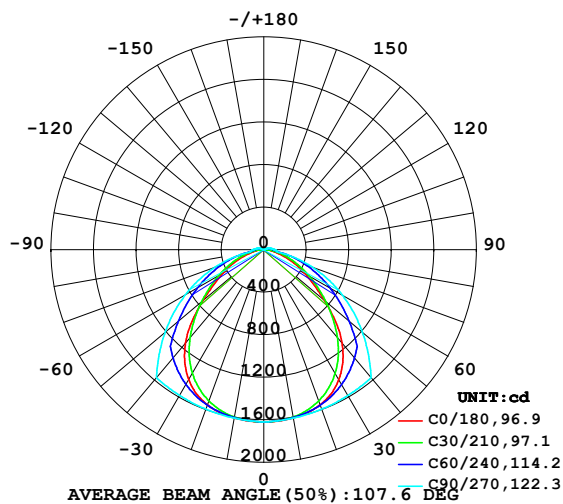


LUMINAIRE PHOTOMETRIC TEST REPORT

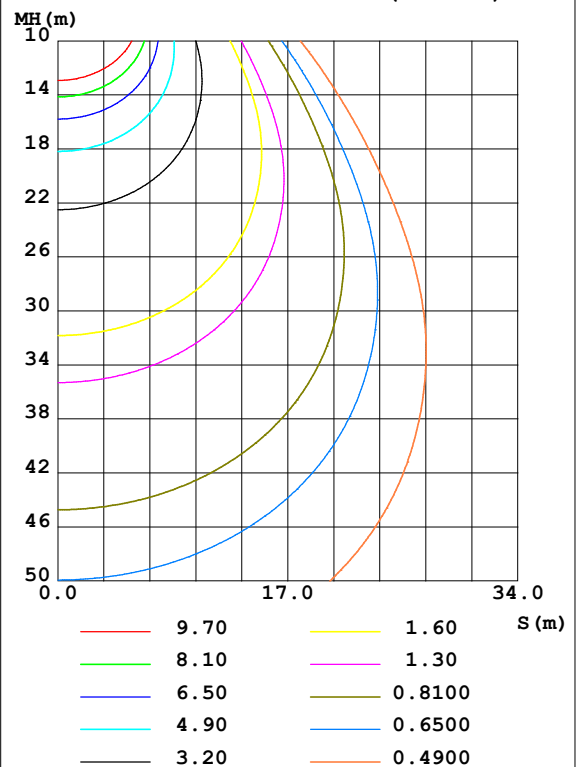
Test:U:231.6V I:0.1664A P:36.98W PF:0.9596 Freq:49.99Hz Lamp Flux:4584.21x1 lm		
NAME: P17ES-UC-3640H-1203B-1684014R8	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 123.95 lm/W			
MODEL		Imax(cd)	1620	S/MH(C0/180)	1.28
NOMINAL POWER(W)	36	LOR(%)	100.0	S/MH(C90/270)	1.50
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	4584.2	η UP,DN(C0-180)	1.3,48.7
NOMINAL FLUX(lm)	4584.21	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	1607	1599	1608	1599	1607	1599	1608	1599	0- 10	153.7	153.7	3.35, 3.35
20	1552	1527	1596	1527	1552	1527	1596	1527	10- 20	446.5	600.2	13.1, 13.1
30	1413	1384	1583	1384	1413	1384	1583	1384	20- 30	689.6	1290	28.1, 28.1
40	1147	1179	1571	1179	1147	1179	1571	1179	30- 40	842.3	2132	46.5, 46.5
50	747.7	918.5	1211	918.5	747.7	918.5	1211	918.5	40- 50	844.8	2977	64.9, 64.9
60	442.8	590.8	851.5	590.8	442.8	590.8	851.5	590.8	50- 60	682.0	3659	79.8, 79.8
70	227.5	337.3	491.8	337.3	227.5	337.3	491.8	337.3	60- 70	471.1	4130	90.1, 90.1
80	87.02	135.4	132.1	135.4	87.02	135.4	132.1	135.4	70- 80	248.6	4378	95.5, 95.5
90	1.404	62.60	100.7	62.60	1.404	62.60	100.7	62.60	80- 90	91.11	4470	97.5, 97.5
100	2.422	36.09	69.31	36.09	2.422	36.09	69.31	36.09	90-100	52.12	4522	98.6, 98.6
110	3.469	10.49	37.91	10.49	3.469	10.49	37.91	10.49	100-110	27.20	4549	99.2, 99.2
120	4.632	5.543	6.506	5.543	4.632	5.543	6.506	5.543	110-120	9.782	4559	99.4, 99.4
130	6.199	6.625	7.597	6.625	6.199	6.625	7.597	6.625	120-130	5.514	4564	99.6, 99.6
140	7.886	7.998	8.689	7.998	7.886	7.998	8.689	7.998	130-140	5.767	4570	99.7, 99.7
150	9.191	9.386	9.780	9.386	9.191	9.386	9.780	9.386	140-150	5.475	4575	99.8, 99.8
160	10.50	10.45	10.87	10.45	10.50	10.45	10.87	10.45	150-160	4.606	4580	99.9, 99.9
170	11.48	11.31	11.36	11.31	11.48	11.31	11.36	11.31	160-170	3.094	4583	100, 100
180	11.85	11.85	11.85	11.85	11.85	11.85	11.85	11.85	170-180	1.103	4584	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 2567.8 lm

