	10.65	10.66	10.65	11.02	10.65	150-160	4.693	4686	99.9, 99.9
170	11.57	11.46	11.50	11.46	11.57	11.46	11.50	11.46	160-170	3.142	4689	100, 100
180	11.97	11.97	11.97	11.97	11.97	11.97	11.97	11.97	170-180	1.116	4690	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 2618.3 lm

%lum = 55.8%

%lamp = 55.8%

Conical surface Flux(120deg): 3736.2 lm

%lum = 79.7%

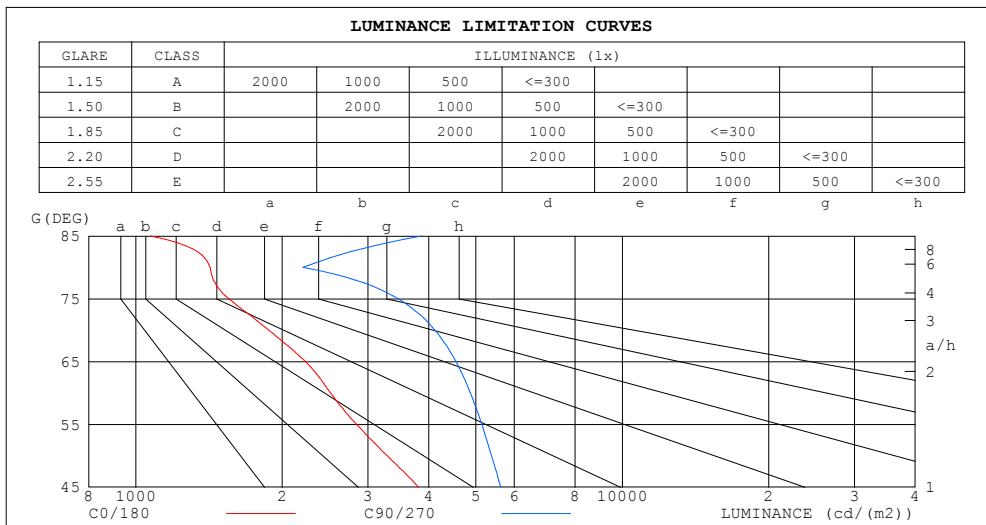
%lamp = 79.7%

C Range: 0 - 90DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: QC
 Test Date: 2018-11-30

γ Range: -180 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity: 53.0%
 Test Distance: 10.380m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:231.6V I:0.1774A P:39.18W PF:0.9537 Freq:49.99Hz Lamp Flux:4690.12x1 lm		
NAME: P17ES-UC-4040H-1203B-1684014R8	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	1073	3870
80	1421	2206
75	1554	3464
70	1877	4121
65	2232	4552
60	2514	4872
55	2843	5145
50	3287	5387
45	3813	5626

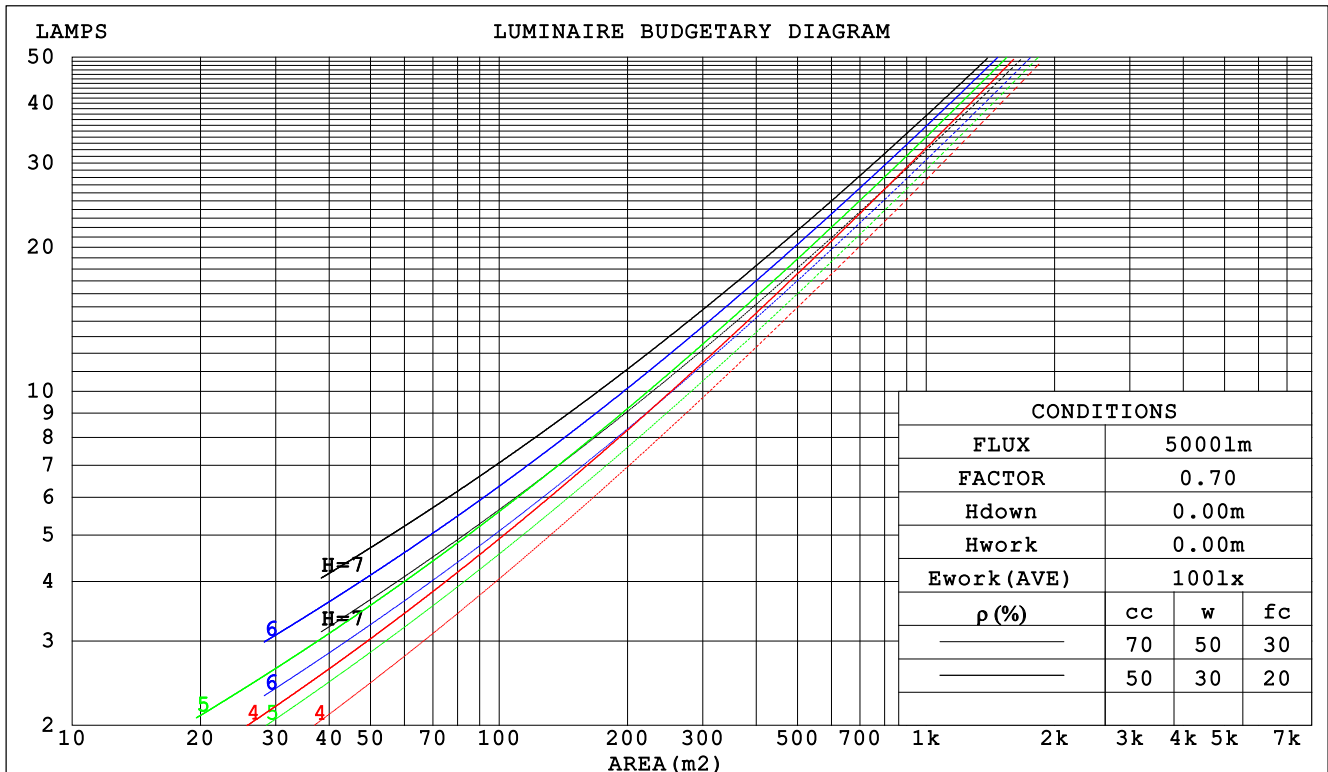
C Range: 0 - 90DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC
Test Date:2018-11-30

γ Range:-180 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:53.0%
Test Distance:10.380m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:231.6V I:0.1774A P:39.18W PF:0.9537 Freq:49.99Hz Lamp Flux:4690.12x1 lm		
NAME: P17ES-UC-4040H-1203B-1684014R8	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.18	1.18	1.18	1.15	1.15	1.15	1.10	1.10	1.10	1.04	1.04	1.04	.00	.00	.00	.97
1.0	1.04	.00	.96	1.01	.98	.94	.97	.94	.91	.92	.90	.88	.88	.86	.84	.82
2.0	.91	.84	.79	.89	.83	.78	.85	.80	.76	.81	.77	.73	.78	.75	.71	.69
3.0	.80	.72	.66	.78	.71	.65	.75	.69	.64	.72	.67	.62	.69	.65	.61	.59
4.0	.71	.63	.56	.70	.62	.56	.67	.60	.55	.64	.58	.54	.62	.57	.53	.50
5.0	.64	.55	.49	.63	.54	.48	.60	.53	.47	.58	.52	.47	.56	.50	.46	.44
6.0	.58	.49	.42	.56	.48	.42	.54	.47	.42	.52	.46	.41	.51	.45	.40	.38
7.0	.52	.44	.38	.51	.43	.37	.49	.42	.37	.48	.41	.36	.46	.40	.36	.34
8.0	.48	.39	.33	.47	.39	.33	.45	.38	.33	.44	.37	.33	.43	.37	.32	.30
9.0	.44	.36	.30	.43	.35	.30	.42	.35	.30	.40	.34	.29	.39	.33	.29	.27
10.0	.40	.33	.27	.40	.32	.27	.39	.32	.27	.37	.31	.27	.36	.31	.26	.25



C Range: 0 - 90DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC
Test Date:2018-11-30

γ Range:-180 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:53.0%
Test Distance:10.380m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:231.6V I:0.1774A P:39.18W PF:0.9537 Freq:49.99Hz Lamp Flux:4690.12x1 lm		
NAME: P17ES-UC-4040H-1203B-1684014R8	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)										
0.0																	
1.0	.298	.170	.054	.291	.166	.053	.276	.158	.051	.262	.151	.049	.250	.145	.047		
2.0	.280	.154	.047	.274	.151	.046	.261	.145	.045	.249	.140	.044	.238	.134	.042		
3.0	.260	.139	.042	.254	.136	.041	.243	.132	.040	.232	.127	.039	.222	.123	.038		
4.0	.241	.125	.037	.236	.123	.036	.226	.120	.036	.216	.116	.035	.207	.113	.034		
5.0	.224	.114	.033	.219	.112	.033	.210	.109	.032	.201	.106	.032	.193	.103	.031		
6.0	.208	.104	.030	.204	.103	.030	.196	.100	.029	.188	.098	.029	.181	.095	.028		
7.0	.194	.096	.027	.190	.095	.027	.183	.093	.027	.176	.090	.026	.170	.088	.026		
8.0	.182	.089	.025	.178	.088	.025	.172	.086	.025	.166	.084	.024	.160	.082	.024		
9.0	.171	.083	.023	.168	.082	.023	.162	.080	.023	.156	.078	.022	.151	.077	.022		
10.0	.161	.077	.021	.158	.076	.021	.153	.075	.021	.147	.073	.021	.143	.072	.021		