%lum = 56.0%

%lamp = 56.0%

Conical surface Flux(120deg): 3658.8 lm

%lum = 79.8%

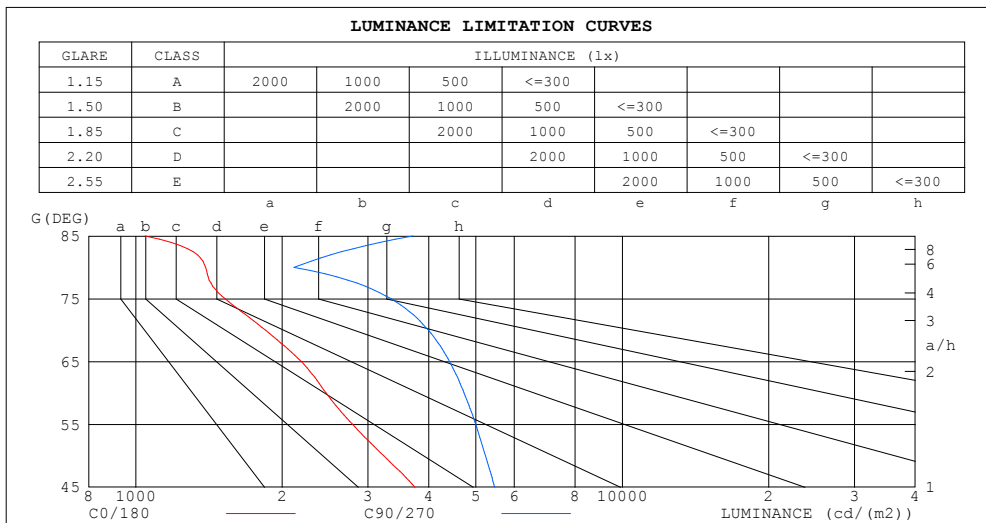
%lamp = 79.8%

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
 γ 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:0.1664A P:36.98W PF:0.9596 Freq:49.99Hz Lamp Flux:4584.21x1 lm		
NAME: P17ES-UC-3640H-1203B-1684014R8	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



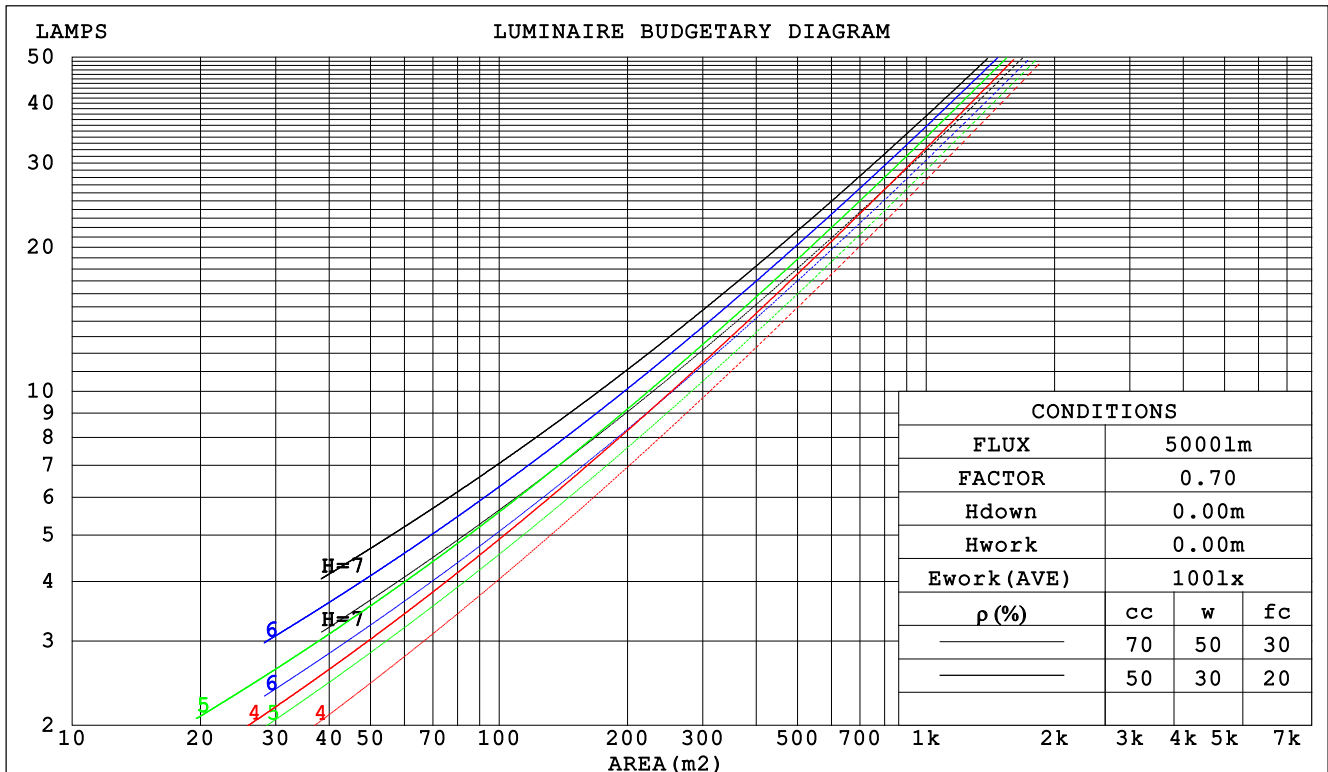
C Range: 0 - 90DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC
Test Date:2018-11-30

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:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:231.6V I:0.1664A P:36.98W PF:0.9596 Freq:49.99Hz Lamp Flux:4584.21x1 lm		
NAME: P17ES-UC-3640H-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	1.05	1.05	1.05	.00	.00	.00	.97
1.0	1.04	.00	.96	1.01	.98	.94	.97	.94	.91	.92	.90	.88	.88	.86	.85	.82
2.0	.91	.84	.79	.89	.83	.78	.85	.80	.76	.81	.77	.74	.78	.75	.72	.69
3.0	.80	.72	.66	.79	.71	.65	.75	.69	.64	.72	.67	.62	.69	.65	.61	.59
4.0	.71	.63	.56	.70	.62	.56	.67	.60	.55	.64	.59	.54	.62	.57	.53	.51
5.0	.64	.55	.49	.63	.54	.48	.60	.53	.48	.58	.52	.47	.56	.50	.46	.44
6.0	.58	.49	.43	.57	.48	.42	.54	.47	.42	.53	.46	.41	.51	.45	.41	.39
7.0	.52	.44	.38	.51	.43	.37	.50	.42	.37	.48	.41	.37	.46	.41	.36	.34
8.0	.48	.39	.34	.47	.39	.33	.45	.38	.33	.44	.37	.33	.43	.37	.32	.30
9.0	.44	.36	.30	.43	.35	.30	.42	.35	.30	.41	.34	.30	.39	.34	.29	.27
10.0	.40	.33	.27	.40	.32	.27	.39	.32	.27	.38	.31	.27	.37	.31	.27	.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:0.1664A P:36.98W PF:0.9596 Freq:49.99Hz Lamp Flux:4584.21x1 lm		
NAME: P17ES-UC-3640H-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	.169	.054	.290	.165	.052	.275	.158	.050	.262	.151	.048	.249	.144	.047		
2.0	.280	.153	.047	.273	.150	.046	.260	.145	.045	.248	.139	.044	.237	.134	.042		
3.0	.260	.138	.041	.254	.136	.041	.242	.131	.040	.232	.127	.039	.222	.123	.038		
4.0	.241	.125	.037	.235	.123	.036	.225	.119	.036	.216	.116	.035	.207	.112	.034		
5.0	.223	.114	.033	.219	.112	.033	.210	.109	.032	.201	.106	.032	.193	.103	.031		
6.0	.208	.104	.030	.204	.103	.030	.195	.100	.029	.188	.098	.029	.181	.095	.028		
7.0	.194	.096	.027	.190	.095	.027	.183	.092	.027	.176	.090	.026	.170	.088	.026		
8.0	.182	.089	.025	.178	.088	.025	.172	.086	.024	.165	.084	.024	.160	.082	.024		
9.0	.171	.083	.023	.168	.082	.023	.162	.080	.023	.156	.078	.022	.151	.076	.022		
10.0	.161	.077	.021	.158	.076	.021	.152	.075	.021	.147	.073	.021	.142	.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	.175	.155	.170	.151	.133	.116	.104	.092	.067	.060	.053	.021	.019	.017	
2.0	.190	.151	.119	.163	.130	.103	.112	.090	.072	.064	.052	.042	.021	.017	.014	
3.0	.182	.134	.095	.156	.115	.083	.107	.080	.058	.062	.047	.034	.020	.015	.011	
4.0	.174	.120	.079	.150	.104	.069	.103	.072	.048	.060	.042	.029	.019	.014	.009	
5.0	.167	.110	.068	.143	.095	.059	.099	.066	.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	.153	.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	.016	.010	.006	
9.0	.141	.084	.045	.122	.073	.040	.084	.051	.028	.049	.030	.017	.016	.010	.006	
10.0	.136	.080	.043	.117	.069	.037	.081	.049	.026	.047	.029	.016	.015	.009	.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:0.1664A P:36.98W PF:0.9596 Freq:49.99Hz Lamp Flux:4584.21x1 lm										
NAME: P17ES-UC-3640H-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	11.6	10.4	11.8	12.1	13.3	14.7	13.6	15.0	15.2
3H	11.0	12.3	11.3	12.6	12.9	14.7	16.0	15.0	16.3	16.6
4H	11.3	12.6	11.7	12.9	13.2	15.2	16.5	15.5	16.8	17.1
6H	11.6	12.8	11.9	13.1	13.4	15.4	16.6	15.8	16.9	17.3
8H	11.6	12.8	12.0	13.1	13.4	15.5	16.6	15.9	17.0	17.3
12H	11.7	12.8	12.0	13.1	13.4	15.6	16.7	16.0	17.1	17.4
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	15.1	16.2	15.5	16.6	16.9
4H	12.5	13.5	12.9	13.8	14.2	15.8	16.8	16.2	17.1	17.5
6H	12.8	13.7	13.2	14.1	14.5	16.1	17.0	16.5	17.4	17.8
8H	12.9	13.7	13.4	14.2	14.6	16.2	17.0	16.7	17.4	17.9
12H	13.0	13.7	13.4	14.2	14.6	16.4	17.2	16.9	17.6	18.0
8H 4H	12.9	13.7	13.3	14.1	14.5	15.8	16.7	16.3	17.1	17.5
6H	13.4	14.1	13.9	14.5	15.0	16.3	17.0	16.8	17.4	17.9
8H	13.6	14.2	14.1	14.6	15.2	16.5	17.1	17.0	17.5	18.1
12H	13.7	14.2	14.2	14.7	15.3	16.8	17.3	17.3	17.8	18.3
12H 4H	12.9	13.7	13.4	14.1	14.6	15.8	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	15.2	16.5	17.0	17.0	17.5	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, 4584 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 5.3$)

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:0.1664A P:36.98W PF:0.9596 Freq:49.99Hz Lamp Flux:4584.21x1 lm		
NAME: P17ES-UC-3640H-1203B-1684014R8	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