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.210	.210	.210	.179	.179	.179	.122	.122	.122	.070	.070	.070	.022	.022	.022	
1.0	.199	.176	.155	.170	.151	.133	.117	.104	.092	.067	.060	.054	.021	.019	.017	
2.0	.190	.152	.119	.163	.131	.103	.112	.090	.072	.064	.053	.042	.021	.017	.014	
3.0	.182	.134	.095	.156	.116	.083	.107	.080	.058	.062	.047	.034	.020	.015	.011	
4.0	.175	.121	.079	.150	.104	.069	.103	.073	.049	.060	.043	.029	.019	.014	.009	
5.0	.167	.110	.068	.144	.095	.059	.099	.067	.042	.057	.039	.025	.018	.013	.008	
6.0	.160	.102	.060	.138	.088	.052	.095	.062	.037	.055	.036	.022	.018	.012	.007	
7.0	.154	.095	.054	.132	.082	.047	.091	.058	.033	.053	.034	.020	.017	.011	.007	
8.0	.147	.089	.049	.127	.077	.043	.088	.054	.030	.051	.032	.018	.017	.011	.006	
9.0	.142	.084	.046	.122	.073	.040	.085	.051	.028	.049	.030	.017	.016	.010	.006	
10.0	.136	.080	.043	.117	.070	.037	.081	.049	.027	.047	.029	.016	.015	.010	.005	

C Range: 0 - 90DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC
Test Date:2018-11-30

γ Range:-180 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:53.0%
Test Distance:10.380m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:231.6V I:0.1774A P:39.18W PF:0.9537 Freq:49.99Hz Lamp Flux:4690.12x1 lm										
NAME: P17ES-UC-4040H-1203B-1684014R8					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.: EVERFINE					SUR.:			Shielding Angle:		
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	10.1	11.5	10.4	11.8	12.0	13.3	14.8	13.6	15.0	15.3
3H	11.0	12.3	11.3	12.6	12.9	14.8	16.1	15.1	16.4	16.7
4H	11.3	12.6	11.7	12.9	13.2	15.3	16.5	15.6	16.8	17.1
6H	11.5	12.7	11.9	13.0	13.4	15.5	16.7	15.8	17.0	17.3
8H	11.6	12.7	12.0	13.1	13.4	15.5	16.7	15.9	17.0	17.4
12H	11.6	12.7	12.0	13.1	13.4	15.7	16.8	16.1	17.1	17.5
4H 2H	11.0	12.2	11.3	12.5	12.8	13.5	14.8	13.9	15.1	15.4
3H	12.0	13.1	12.4	13.4	13.8	15.2	16.3	15.6	16.6	17.0
4H	12.4	13.4	12.8	13.8	14.2	15.8	16.8	16.2	17.2	17.6
6H	12.8	13.7	13.2	14.1	14.5	16.1	17.0	16.6	17.4	17.8
8H	12.9	13.7	13.4	14.1	14.6	16.3	17.1	16.7	17.5	17.9
12H	13.0	13.7	13.4	14.1	14.6	16.5	17.2	16.9	17.7	18.1
8H 4H	12.9	13.7	13.3	14.1	14.5	15.9	16.7	16.3	17.1	17.6
6H	13.4	14.1	13.8	14.5	15.0	16.3	17.0	16.8	17.5	17.9
8H	13.6	14.2	14.1	14.6	15.2	16.5	17.1	17.0	17.6	18.1
12H	13.7	14.2	14.2	14.7	15.3	16.9	17.4	17.4	17.9	18.4
12H 4H	12.9	13.7	13.4	14.1	14.6	15.9	16.6	16.3	17.0	17.5
6H	13.5	14.1	14.0	14.5	15.0	16.3	16.9	16.8	17.4	17.9
8H	13.7	14.2	14.2	14.7	15.3	16.6	17.1	17.1	17.6	18.1
Variations with the observer position at spacings:										
S = 1.0H	+ 0.3 / - 0.3					+ 0.2 / - 0.2				
1.5H	+ 0.2 / - 0.1					+ 0.2 / - 0.3				
2.0H	+ 0.3 / - 0.5					+ 0.5 / - 0.7				

CIE Pub.117, 4690 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 5.4$)

C Range: 0 - 90DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC
Test Date:2018-11-30

γ Range:-180 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:53.0%
Test Distance:10.380m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:231.6V I:0.1774A P:39.18W PF:0.9537 Freq:49.99Hz Lamp Flux:4690.12x1 lm		
NAME: P17ES-UC-4040H-1203B-1684014R8	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

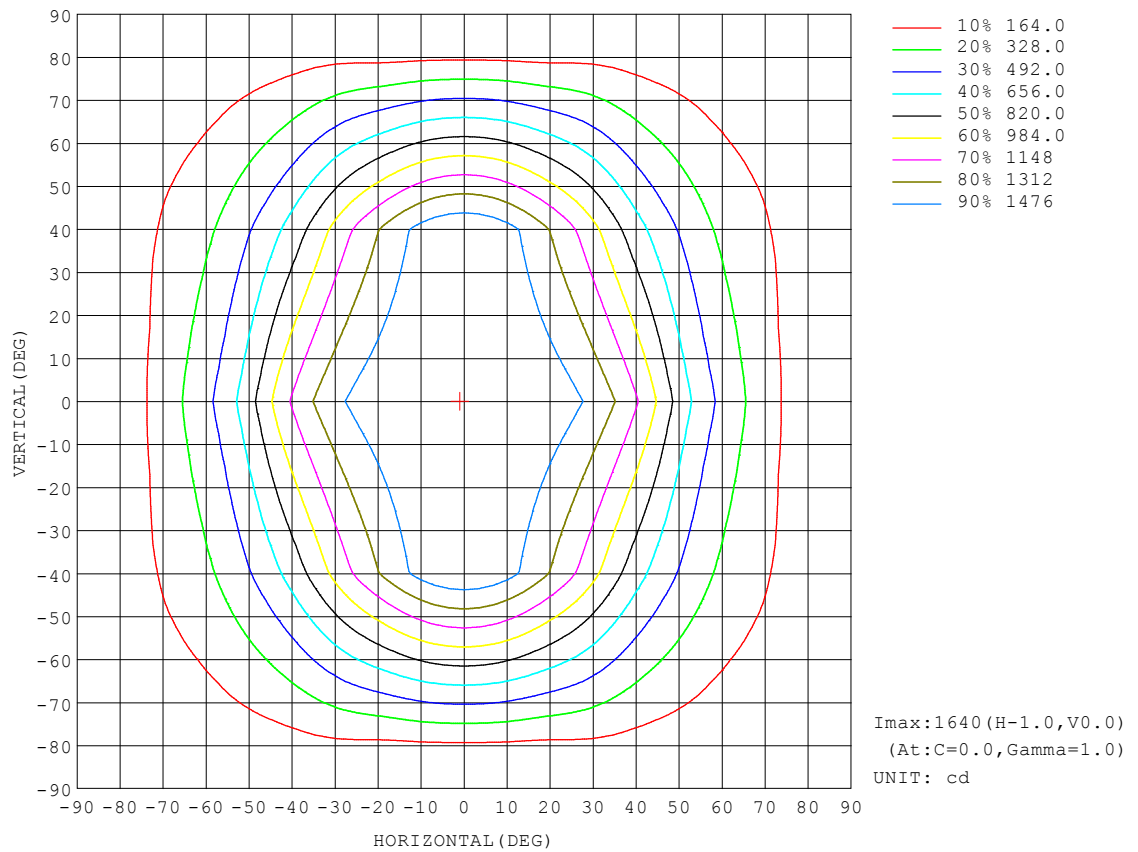
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	58	47	40	57	47	40	56	46	40	33
0.80	68	57	50	67	56	50	65	56	49	42
1.00	77	66	59	75	65	58	73	66	58	51
1.25	84	73	67	82	73	66	79	71	65	58
1.50	89	79	72	87	78	72	84	76	70	63
2.00	95	87	81	93	86	80	90	83	78	70
2.50	99	91	85	97	90	84	93	87	82	74
3.00	102	95	90	100	94	89	96	91	86	78
4.00	106	100	96	103	98	94	99	95	91	82
5.00	108	103	99	106	101	98	101	97	94	85
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 90DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: QC
 Test Date: 2018-11-30

γ Range: -180 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity: 53.0%
 Test Distance: 10.380m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:231.6V I:0.1774A P:39.18W PF:0.9537 Freq:49.99Hz Lamp Flux:4690.12x1 lm		
NAME: P17ES-UC-4040H-1203B-1684014R8	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

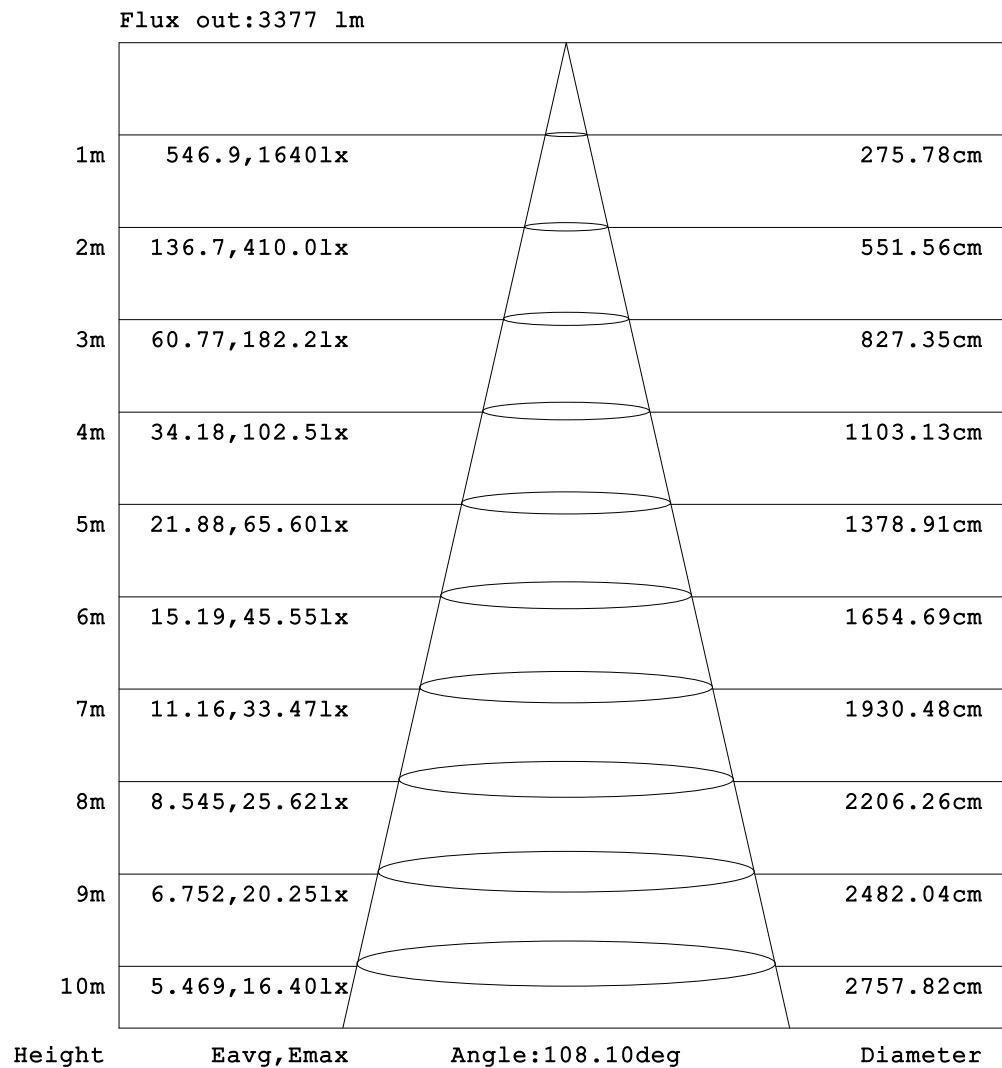


C Range: 0 - 90DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC
Test Date:2018-11-30

γ Range:-180 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:53.0%
Test Distance:10.380m [K=1.0000]
Remarks:

AAI Figure

Test:U:231.6V I:0.1774A P:39.18W PF:0.9537 Freq:49.99Hz Lamp Flux:4690.12x1 lm		
NAME: P17ES-UC-4040H-1203B-1684014R8	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



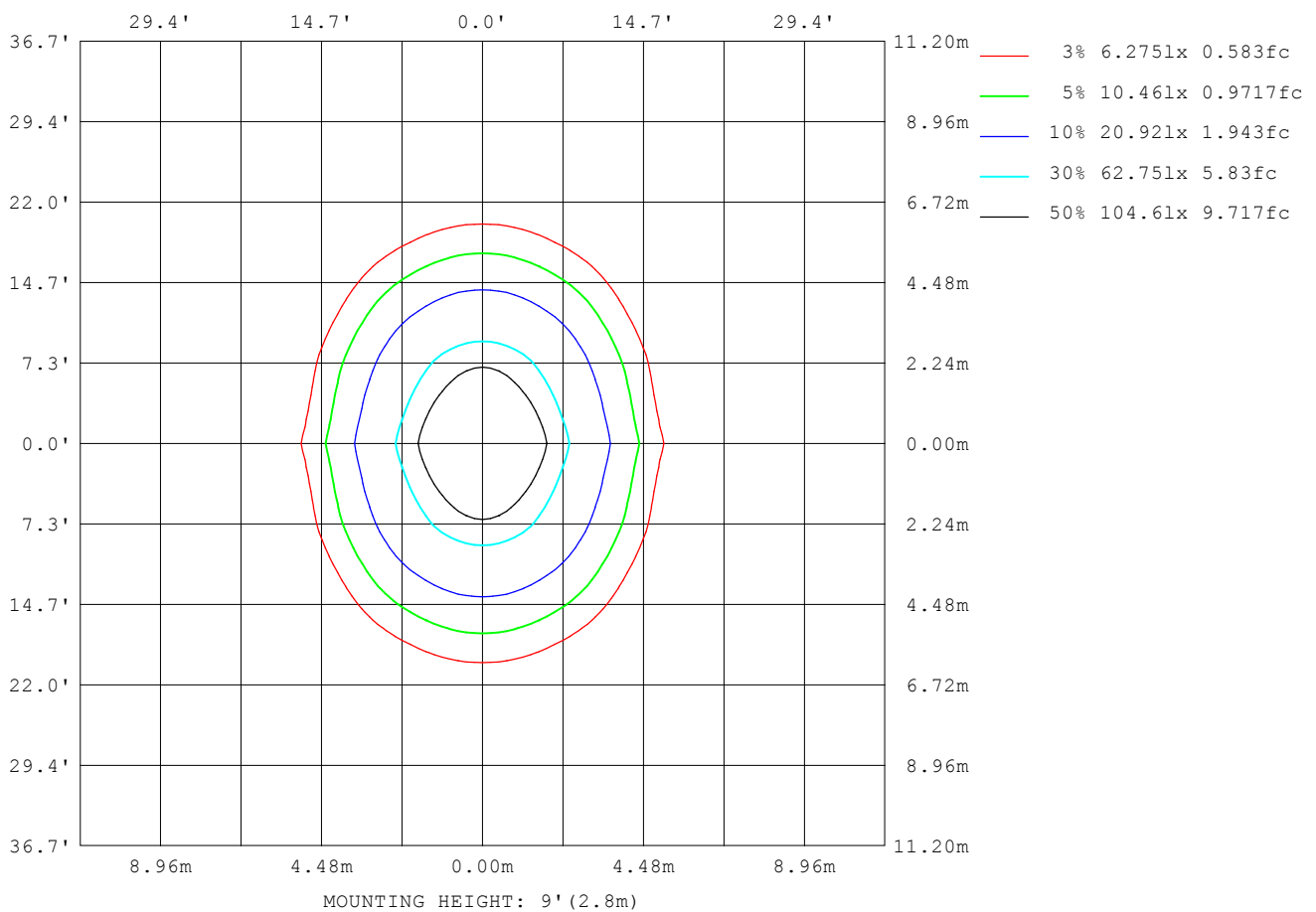
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 90DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:QC
 Test Date:2018-11-30

γ Range:-180 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity:53.0%
 Test Distance:10.380m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:231.6V I:0.1774A P:39.18W PF:0.9537 Freq:49.99Hz Lamp Flux:4690.12x1 lm		
NAME: P17ES-UC-4040H-1203B-1684014R8	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



C Range: 0 - 90DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC
Test Date:2018-11-30

γ Range:-180 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:53.0%
Test Distance:10.380m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:231.6V I:0.1774A P:39.18W PF:0.9537 Freq:49.99Hz Lamp Flux:4690.12x1 lm		
NAME: P17ES-UC-4040H-1203B-1684014R8	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

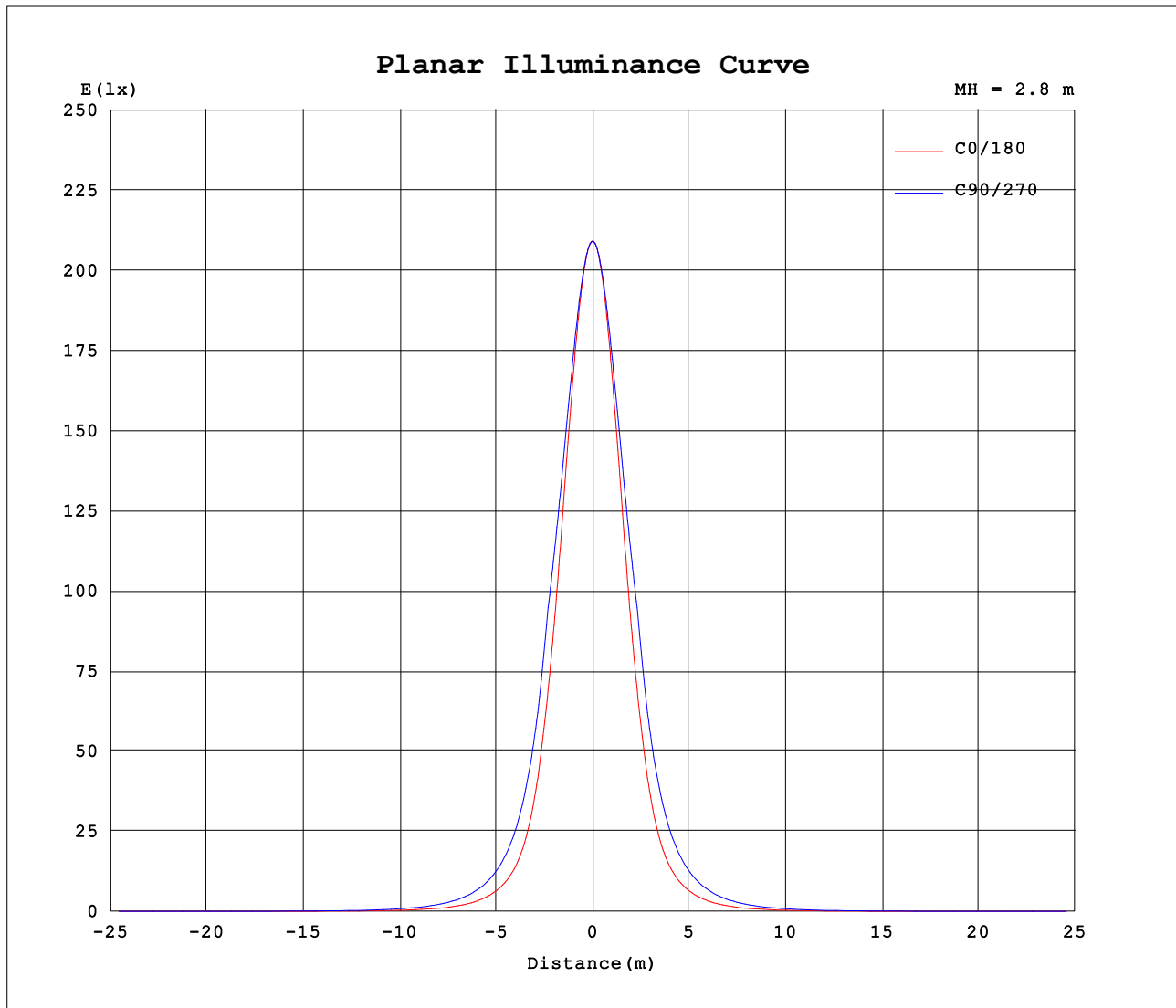
AvgL	cd/m2
L_0~180 (65) av	2232
L_0~180 (75) av	1554
L_0~180 (85) av	1073
L_90~270 (65) av	4552
L_90~270 (75) av	3464
L_90~270 (85) av	3870
L_45 (65) av	3067
L_45 (75) av	2567
L_45 (85) av	2597