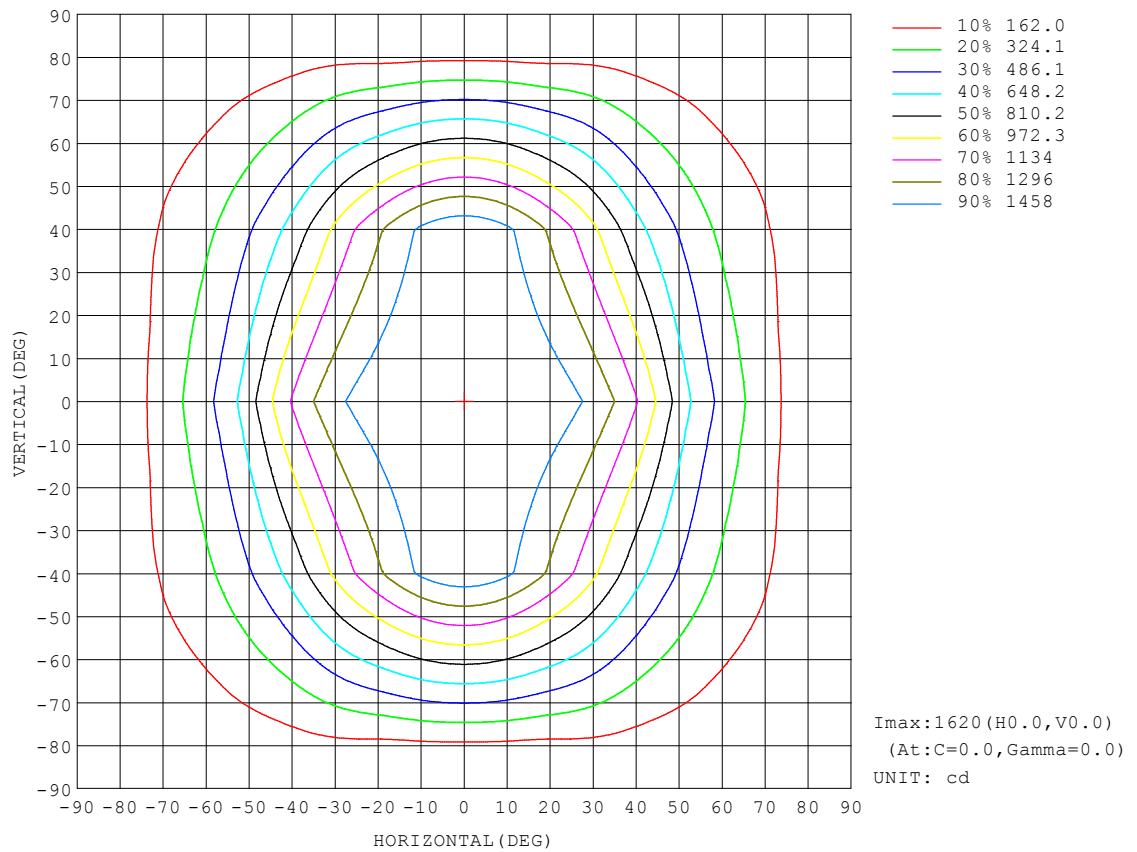
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	58	47	40	58	47	40	56	46	40	34
0.80	68	57	50	67	57	50	65	56	49	43
1.00	77	66	59	76	65	59	73	67	58	51
1.25	84	74	67	82	73	66	79	71	65	58
1.50	89	79	72	87	78	72	84	76	71	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:0.1664A P:36.98W PF:0.9596 Freq:49.99Hz Lamp Flux:4584.21x1 lm		
NAME: P17ES-UC-3640H-1203B-1684014R8	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

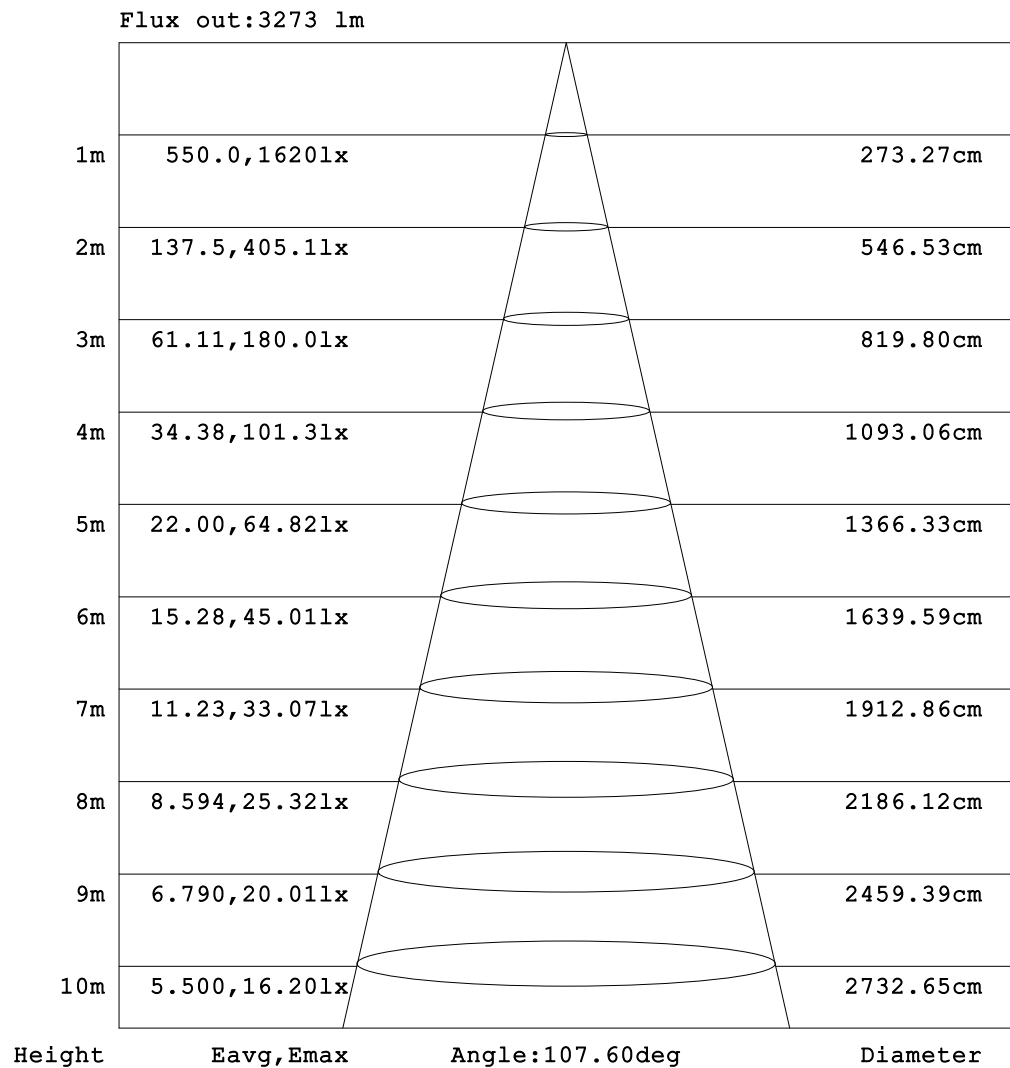


C Range: 0 - 90DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC
Test Date:2018-11-30