Standard: GB/T 29293-2012

C Range: 0 - 90DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:QC
 Test Date:2018-11-30

γ Range:-180 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity:53.0%
 Test Distance:10.380m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 90DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: QC
Test Date: 2018-11-30

γ Range: -180 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity: 53.0%
Test Distance: 10.380m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:231.6V I:0.1774A P:39.18W PF:0.9537 Freq:49.99Hz Lamp Flux:4690.12x1 lm		
NAME: P17ES-UC-4040H-1203B-1684014R8	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	1640	1640	1640	1640	1640	1640	1640	1640	1640	1640	1640	1640	1640	1640	1640	1640	1640	1640	1640
5	1637	1637	1636	1636	1636	1635	1635	1635	1636	1636	1636	1636	1636	1637	1637	1637	1637	1637	1638
10	1626	1624	1623	1621	1621	1620	1620	1620	1621	1623	1624	1626	1628	1629	1631	1632	1633	1634	1634
15	1606	1601	1596	1592	1590	1589	1589	1590	1593	1596	1601	1606	1611	1617	1622	1626	1629	1631	1632
20	1572	1560	1551	1544	1539	1537	1537	1540	1545	1554	1563	1574	1585	1596	1606	1615	1622	1627	1628
25	1516	1498	1483	1472	1465	1462	1463	1469	1478	1491	1508	1527	1547	1567	1586	1602	1615	1623	1626
30	1433	1406	1386	1372	1364	1363	1367	1377	1392	1412	1437	1465	1497	1528	1558	1584	1605	1618	1622
35	1315	1281	1255	1239	1232	1234	1245	1263	1288	1317	1351	1391	1434	1480	1525	1563	1594	1613	1620
40	1165	1125	1097	1080	1074	1080	1098	1125	1162	1206	1254	1306	1363	1424	1484	1537	1580	1607	1616
45	971	933	911	903	905	916	938	973	1021	1079	1144	1212	1263	1303	1344	1380	1408	1426	1432
50	761	728	714	715	728	750	780	818	871	940	992	1039	1078	1117	1156	1194	1223	1240	1247
55	587	559	549	554	570	597	631	673	713	761	814	864	904	939	975	1011	1039	1056	1062
60	453	428	418	423	443	471	503	529	563	604	653	701	740	769	799	830	857	872	877
65	340	322	318	324	339	362	383	406	433	467	508	550	584	607	628	654	676	689	693
70	231	225	234	247	255	262	280	300	322	346	377	410	437	452	463	480	496	505	507
75	145	147	168	180	181	184	194	209	224	239	259	281	297	302	302	308	318	322	323
80	88.8	87.5	105	112	116	119	121	130	136	141	149	159	162	155	143	138	141	139	138
85	33.7	36.9	44.3	52.4	57.1	60.0	58.1	65.9	73.9	81.5	91.4	106	114	115	110	112	119	122	121
90	1.45	3.58	11.4	21.0	30.3	39.0	44.1	51.5	59.3	66.6	75.5	88.3	96.6	98.2	94.7	96.5	103	105	105
95	1.84	2.25	3.66	10.2	17.7	25.5	31.0	38.0	45.3	52.2	60.6	71.7	79.2	81.2	79.0	80.9	86.7	88.7	88.6
100	2.41	2.53	2.68	2.84	5.90	12.6	18.5	25.2	31.8	38.3	46.1	55.4	61.9	64.2	63.2	65.6	70.5	72.2	72.2
105	2.91	2.98	3.08	3.19	3.32	3.46	6.37	12.5	18.6	24.7	31.7	39.3	44.9	47.3	47.6	50.2	54.2	55.7	55.8
110	3.44	3.49	3.59	3.67	3.77	3.90	4.07	4.23	5.40	11.0	17.0	23.0	27.9	30.6	32.1	34.8	38.0	39.2	39.4
115	4.01	4.05	4.23	4.24	4.31	4.44	4.59	4.77	4.95	5.13	5.26	6.45	11.0	14.3	16.8	19.4	21.7	22.8	23.0
120	4.65	4.67	4.81	4.90	4.96	5.06	5.20	5.37	5.55	5.69	5.77	5.93	6.11	6.25	6.37	6.51	6.60	6.62	6.61
125	5.41	5.41	5.51	5.68	5.70	5.78	5.90	6.05	6.18	6.28	6.33	6.51	6.68	6.78	6.93	7.06	7.14	7.18	7.18
130	6.23	6.17	6.26	6.41	6.53	6.59	6.67	6.76	6.80	6.79	6.95	7.12	7.25	7.34	7.50	7.61	7.68	7.71	7.71
135	7.12	7.04	7.09	7.21	7.37	7.42	7.43	7.36	7.36	7.46	7.61	7.75	7.84	7.94	8.07	8.17	8.24	8.27	8.28
140	7.97	7.90	7.89	7.95	8.05	8.08	8.02	8.00	8.08	8.19	8.29	8.36	8.44	8.55	8.64	8.72	8.78	8.81	8.82
145	8.61	8.55	8.50	8.45	8.52	8.60	8.73	8.80	8.85	8.90	8.95	8.99	9.08	9.15	9.23	9.29	9.34	9.38	9.39
150	9.32	9.23	9.20	9.21	9.25	9.31	9.40	9.51	9.60	9.59	9.61	9.66	9.71	9.76	9.81	9.86	9.89	9.91	9.92
155	10.1	10.00	9.95	9.94	9.95	9.97	9.99	10.0	10.1	10.2	10.3	10.3	10.3	10.4	10.4	10.4	10.5	10.5	10.5
160	10.7	10.6	10.6	10.5	10.5	10.5	10.5	10.6	10.6	10.7	10.7	10.8	10.8	10.9	10.9	11.0	11.0	11.0	11.0
165	11.2	11.1	11.1	11.1	11.1	11.0	11.0	11.0	11.1	11.1	11.1	11.1	11.2	11.2	11.2	11.2	11.3	11.3	11.3
170	11.6	11.6	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
175	11.9	11.9	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
180	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0

C Range: 0 - 90DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC
Test Date:2018-11-30

γ Range:-180 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:53.0%
Test Distance:10.380m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:231.6V I:0.1774A P:39.18W PF:0.9537 Freq:49.99Hz Lamp Flux:4690.12x1 lm		
NAME: P17ES-UC-4040H-1203B-1684014R8	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C (DEG) γ (DEG)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185
0	1640	1640	1640	1640	1640	1640	1640	1640	1640	1640	1640	1640	1640	1640	1640	1640	1640	1640	1640
5	1637	1637	1637	1637	1637	1636	1636	1636	1636	1636	1635	1635	1635	1636	1636	1636	1637	1637	1637
10	1634	1633	1632	1631	1629	1628	1626	1624	1623	1621	1620	1620	1620	1621	1621	1623	1624	1626	1624
15	1631	1629	1626	1622	1617	1611	1606	1601	1596	1593	1590	1589	1589	1590	1592	1596	1601	1606	1601
20	1627	1622	1615	1606	1596	1585	1574	1563	1554	1545	1540	1537	1537	1539	1544	1551	1560	1572	1560
25	1623	1615	1602	1586	1567	1547	1527	1508	1491	1478	1469	1463	1462	1465	1472	1483	1498	1516	1498
30	1618	1605	1584	1558	1528	1497	1465	1437	1412	1392	1377	1367	1363	1364	1372	1386	1406	1433	1406
35	1613	1594	1563	1525	1480	1434	1391	1351	1317	1288	1263	1245	1234	1232	1239	1255	1281	1315	1281
40	1607	1580	1537	1484	1424	1363	1306	1254	1206	1162	1125	1098	1080	1074	1080	1097	1125	1165	1125
45	1426	1408	1380	1344	1303	1263	1212	1144	1079	1021	973	938	916	905	903	911	933	971	933
50	1240	1223	1194	1156	1117	1078	1039	992	940	871	818	780	750	728	715	714	728	761	728
55	1056	1039	1011	975	939	904	864	814	761	713	673	631	597	570	554	549	559	587	559
60	872	857	830	799	769	740	701	653	604	563	529	503	471	443	423	418	428	453	428
65	689	676	654	628	607	584	550	508	467	433	406	383	362	339	324	318	322	340	322
70	505	496	480	463	452	437	410	377	346	322	300	280	262	255	247	234	225	231	225
75	322	318	308	302	302	297	281	259	239	224	209	194	184	181	180	168	147	145	147
80	139	141	138	143	155	162	159	149	141	136	130	121	119	116	112	105	87.5	88.8	87.5
85	122	119	112	110	115	114	106	91.4	81.5	73.9	65.9	58.1	60.0	57.1	52.4	44.3	36.9	33.7	36.9
90	105	103	96.5	94.7	98.2	96.6	88.3	75.5	66.6	59.3	51.5	44.1	39.0	30.3	21.0	11.4	3.58	1.45	3.58
95	88.7	86.7	80.9	79.0	81.2	79.2	71.7	60.6	52.2	45.3	38.0	31.0	25.5	17.7	10.2	3.66	2.25	1.84	2.25
100	72.2	70.5	65.6	63.2	64.2	61.9	55.4	46.1	38.3	31.8	25.2	18.5	12.6	5.90	2.84	2.68	2.53	2.41	2.53
105	55.7	54.2	50.2	47.6	47.3	44.9	39.3	31.7	24.7	18.6	12.5	6.37	3.46	3.32	3.19	3.08	2.98	2.91	2.98
110	39.2	38.0	34.8	32.1	30.6	27.9	23.0	17.0	11.0	5.40	4.23	4.07	3.90	3.77	3.67	3.59	3.49	3.44	3.49
115	22.8	21.7	19.4	16.8	14.3	11.0	6.45	5.26	5.13	4.95	4.77	4.59	4.44	4.31	4.24	4.23	4.05	4.01	4.05
120	6.62	6.60	6.51	6.37	6.25	6.11	5.93	5.77	5.69	5.55	5.37	5.20	5.06	4.96	4.90	4.81	4.67	4.65	4.67
125	7.18	7.14	7.06	6.93	6.78	6.68	6.51	6.33	6.28	6.18	6.05	5.90	5.78	5.70	5.68	5.51	5.41	5.41	5.41
130	7.71	7.68	7.61	7.50	7.34	7.25	7.12	6.95	6.79	6.80	6.76	6.67	6.59	6.53	6.41	6.26	6.17	6.23	6.17
135	8.27	8.24	8.17	8.07	7.94	7.84	7.75	7.61	7.46	7.36	7.36	7.43	7.42	7.37	7.21	7.09	7.04	7.12	7.04
140	8.81	8.78	8.72	8.64	8.55	8.44	8.36	8.29	8.19	8.08	8.00	8.02	8.08	8.05	7.95	7.89	7.90	7.97	7.90
145	9.38	9.34	9.29	9.23	9.15	9.08	8.99	8.95	8.90	8.85	8.80	8.73	8.60	8.52	8.45	8.50	8.55	8.61	8.55
150	9.91	9.89	9.86	9.81	9.76	9.71	9.66	9.61	9.59	9.60	9.51	9.40	9.31	9.25	9.21	9.20	9.23	9.32	9.23
155	10.5	10.5	10.4	10.4	10.4	10.3	10.3	10.3	10.2	10.1	10.0	9.99	9.97	9.95	9.94	9.95	10.00	10.1	10.00
160	11.0	11.0	11.0	10.9	10.9	10.8	10.8	10.7	10.7	10.6	10.6	10.5	10.5	10.5	10.5	10.6	10.6	10.7	10.6
165	11.3	11.3	11.2	11.2	11.2	11.2	11.1	11.1	11.1	11.1	11.0	11.0	11.0	11.1	11.1	11.1	11.1	11.2	11.1
170	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.6	11.6	11.6
175	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.9	11.9	11.9
180	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0

C Range: 0 - 90DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC
Test Date:2018-11-30

γ Range:-180 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:53.0%
Test Distance:10.380m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:231.6V I:0.1774A P:39.18W PF:0.9537 Freq:49.99Hz Lamp Flux:4690.12x1 lm																		
NAME: P17ES-UC-4040H-1203B-1684014R8									TYPE:					WEIGHT:				
SPEC.:									DIM.:					SERIAL No.:				
MFR.: EVERFINE									SUR.:					Shielding Angle:				

Table--3

UNIT: cd

γ (DEG) \ C (DEG)																			
	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	1640	1640	1640	1640	1640	1640	1640	1640	1640	1640	1640	1640	1640	1640	1640	1640	1640	1640	1640
5	1636	1636	1636	1635	1635	1635	1636	1636	1636	1636	1636	1637	1637	1637	1637	1637	1638	1637	1637
10	1623	1621	1621	1620	1620	1620	1621	1623	1624	1626	1628	1629	1631	1632	1633	1634	1634	1634	1633
15	1596	1592	1590	1589	1589	1590	1593	1596	1601	1606	1611	1617	1622	1626	1629	1631	1632	1631	1629
20	1551	1544	1539	1537	1537	1540	1545	1554	1563	1574	1585	1596	1606	1615	1622	1627	1628	1627	1622
25	1483	1472	1465	1462	1463	1469	1478	1491	1508	1527	1547	1567	1586	1602	1615	1623	1626	1623	1615
30	1386	1372	1364	1363	1367	1377	1392	1412	1437	1465	1497	1528	1558	1584	1605	1618	1622	1618	1605
35	1255	1239	1232	1234	1245	1263	1288	1317	1351	1391	1434	1480	1525	1563	1594	1613	1620	1613	1594
40	1097	1080	1074	1080	1098	1125	1162	1206	1254	1306	1363	1424	1484	1537	1580	1607	1616	1607	1580
45	911	903	905	916	938	973	1021	1079	1144	1212	1263	1303	1344	1380	1408	1426	1432	1426	1408
50	714	715	728	750	780	818	871	940	992	1039	1078	1117	1156	1194	1223	1240	1247	1240	1223
55	549	554	570	597	631	673	713	761	814	864	904	939	975	1011	1039	1056	1062	1056	1039
60	418	423	443	471	503	529	563	604	653	701	740	769	799	830	857	872	877	872	857
65	318	324	339	362	383	406	433	467	508	550	584	607	628	654	676	689	693	689	676
70	234	247	255	262	280	300	322	346	377	410	437	452	463	480	496	505	507	505	496
75	168	180	181	184	194	209	224	239	259	281	297	302	302	308	318	322	323	322	318
80	105	112	116	119	121	130	136	141	149	159	162	155	143	138	141	139	138	139	141
85	44.3	52.4	57.1	60.0	58.1	65.9	73.9	81.5	91.4	106	114	115	110	112	119	122	121	122	119
90	11.4	21.0	30.3	39.0	44.1	51.5	59.3	66.6	75.5	88.3	96.6	98.2	94.7	96.5	103	105	105	105	103
95	3.66	10.2	17.7	25.5	31.0	38.0	45.3	52.2	60.6	71.7	79.2	81.2	79.0	80.9	86.7	88.7	88.6	88.7	86.7
100	2.68	2.84	5.90	12.6	18.5	25.2	31.8	38.3	46.1	55.4	61.9	64.2	63.2	65.6	70.5	72.2	72.2	72.2	70.5
105	3.08	3.19	3.32	3.46	6.37	12.5	18.6	24.7	31.7	39.3	44.9	47.3	47.6	50.2	54.2	55.7	55.8	55.7	54.2
110	3.59	3.67	3.77	3.90	4.07	4.23	5.40	11.0	17.0	23.0	27.9	30.6	32.1	34.8	38.0	39.2	39.4	39.2	38.0
115	4.23	4.24	4.31	4.44	4.59	4.77	4.95	5.13	5.26	6.45	11.0	14.3	16.8	19.4	21.7	22.8	23.0	22.8	21.7
120	4.81	4.90	4.96	5.06	5.20	5.37	5.55	5.69	5.77	5.93	6.11	6.25	6.37	6.51	6.60	6.62	6.61	6.62	6.60
125	5.51	5.68	5.70	5.78	5.90	6.05	6.18	6.28	6.33	6.51	6.68	6.78	6.93	7.06	7.14	7.18	7.18	7.18	7.14
130	6.26	6.41	6.53	6.59	6.67	6.76	6.80	6.79	6.95	7.12	7.25	7.34	7.50	7.61	7.68	7.71	7.71	7.71	7.68
135	7.09	7.21	7.37	7.42	7.43	7.36	7.36	7.46	7.61	7.75	7.84	7.94	8.07	8.17	8.24	8.27	8.28	8.27	8.24
140	7.89	7.95	8.05	8.08	8.02	8.00	8.08	8.19	8.29	8.36	8.44	8.55	8.64	8.72	8.78	8.81	8.82	8.81	8.78
145	8.50	8.45	8.52	8.60	8.73	8.80	8.85	8.90	8.95	8.99	9.08	9.15	9.23	9.29	9.34	9.38	9.39	9.38	9.34
150	9.20	9.21	9.25	9.31	9.40	9.51	9.60	9.59	9.61	9.66	9.71	9.76	9.81	9.86	9.89	9.91	9.92	9.91	9.89
155	9.95	9.94	9.95	9.97	9.99	10.0	10.1	10.2	10.3	10.3	10.3	10.4	10.4	10.4	10.5	10.5	10.5	10.5	10.5
160	10.6	10.5	10.5	10.5	10.5	10.6	10.6	10.7	10.7	10.8	10.8	10.9	10.9	11.0	11.0	11.0	11.0	11.0	11.0
165	11.1	11.1	11.1	11.0	11.0	11.0	11.1	11.1	11.1	11.1	11.2	11.2	11.2	11.2	11.3	11.3	11.3	11.3	11.3
170	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
175	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
180	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0