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:0.1664A P:36.98W PF:0.9596 Freq:49.99Hz Lamp Flux:4584.21x1 lm		
NAME: P17ES-UC-3640H-1203B-1684014R8	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



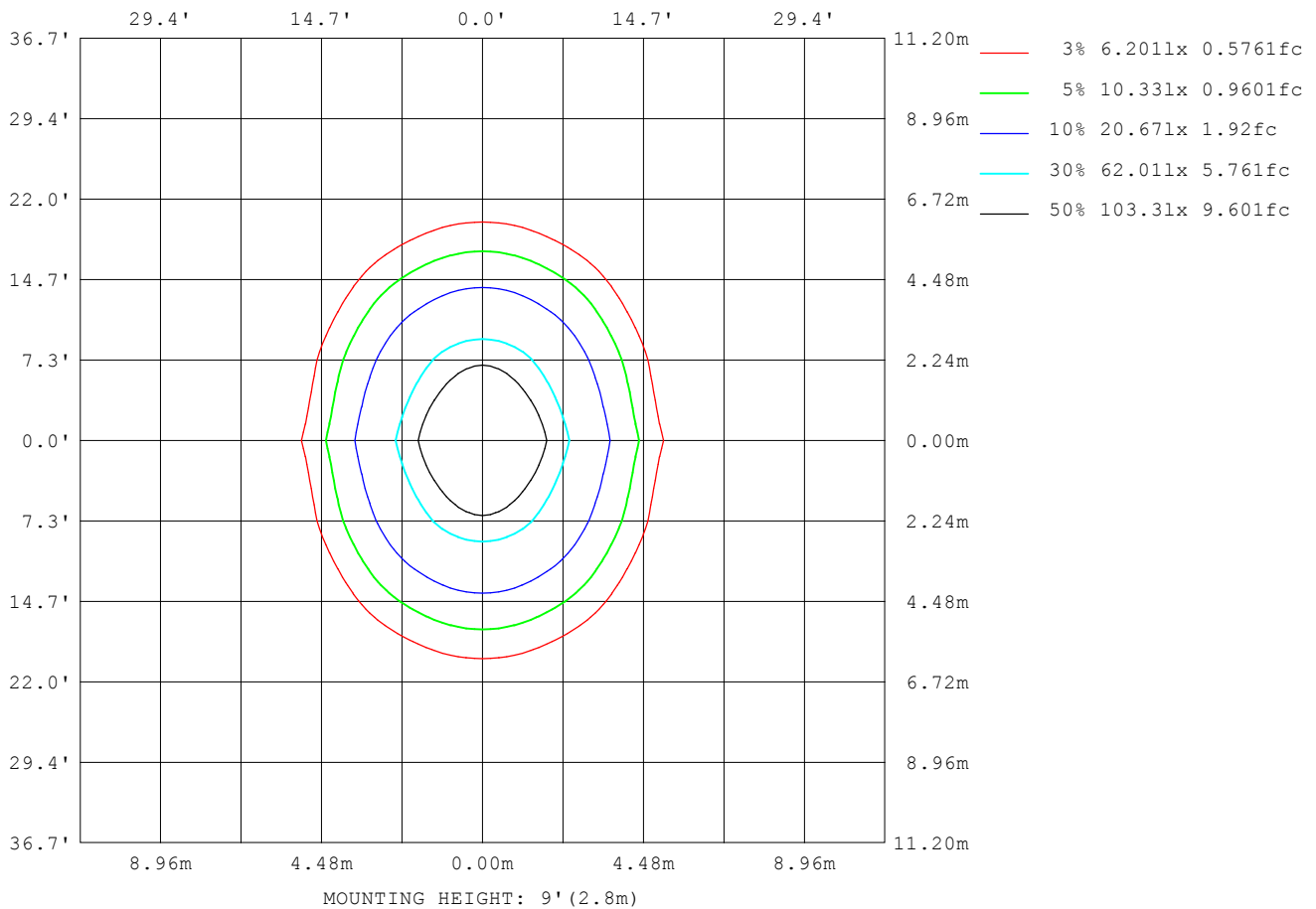
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.1664A P:36.98W PF:0.9596 Freq:49.99Hz Lamp Flux:4584.21x1 lm		
NAME: P17ES-UC-3640H-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:0.1664A P:36.98W PF:0.9596 Freq:49.99Hz Lamp Flux:4584.21x1 lm		
NAME: P17ES-UC-3640H-1203B-1684014R8	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

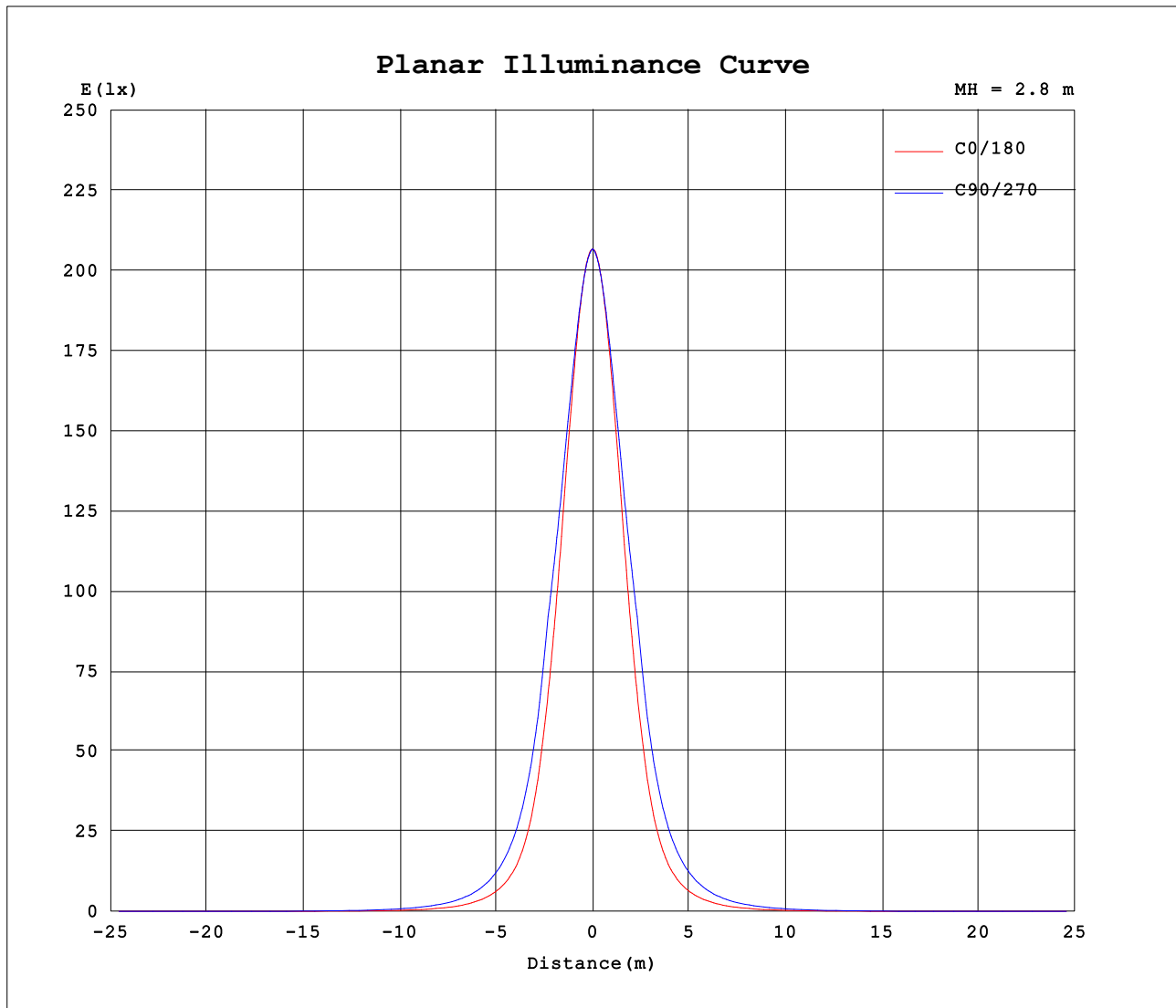
AvgL	cd/m2
L_0~180 (65) av	2189
L_0~180 (75) av	1526
L_0~180 (85) av	1045
L_90~270 (65) av	4417
L_90~270 (75) av	3350
L_90~270 (85) av	3711
L_45 (65) av	2996
L_45 (75) av	2488
L_45 (85) av	2439

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:0.1664A P:36.98W PF:0.9596 Freq:49.99Hz Lamp Flux:4584.21x1 lm		
NAME: P17ES-UC-3640H-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	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620
5	1617	1617	1616	1615	1615	1614	1614	1614	1614	1614	1614	1614	1614	1614	1614	1614	1614	1614	1615
10	1607	1605	1602	1601	1599	1598	1598	1598	1598	1599	1600	1601	1603	1604	1605	1606	1607	1608	1608
15	1587	1581	1575	1571	1568	1566	1565	1566	1568	1571	1575	1579	1584	1589	1593	1597	1600	1602	1602
20	1552	1540	1530	1522	1516	1513	1513	1515	1520	1527	1535	1545	1556	1566	1575	1584	1590	1594	1596
25	1497	1478	1463	1451	1443	1439	1439	1444	1452	1464	1479	1497	1516	1535	1553	1568	1580	1587	1590
30	1413	1387	1366	1351	1342	1340	1343	1352	1365	1384	1407	1435	1464	1494	1523	1547	1567	1579	1583
35	1296	1261	1235	1219	1211	1213	1222	1239	1262	1289	1322	1359	1401	1445	1487	1524	1553	1571	1578
40	1147	1107	1079	1062	1056	1062	1077	1104	1138	1179	1224	1274	1328	1387	1444	1496	1536	1562	1571
45	955	917	895	887	889	900	921	954	999	1054	1116	1180	1229	1268	1307	1342	1369	1386	1392
50	748	715	702	702	715	736	765	802	853	919	967	1011	1049	1086	1125	1160	1188	1205	1211
55	576	548	539	544	560	586	618	659	698	744	794	841	879	913	948	982	1009	1026	1032
60	443	419	410	415	434	462	493	517	551	591	637	682	719	748	776	806	832	846	852
65	333	316	312	318	333	355	375	396	423	456	496	535	568	590	610	634	656	668	672
70	227	222	230	243	251	257	274	293	313	337	368	399	424	439	449	464	481	489	492
75	142	145	165	177	177	180	189	203	217	232	251	273	288	292	291	297	307	311	312
80	87.0	85.9	103	110	113	115	118	125	130	135	143	153	156	149	136	132	134	133	132
85	32.8	36.2	43.2	50.9	55.0	57.4	55.2	62.3	69.2	76.5	86.9	101	109	110	105	107	114	116	116
90	1.40	3.50	10.9	20.1	28.9	37.1	42.0	48.8	55.5	62.6	71.7	84.3	92.4	94.2	90.3	91.7	98.1	101	101
95	1.90	2.23	3.55	9.76	16.9	24.3	29.5	36.0	42.5	49.1	57.6	68.5	75.8	77.8	75.4	77.0	82.5	84.8	85.0
100	2.42	2.46	2.62	2.76	5.67	12.0	17.6	23.8	29.9	36.1	43.9	52.9	59.3	61.6	60.3	62.4	67.1	69.1	69.3
105	2.94	2.92	3.00	3.10	3.23	3.35	6.12	11.9	17.6	23.4	30.3	37.5	43.0	45.4	45.4	47.8	51.6	53.4	53.6
110	3.47	3.43	3.50	3.57	3.66	3.79	3.95	4.12	5.22	10.5	16.3	22.0	26.8	29.4	30.7	33.2	36.3	37.6	37.9
115	4.02	3.98	4.10	4.12	4.20	4.32	4.47	4.64	4.82	5.00	5.12	6.27	10.6	13.8	16.1	18.5	20.7	21.9	22.2
120	4.63	4.59	4.70	4.77	4.83	4.93	5.07	5.23	5.40	5.54	5.63	5.78	5.97	6.11	6.25	6.35	6.41	6.48	6.51
125	5.40	5.31	5.39	5.53	5.56	5.63	5.75	5.89	6.02	6.12	6.18	6.36	6.53	6.65	6.79	6.88	6.95	7.03	7.07
130	6.20	6.10	6.14	6.26	6.37	6.42	6.50	6.59	6.64	6.63	6.79	6.95	7.09	7.21	7.33	7.42	7.50	7.58	7.60
135	7.06	6.95	6.97	7.06	7.19	7.23	7.24	7.18	7.18	7.30	7.44	7.57	7.68	7.79	7.89	7.97	8.06	8.13	8.16
140	7.89	7.80	7.76	7.80	7.88	7.89	7.83	7.82	7.90	8.00	8.10	8.18	8.27	8.37	8.45	8.53	8.61	8.67	8.69
145	8.50	8.44	8.37	8.30	8.35	8.42	8.54	8.60	8.65	8.71	8.76	8.81	8.88	8.95	9.02	9.10	9.18	9.23	9.24
150	9.19	9.09	9.05	9.05	9.08	9.13	9.21	9.30	9.38	9.39	9.41	9.45	9.50	9.55	9.61	9.68	9.74	9.77	9.78
155	9.92	9.83	9.78	9.76	9.76	9.77	9.80	9.84	9.90	9.97	10.0	10.1	10.1	10.2	10.2	10.3	10.3	10.3	10.3
160	10.5	10.4	10.4	10.3	10.3	10.3	10.3	10.4	10.4	10.4	10.5	10.6	10.6	10.7	10.7	10.8	10.8	10.9	10.9
165	11.0	11.0	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	11.0	11.0	11.0	11.1	11.1	11.1	11.1	11.1
170	11.5	11.4	11.4	11.4	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.4	11.4	11.4	11.4
175	11.8	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6
180	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9