C Range: 0 - 90DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC
Test Date:2018-11-30

γ Range:-180 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:53.0%
Test Distance:10.380m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:231.6V I:0.1774A P:39.18W PF:0.9537 Freq:49.99Hz Lamp Flux:4690.12x1 lm																	
NAME: P17ES-UC-4040H-1203B-1684014R8									TYPE:						WEIGHT:		
SPEC.:									DIM.:						SERIAL No.:		
MFR.: EVERFINE									SUR.:						Shielding Angle:		

Table--4

UNIT: cd

C (DEG) γ (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	1640	1640	1640	1640	1640	1640	1640	1640	1640	1640	1640	1640	1640	1640	1640				
5	1637	1637	1637	1636	1636	1636	1636	1636	1635	1635	1635	1636	1636	1636	1637				
10	1632	1631	1629	1628	1626	1624	1623	1621	1620	1620	1620	1621	1621	1623	1624				
15	1626	1622	1617	1611	1606	1601	1596	1593	1590	1589	1589	1590	1592	1596	1601				
20	1615	1606	1596	1585	1574	1563	1554	1545	1540	1537	1537	1539	1544	1551	1560				
25	1602	1586	1567	1547	1527	1508	1491	1478	1469	1463	1462	1465	1472	1483	1498				
30	1584	1558	1528	1497	1465	1437	1412	1392	1377	1367	1363	1364	1372	1386	1406				
35	1563	1525	1480	1434	1391	1351	1317	1288	1263	1245	1234	1232	1239	1255	1281				
40	1537	1484	1424	1363	1306	1254	1206	1162	1125	1098	1080	1074	1080	1097	1125				
45	1380	1344	1303	1263	1212	1144	1079	1021	973	938	916	905	903	911	933				
50	1194	1156	1117	1078	1039	992	940	871	818	780	750	728	715	714	728				
55	1011	975	939	904	864	814	761	713	673	631	597	570	554	549	559				
60	830	799	769	740	701	653	604	563	529	503	471	443	423	418	428				
65	654	628	607	584	550	508	467	433	406	383	362	339	324	318	322				
70	480	463	452	437	410	377	346	322	300	280	262	255	247	234	225				
75	308	302	302	297	281	259	239	224	209	194	184	181	180	168	147				
80	138	143	155	162	159	149	141	136	130	121	119	116	112	105	87.5				
85	112	110	115	114	106	91.4	81.5	73.9	65.9	58.1	60.0	57.1	52.4	44.3	36.9				
90	96.5	94.7	98.2	96.6	88.3	75.5	66.6	59.3	51.5	44.1	39.0	30.3	21.0	11.4	3.58				
95	80.9	79.0	81.2	79.2	71.7	60.6	52.2	45.3	38.0	31.0	25.5	17.7	10.2	3.66	2.25				
100	65.6	63.2	64.2	61.9	55.4	46.1	38.3	31.8	25.2	18.5	12.6	5.90	2.84	2.68	2.53				
105	50.2	47.6	47.3	44.9	39.3	31.7	24.7	18.6	12.5	6.37	3.46	3.32	3.19	3.08	2.98				
110	34.8	32.1	30.6	27.9	23.0	17.0	11.0	5.40	4.23	4.07	3.90	3.77	3.67	3.59	3.49				
115	19.4	16.8	14.3	11.0	6.45	5.26	5.13	4.95	4.77	4.59	4.44	4.31	4.24	4.23	4.05				
120	6.51	6.37	6.25	6.11	5.93	5.77	5.69	5.55	5.37	5.20	5.06	4.96	4.90	4.81	4.67				
125	7.06	6.93	6.78	6.68	6.51	6.33	6.28	6.18	6.05	5.90	5.78	5.70	5.68	5.51	5.41				
130	7.61	7.50	7.34	7.25	7.12	6.95	6.79	6.80	6.76	6.67	6.59	6.53	6.41	6.26	6.17				
135	8.17	8.07	7.94	7.84	7.75	7.61	7.46	7.36	7.36	7.43	7.42	7.37	7.21	7.09	7.04				
140	8.72	8.64	8.55	8.44	8.36	8.29	8.19	8.08	8.00	8.02	8.08	8.05	7.95	7.89	7.90				
145	9.29	9.23	9.15	9.08	8.99	8.95	8.90	8.85	8.80	8.73	8.60	8.52	8.45	8.50	8.55				
150	9.86	9.81	9.76	9.71	9.66	9.61	9.59	9.60	9.51	9.40	9.31	9.25	9.21	9.20	9.23				
155	10.4	10.4	10.4	10.3	10.3	10.3	10.2	10.1	10.0	9.99	9.97	9.95	9.94	9.95	10.00				
160	11.0	10.9	10.9	10.8	10.8	10.7	10.7	10.6	10.6	10.5	10.5	10.5	10.5	10.6	10.6				
165	11.2	11.2	11.2	11.2	11.1	11.1	11.1	11.1	11.0	11.0	11.0	11.1	11.1	11.1	11.1				
170	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.6				
175	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.9				
180	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0				

C Range: 0 - 90DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC
Test Date:2018-11-30

γ Range:-180 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:53.0%
Test Distance:10.380m [K=1.0000]
Remarks:

[illegible]

```

✓ Range:-180 - 180DEG
✓ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:53.0%
Test Distance:10.380m [K=1.0000]
Remarks:

```

Photometric Data Table [cd]

5.5	0	0	0	0	0	0	0	0	0	0
8.0	0	0	0	0	0	0	0	0	0	0
10.5	0	0	0	0	0	0	0	0	0	0
13.0	0	0	0	0	0	0	0	0	0	0
15.5	0	0	0	0	0	0	0	0	0	0
18.0	0	0	0	0	0	0	0	0	0	0
20.5	0	0	0	0	0	0	0	0	0	0
23.0	0	0	0	0	0	0	0	0	0	0
25.5	0	0	0	0	0	0	0	0	0	0
28.0	0	0	0	0	0	0	0	0	0	0
30.5	0	0	0	0	0	0	0	0	0	0
33.0	0	0	0	0	0	0	0	0	0	0
35.5	0	0	0	0	0	0	0	0	0	0
38.0	0	0	0	0	0	0	0	0	0	0
40.5	0	0	0	0	0	0	0	0	0	0
43.0	0	0	0	0	0	0	0	0	0	0
45.5	0	0	0	0	0	0	0	0	0	0
48.0	0	0	0	0	0	0	0	0	0	0
50.5	0	0	0	0	0	0	0	0	0	0
53.0	0	0	0	0	0	0	0	0	0	0
55.5	0	0	0	0	0	0	0	0	0	0
58.0	0	0	0	0	0	0	0	0	0	0
60.5	0	0	0	0	0	0	0	0	0	0
63.0	0	0	0	0	0	0	0	0	0	0
65.5	0	0	0	0	0	0	0	0	0	0
68.0	0	0	0	0	0	0	0	0	0	0
70.5	0	0	0	0	0	0	0	0	0	0
73.0	0	0	0	0	0	0	0	0	0	0
75.5	0	0	0	0	0	0	0	0	0	0
78.0	0	0	0	0	0	0	0	0	0	0
80.5	0	0	0	0	0	0	0	0	0	0
83.0	0	0	0	0	0	0	0	0	0	0
85.5	0	0	0	0	0	0	0	0	0	0
88.0	0	0	0	0	0	0	0	0	0	0
90.5	0	0	0	0	0	0	0	0	0	0
93.0	0	0	0	0	0	0	0	0	0	0
95.5	0	0	0	0	0	0	0	0	0	0
98.0	0	0	0	0	0	0	0	0	0	0
100.5	0	0	0	0	0	0	0	0	0	0
103.0	0	0	0	0	0	0	0	0	0	0
105.5	0	0	0	0	0	0	0	0	0	0
108.0	0	0	0	0	0	0	0	0	0	0
110.5	0	0	0	0	0	0	0	0	0	0
113.0	0	0	0	0	0	0	0	0	0	0
115.5	0	0	0	0	0	0	0	0	0	0
118.0	0	0	0	0	0	0	0	0	0	0
120.5	0	0	0	0	0	0	0	0	0	0
123.0	0	0	0	0	0	0	0	0	0	0
125.5	0	0	0	0	0	0	0	0	0	0
128.0	0	0	0	0	0	0	0	0	0	0
130.5	0	0	0	0	0	0	0	0	0	0
133.0	0	0	0	0	0	0	0	0	0	0
135.5	0	0	0	0	0	0	0	0	0	0
138.0	0	0	0	0	0	0	0	0	0	0
140.5	0	0	0	0	0	0	0	0	0	0
143.0	0	0	0	0	0	0	0	0	0	0
145.5	0	0	0	0	0	0	0	0	0	0
148.0	0	0	0	0	0	0	0	0	0	0
150.5	0	0	0	0	0	0	0	0	0	0
153.0	0	0	0	0	0	0	0	0	0	0
155.5	0	0	0	0	0	0	0	0	0	0
158.0	0	0	0	0	0	0	0	0	0	0
160.5	0	0	0	0	0	0	0	0	0	0
163.0	0	0	0	0	0	0	0	0	0	0
165.5	0	0	0	0	0	0	0	0	0	0
168.0	0	0	0	0	0	0	0	0	0	0
170.5	0	0	0	0	0	0	0	0	0	0
173.0	0	0	0	0	0	0	0	0	0	0
175.5	0	0	0	0	0	0	0	0	0	0
178.0	0	0	0	0	0	0	0	0	0	0
0.0	0	0	0	0	0	0	0	0	0	0
G/C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	10.0
0.0	0	0	0	0	0	0	0	0	0	0
0.0	0	0	0	0	0	0	0	0	0	0