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:0.1664A P:36.98W PF:0.9596 Freq:49.99Hz Lamp Flux:4584.21x1 lm																		
NAME: P17ES-UC-3640H-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	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620
5	1614	1614	1614	1614	1614	1614	1614	1614	1614	1614	1614	1614	1614	1615	1615	1616	1617	1617	1617
10	1608	1607	1606	1605	1604	1603	1601	1600	1599	1598	1598	1598	1598	1599	1601	1602	1605	1607	1605
15	1602	1600	1597	1593	1589	1584	1579	1575	1571	1568	1566	1565	1566	1568	1571	1575	1581	1587	1581
20	1594	1590	1584	1575	1566	1556	1545	1535	1527	1520	1515	1513	1513	1516	1522	1530	1540	1552	1540
25	1587	1580	1568	1553	1535	1516	1497	1479	1464	1452	1444	1439	1439	1443	1451	1463	1478	1497	1478
30	1579	1567	1547	1523	1494	1464	1435	1407	1384	1365	1352	1343	1340	1342	1351	1366	1387	1413	1387
35	1571	1553	1524	1487	1445	1401	1359	1322	1289	1262	1239	1222	1213	1211	1219	1235	1261	1296	1261
40	1562	1536	1496	1444	1387	1328	1274	1224	1179	1138	1104	1077	1062	1056	1062	1079	1107	1147	1107
45	1386	1369	1342	1307	1268	1229	1180	1116	1054	999	954	921	900	889	887	895	917	955	917
50	1205	1188	1160	1125	1086	1049	1011	967	919	853	802	765	736	715	702	702	715	748	715
55	1026	1009	982	948	913	879	841	794	744	698	659	618	586	560	544	539	548	576	548
60	846	832	806	776	748	719	682	637	591	551	517	493	462	434	415	410	419	443	419
65	668	656	634	610	590	568	535	496	456	423	396	375	355	333	318	312	316	333	316
70	489	481	464	449	439	424	399	368	337	313	293	274	257	251	243	230	222	227	222
75	311	307	297	291	292	288	273	251	232	217	203	189	180	177	177	165	145	142	145
80	133	134	132	136	149	156	153	143	135	130	125	118	115	113	110	103	85.9	87.0	85.9
85	116	114	107	105	110	109	101	86.9	76.5	69.2	62.3	55.2	57.4	55.0	50.9	43.2	36.2	32.8	36.2
90	101	98.1	91.7	90.3	94.2	92.4	84.3	71.7	62.6	55.5	48.8	42.0	37.1	28.9	20.1	10.9	3.50	1.40	3.50
95	84.8	82.5	77.0	75.4	77.8	75.8	68.5	57.6	49.1	42.5	36.0	29.5	24.3	16.9	9.76	3.55	2.23	1.90	2.23
100	69.1	67.1	62.4	60.3	61.6	59.3	52.9	43.9	36.1	29.9	23.8	17.6	12.0	5.67	2.76	2.62	2.46	2.42	2.46
105	53.4	51.6	47.8	45.4	45.4	43.0	37.5	30.3	23.4	17.6	11.9	6.12	3.35	3.23	3.10	3.00	2.92	2.94	2.92
110	37.6	36.3	33.2	30.7	29.4	26.8	22.0	16.3	10.5	5.22	4.12	3.95	3.79	3.66	3.57	3.50	3.43	3.47	3.43
115	21.9	20.7	18.5	16.1	13.8	10.6	6.27	5.12	5.00	4.82	4.64	4.47	4.32	4.20	4.12	4.10	3.98	4.02	3.98
120	6.48	6.41	6.35	6.25	6.11	5.97	5.78	5.63	5.54	5.40	5.23	5.07	4.93	4.83	4.77	4.70	4.59	4.63	4.59
125	7.03	6.95	6.88	6.79	6.65	6.53	6.36	6.18	6.12	6.02	5.89	5.75	5.63	5.56	5.53	5.39	5.31	5.40	5.31
130	7.58	7.50	7.42	7.33	7.21	7.09	6.95	6.79	6.63	6.64	6.59	6.50	6.42	6.37	6.26	6.14	6.10	6.20	6.10
135	8.13	8.06	7.97	7.89	7.79	7.68	7.57	7.44	7.30	7.18	7.18	7.24	7.23	7.19	7.06	6.97	6.95	7.06	6.95
140	8.67	8.61	8.53	8.45	8.37	8.27	8.18	8.10	8.00	7.90	7.82	7.83	7.89	7.88	7.80	7.76	7.80	7.89	7.80
145	9.23	9.18	9.10	9.02	8.95	8.88	8.81	8.76	8.71	8.65	8.60	8.54	8.42	8.35	8.30	8.37	8.44	8.50	8.44
150	9.77	9.74	9.68	9.61	9.55	9.50	9.45	9.41	9.39	9.38	9.30	9.21	9.13	9.08	9.05	9.05	9.09	9.19	9.09
155	10.3	10.3	10.3	10.2	10.2	10.1	10.1	10.0	9.97	9.90	9.84	9.80	9.77	9.76	9.76	9.78	9.83	9.92	9.83
160	10.9	10.8	10.8	10.7	10.7	10.6	10.6	10.5	10.4	10.4	10.4	10.3	10.3	10.3	10.3	10.4	10.4	10.5	10.4
165	11.1	11.1	11.1	11.1	11.0	11.0	11.0	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	11.0	11.0	11.0
170	11.4	11.4	11.4	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.4	11.4	11.4	11.5	11.4
175	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.8	11.7
180	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9

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:0.1664A P:36.98W PF:0.9596 Freq:49.99Hz Lamp Flux:4584.21x1 lm		
NAME: P17ES-UC-3640H-1203B-1684014R8	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

Table--3

UNIT: cd

C (DEG) γ (DEG)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620
5	1616	1615	1615	1614	1614	1614	1614	1614	1614	1614	1614	1614	1614	1614	1614	1614	1615	1614	1614
10	1602	1601	1599	1598	1598	1598	1598	1599	1600	1601	1603	1604	1605	1606	1607	1608	1608	1608	1607
15	1575	1571	1568	1566	1565	1566	1568	1571	1575	1579	1584	1589	1593	1597	1600	1602	1602	1602	1600
20	1530	1522	1516	1513	1513	1515	1520	1527	1535	1545	1556	1566	1575	1584	1590	1594	1596	1594	1590
25	1463	1451	1443	1439	1439	1444	1452	1464	1479	1497	1516	1535	1553	1568	1580	1587	1590	1587	1580
30	1366	1351	1342	1340	1343	1352	1365	1384	1407	1435	1464	1494	1523	1547	1567	1579	1583	1579	1567
35	1235	1219	1211	1213	1222	1239	1262	1289	1322	1359	1401	1445	1487	1524	1553	1571	1578	1571	1553
40	1079	1062	1056	1062	1077	1104	1138	1179	1224	1274	1328	1387	1444	1496	1536	1562	1571	1562	1536
45	895	887	889	900	921	954	999	1054	1116	1180	1229	1268	1307	1342	1369	1386	1392	1386	1369
50	702	702	715	736	765	802	853	919	967	1011	1049	1086	1125	1160	1188	1205	1211	1205	1188
55	539	544	560	586	618	659	698	744	794	841	879	913	948	982	1009	1026	1032	1026	1009
60	410	415	434	462	493	517	551	591	637	682	719	748	776	806	832	846	852	846	832
65	312	318	333	355	375	396	423	456	496	535	568	590	610	634	656	668	672	668	656
70	230	243	251	257	274	293	313	337	368	399	424	439	449	464	481	489	492	489	481
75	165	177	177	180	189	203	217	232	251	273	288	292	291	297	307	311	312	311	307
80	103	110	113	115	118	125	130	135	143	153	156	149	136	132	134	133	132	133	134
85	43.2	50.9	55.0	57.4	55.2	62.3	69.2	76.5	86.9	101	109	110	105	107	114	116	116	116	114
90	10.9	20.1	28.9	37.1	42.0	48.8	55.5	62.6	71.7	84.3	92.4	94.2	90.3	91.7	98.1	101	101	101	98.1
95	3.55	9.76	16.9	24.3	29.5	36.0	42.5	49.1	57.6	68.5	75.8	77.8	75.4	77.0	82.5	84.8	85.0	84.8	82.5
100	2.62	2.76	5.67	12.0	17.6	23.8	29.9	36.1	43.9	52.9	59.3	61.6	60.3	62.4	67.1	69.1	69.3	69.1	67.1
105	3.00	3.10	3.23	3.35	6.12	11.9	17.6	23.4	30.3	37.5	43.0	45.4	45.4	47.8	51.6	53.4	53.6	53.4	51.6
110	3.50	3.57	3.66	3.79	3.95	4.12	5.22	10.5	16.3	22.0	26.8	29.4	30.7	33.2	36.3	37.6	37.9	37.6	36.3
115	4.10	4.12	4.20	4.32	4.47	4.64	4.82	5.00	5.12	6.27	10.6	13.8	16.1	18.5	20.7	21.9	22.2	21.9	20.7
120	4.70	4.77	4.83	4.93	5.07	5.23	5.40	5.54	5.63	5.78	5.97	6.11	6.25	6.35	6.41	6.48	6.51	6.48	6.41
125	5.39	5.53	5.56	5.63	5.75	5.89	6.02	6.12	6.18	6.36	6.53	6.65	6.79	6.88	6.95	7.03	7.07	