C Range: 0 - 90DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: QC
 Test Date: 2018-11-30

v Range: -180 - 180DEG
 v Interval: 0.5DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity: 53.0%
 Test Distance: 10.380m [K=1.0000]
 Remarks:

[illegible]

```

γ Range:-180 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:53.0%
Test Distance:10.380m [K=1.0000]
Remarks:

```

Photometric Data Table [cd]

13.0	0	0	0	0	0	0	0	1616	1612	1609
15.5	0	0	0	0	0	0	0	1603	1597	1592
18.0	0	0	0	0	0	0	0	1588	1579	1571
20.5	0	0	0	0	0	0	0	1567	1555	1545
23.0	0	0	0	0	0	0	0	1541	1526	1513
25.5	0	0	0	0	0	0	0	1509	1490	1475
28.0	0	0	0	0	0	0	0	1470	1447	1429
30.5	0	0	0	0	0	0	0	1422	1395	1375
33.0	0	0	0	0	0	0	0	1366	1335	1311
35.5	0	0	0	0	0	0	0	1301	1266	1240
38.0	0	0	0	0	0	0	0	1229	1190	1163
40.5	0	0	0	0	0	0	0	1148	1108	1080
43.0	0	0	0	0	0	0	0	1054	1015	989.1
45.5	0	0	0	0	0	0	0	949.0	911.6	890.6
48.0	0	0	0	0	0	0	0	841.6	806.3	790.6
50.5	0	0	0	0	0	0	0	741.6	709.2	696.2
53.0	0	0	0	0	0	0	0	651.5	622.2	610.9
55.5	0	0	0	0	0	0	0	572.1	544.1	534.1
58.0	0	0	0	0	0	0	0	502.1	475.8	465.7
60.5	0	0	0	0	0	0	0	441.0	416.7	407.0
63.0	0	0	0	0	0	0	0	385.0	363.3	355.9
65.5	0	0	0	0	0	0	0	328.2	311.7	309.2
68.0	0	0	0	0	0	0	0	272.2	261.9	265.7
70.5	0	0	0	0	0	0	0	221.6	216.8	226.2
73.0	0	0	0	0	0	0	0	176.4	176.5	192.2
75.5	0	0	0	0	0	0	0	137.9	140.5	162.2
78.0	0	0	0	0	0	0	0	108.1	108.8	134.3
80.5	0	0	0	0	0	0	0	83.93	82.74	97.52
83.0	0	0	0	0	0	0	0	57.38	57.99	65.49
85.5	0	0	0	0	0	0	0	28.02	31.61	39.27
88.0	0	0	0	0	0	0	0	5.718	10.83	16.91
90.5	0	0	0	0	0	0	0	1.601	3.375	10.60
93.0	0	0	0	0	0	0	0	1.744	2.256	6.761
95.5	0	0	0	0	0	0	0	1.908	2.262	2.838
98.0	0	0	0	0	0	0	0	2.218	2.389	2.548
100.5	0	0	0	0	0	0	0	2.457	2.563	2.717
103.0	0	0	0	0	0	0	0	2.702	2.792	2.904
105.5	0	0	0	0	0	0	0	2.966	3.025	3.124
108.0	0	0	0	0	0	0	0	3.231	3.274	3.378
110.5	0	0	0	0	0	0	0	3.496	3.538	3.647
113.0	0	0	0	0	0	0	0	3.778	3.812	3.960
115.5	0	0	0	0	0	0	0	4.068	4.107	4.300
118.0	0	0	0	0	0	0	0	4.379	4.412	4.566
120.5	0	0	0	0	0	0	0	4.727	4.733	4.872
123.0	0	0	0	0	0	0	0	5.098	5.093	5.219
125.5	0	0	0	0	0	0	0	5.489	5.483	5.580
128.0	0	0	0	0	0	0	0	5.896	5.867	5.950
130.5	0	0	0	0	0	0	0	6.315	6.257	6.337
133.0	0	0	0	0	0	0	0	6.751	6.686	6.748
135.5	0	0	0	0	0	0	0	7.209	7.128	7.172
138.0	0	0	0	0	0	0	0	7.655	7.570	7.589
140.5	0	0	0	0	0	0	0	8.047	7.971	7.963
143.0	0	0	0	0	0	0	0	8.415	8.338	8.305
145.5	0	0	0	0	0	0	0	8.655	8.596	8.549
148.0	0	0	0	0	0	0	0	8.998	8.903	8.879
150.5	0	0	0	0	0	0	0	9.406	9.307	9.277
153.0	0	0	0	0	0	0	0	9.795	9.701	9.663
155.5	0	0	0	0	0	0	0	10.15	10.07	10.02
158.0	0	0	0	0	0	0	0	10.46	10.38	10.32
160.5	0	0	0	0	0	0	0	10.71	10.66	10.61
163.0	0	0	0	0	0	0	0	10.97	10.94	10.90
165.5	0	0	0	0	0	0	0	11.21	11.20	11.16
168.0	0	0	0	0	0	0	0	11.43	11.43	11.39
170.5	0	0	0	0	0	0	0	11.61	11.61	11.59
173.0	0	0	0	0	0	0	0	11.76	11.77	11.74
175.5	0	0	0	0	0	0	0	11.87	11.88	11.86
178.0	0	0	0	0	0	0	0	11.94	11.95	11.94
0.0	0	0	0	0	0	0	0	0	0	0
G/C	15.0	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0
0.0	0	0	0	0	0	0	0	0	0	0
0.0	0	0	0	0	0	0	0	0	0	0
0.0	0	0	0	0	0	0	0	0	0	0
0.0	0	0	0	0	0	0	0	0	0	0
0.0	0	0	0	0	0	0	0	0	0	0

C Range: 0 - 90DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: QC
 Test Date: 2018-11-30

v Range: -180 - 180DEG
 v Interval: 0.5DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity: 53.0%
 Test Distance: 10.380m [K=1.0000]
 Remarks:

[illegible]

```

✓ Range:-180 - 180DEG
✓ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:53.0%
Test Distance:10.380m [K=1.0000]
Remarks:

```

Photometric Data Table [cd]

20.5	1538	1532	1530	1530	1534	1540	1548	1558	1570	1582
23.0	1504	1497	1494	1495	1500	1508	1518	1532	1547	1564
25.5	1464	1456	1453	1455	1461	1470	1484	1501	1521	1543
28.0	1416	1408	1406	1409	1416	1429	1446	1467	1492	1518
30.5	1360	1352	1351	1356	1367	1382	1403	1429	1459	1491
33.0	1296	1288	1289	1297	1311	1332	1357	1387	1422	1461
35.5	1224	1217	1220	1231	1250	1276	1307	1342	1383	1428
38.0	1146	1139	1144	1159	1183	1215	1252	1294	1341	1393
40.5	1063	1058	1064	1082	1111	1149	1194	1243	1297	1355
43.0	976.7	974.2	982.2	1002	1035	1079	1132	1190	1250	1316
45.5	884.2	887.3	899.8	921.9	957.3	1006	1066	1132	1202	1244
48.0	788.4	798.2	816.9	842.4	879.2	930.9	997.3	1067	1112	1151
50.5	697.1	710.9	734.1	764.2	802.8	856.5	921.6	973.7	1021	1060
53.0	614.6	629.4	655.5	688.5	729.2	780.7	830.3	883.5	932.3	972.2
55.5	539.8	556.5	583.5	617.3	659.1	697.1	744.5	797.5	846.7	886.9
58.0	471.9	490.8	518.5	552.8	584.6	620.0	664.4	715.6	764.5	804.2
60.5	411.4	431.0	460.1	490.1	515.5	548.8	589.5	637.6	685.2	723.6
63.0	360.0	376.6	407.2	428.2	452.4	482.7	519.3	563.8	608.7	645.1
65.5	315.1	330.0	350.6	371.5	394.3	421.1	453.8	494.2	535.4	569.0
68.0	275.6	289.3	298.9	319.1	340.4	364.2	392.6	427.9	464.9	495.0
70.5	240.6	247.0	253.5	270.5	290.8	311.2	334.9	365.0	397.1	422.7
73.0	209.9	208.9	213.2	226.4	244.4	261.2	280.6	304.9	331.8	352.1
75.5	173.3	173.8	176.8	185.8	201.0	214.7	229.1	247.4	268.7	283.3
78.0	138.7	140.7	143.6	148.9	160.6	170.4	179.6	192.1	207.3	215.6
80.5	105.7	109.5	112.4	114.8	122.0	127.8	132.1	138.4	147.4	149.0
83.0	74.91	79.84	83.12	82.58	85.60	87.03	87.86	98.11	112.7	121.4
85.5	47.03	51.56	54.20	56.69	64.33	72.39	79.90	89.81	103.9	112.5
88.0	26.04	35.68	45.27	49.69	56.92	64.96	72.38	81.75	95.18	103.6
90.5	19.87	28.92	37.67	42.78	50.10	57.82	65.14	73.98	86.61	94.82
93.0	14.36	22.59	30.94	36.18	43.14	50.73	57.79	66.47	78.34	86.13
95.5	9.119	16.56	24.20	29.69	36.78	43.92	50.79	59.09	70.09	77.46
98.0	3.837	10.67	17.68	23.37	30.25	37.17	43.87	51.81	61.88	68.81
100.5	2.867	4.684	11.33	17.27	23.93	30.49	36.90	44.65	53.83	60.24
103.0	3.037	3.166	5.105	11.18	17.63	23.91	30.11	37.48	45.78	51.71
105.5	3.235	3.359	3.497	5.163	11.25	17.30	23.30	30.22	37.64	43.17
108.0	3.461	3.581	3.713	3.874	4.893	10.69	16.46	22.95	29.51	34.64
110.5	3.722	3.823	3.953	4.116	4.281	4.461	4.583	15.51	21.33	26.16
113.0	4.008	4.083	4.212	4.373	4.543	4.726	4.907	7.821	13.09	17.70
115.5	4.300	4.370	4.500	4.647	4.823	5.008	5.188	5.310	5.432	9.293
118.0	4.617	4.691	4.806	4.948	5.119	5.301	5.466	5.583	5.704	5.889
120.5	4.977	5.034	5.130	5.270	5.436	5.613	5.743	5.824	5.983	6.167
123.0	5.359	5.393	5.483	5.614	5.768	5.934	6.040	6.090	6.276	6.450
125.5	5.755	5.779	5.859	5.980	6.119	6.238	6.333	6.388	6.574	6.738
128.0	6.110	6.192	6.254	6.358	6.478	6.548	6.570	6.694	6.872	7.025
130.5	6.491	6.621	6.671	6.743	6.824	6.862	6.856	7.016	7.179	7.309
133.0	6.887	7.062	7.101	7.121	7.148	7.147	7.188	7.349	7.492	7.603
135.5	7.291	7.446	7.495	7.503	7.417	7.421	7.535	7.678	7.808	7.893
138.0	7.676	7.787	7.864	7.830	7.727	7.773	7.897	8.015	8.115	8.189
140.5	8.017	8.114	8.115	8.071	8.079	8.158	8.259	8.355	8.424	8.498
143.0	8.279	8.344	8.343	8.428	8.474	8.541	8.618	8.695	8.738	8.818
145.5	8.508	8.578	8.668	8.801	8.883	8.924	8.971	9.012	9.059	9.140
148.0	8.887	8.942	9.028	9.140	9.266	9.303	9.312	9.336	9.393	9.456
150.5	9.283	9.320	9.382	9.466	9.563	9.667	9.658	9.680	9.728	9.772
153.0	9.657	9.677	9.718	9.766	9.826	9.904	9.996	10.03	10.05	10.08
155.5	10.00	10.01	10.02	10.04	10.09	10.16	10.24	10.32	10.37	10.39
158.0	10.29	10.29	10.30	10.32	10.36	10.42	10.48	10.54	10.60	10.67
160.5	10.58	10.57	10.58	10.59	10.62	10.66	10.70	10.75	10.80	10.85
163.0	10.87	10.85	10.85	10.85	10.86	10.88	10.91	10.95	10.99	11.03
165.5	11.13	11.11	11.10	11.09	11.10	11.11	11.12	11.14	11.17	11.19
168.0	11.36	11.34	11.33	11.32	11.31	11.31	11.32	11.32	11.33	11.35
170.5	11.56	11.54	11.53	11.52	11.51	11.50	11.50	11.50	11.50	11.50
173.0	11.72	11.71	11.69	11.68	11.67	11.67	11.66	11.66	11.65	11.65
175.5	11.85	11.84	11.83	11.82	11.81	11.80	11.80	11.79	11.78	11.78
178.0	11.93	11.93	11.92	11.92	11.91	11.90	11.90	11.90	11.89	11.89
0.0	0	0	0	0	0	0	0	0	0	0
G/C	65.0	70.0	75.0	80.0	85.0	90.0	95.0			
0.0	0	0	0	0	0	0	0			
0.0	0	0	0	0	0	0	0			
0.0	0	0	0	0	0	0	0			
0.0	0	0	0	0	0	0	0			
0.0	0	0	0	0	0	0	0			
0.0	0	0	0	0	0	0	0			
0.0	0	0	0	0	0	0	0			
0.0	0	0	0	0	0	0	0			

C Range: 0 - 90DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:QC
 Test Date:2018-11-30

v Range:-180 - 180DEG
 v Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity:53.0%
 Test Distance:10.380m [K=1.0000]
 Remarks:

[illegible]

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✓ Range:-180 - 180DEG
✓ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:53.0%
Test Distance:10.380m [K=1.0000]
Remarks:

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Photometric Data Table [cd]

28.0	1545	1570	1592	1609	1620	1624	1620
30.5	1524	1555	1582	1604	1617	1622	1617
33.0	1501	1539	1572	1598	1615	1621	1615
35.5	1475	1521	1561	1592	1612	1620	1612
38.0	1447	1501	1548	1586	1609	1618	1609
40.5	1417	1479	1535	1576	1592	1598	1592
43.0	1380	1420	1456	1483	1500	1506	1500
45.5	1284	1325	1362	1390	1407	1414	1407
48.0	1190	1231	1268	1297	1314	1321	1314
50.5	1098	1138	1175	1204	1222	1228	1222
53.0	1009	1047	1083	1112	1130	1136	1130
55.5	921.4	956.9	992.4	1021	1038	1044	1038
58.0	836.1	868.5	902.1	929.5	945.6	951.2	945.6
60.5	752.8	781.5	812.6	838.5	853.5	858.6	853.5
63.0	671.3	696.0	723.9	748.1	761.8	766.3	761.8
65.5	591.7	611.7	636.1	658.0	670.2	674.0	670.2
68.0	513.6	528.7	548.9	568.2	578.4	581.5	578.4
70.5	436.9	446.7	462.3	478.6	486.7	489.0	486.7
73.0	361.5	365.7	376.3	389.3	395.3	396.6	395.3
75.5	287.2	285.6	290.9	300.3	303.9	304.3	303.9
78.0	213.7	206.0	205.9	211.6	212.5	211.8	212.5
80.5	141.0	127.0	126.4	134.3	136.5	136.2	136.5
83.0	121.8	116.7	118.4	126.0	128.3	128.0	128.3
85.5	113.4	108.9	110.5	117.7	120.0	119.8	120.0
88.0	105.0	101.0	102.7	109.6	111.8	111.6	111.8
90.5	96.51	93.14	94.92	101.4	103.5	103.4	103.5
93.0	87.99	85.29	87.14	93.23	95.28	95.21	95.28
95.5	79.47	77.42	79.41	85.06	87.05	87.00	87.05
98.0	70.97	69.53	71.73	76.98	78.79	78.80	78.79
100.5	62.49	61.66	64.05	68.88	70.53	70.61	70.53
103.0	54.02	53.84	56.35	60.72	62.30	62.40	62.30
105.5	45.62	46.02	48.67	52.58	54.07	54.19	54.07
108.0	37.28	38.23	40.99	44.49	45.82	45.99	45.82
110.5	29.00	30.53	33.29	36.37	37.58	37.79	37.58
113.0	20.81	22.87	25.56	28.21	29.35	29.59	29.35
115.5	12.74	15.24	17.80	20.04	21.12	21.39	21.12
118.0	6.038	7.656	10.01	11.87	12.89	13.18	12.89
120.5	6.301	6.422	6.567	6.651	6.676	6.668	6.676
123.0	6.572	6.696	6.837	6.925	6.954	6.952	6.954
125.5	6.837	6.986	7.111	7.198	7.230	7.233	7.230
128.0	7.112	7.271	7.388	7.465	7.498	7.500	7.498
130.5	7.401	7.555	7.664	7.737	7.769	7.771	7.769
133.0	7.696	7.839	7.944	8.016	8.049	8.055	8.049
135.5	8.006	8.125	8.222	8.292	8.327	8.336	8.327
138.0	8.311	8.414	8.500	8.563	8.595	8.603	8.595
140.5	8.613	8.702	8.781	8.838	8.866	8.873	8.866
143.0	8.914	8.993	9.067	9.120	9.151	9.158	9.151
145.5	9.215	9.285	9.349	9.398	9.430	9.439	9.430
148.0	9.517	9.576	9.629	9.671	9.697	9.705	9.697
150.5	9.819	9.871	9.915	9.948	9.969	9.976	9.969
153.0	10.12	10.17	10.21	10.23	10.25	10.26	10.25
155.5	10.43	10.46	10.49	10.52	10.53	10.54	10.53
158.0	10.72	10.75	10.77	10.79	10.80	10.81	10.80
160.5	10.90	10.95	10.99	11.02	11.04	11.05	11.04
163.0	11.07	11.10	11.13	11.16	11.17	11.18	11.17
165.5	11.22	11.24	11.27	11.28	11.29	11.30	11.29
168.0	11.36	11.38	11.39	11.40	11.41	11.41	11.41
170.5	11.51	11.51	11.51	11.52	11.52	11.52	11.52
173.0	11.65	11.65	11.65	11.65	11.65	11.65	11.65
175.5	11.78	11.78	11.77	11.77	11.77	11.78	11.77
178.0	11.89	11.89	11.88	11.88	11.88	11.88	11.88
0.0	0	0	0	0	0	0	0

C Range: 0 - 90DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC
Test Date:2018-11-30

γ Range:-180 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:53.0%
Test Distance:10.380m [K=1.0000]
Remarks: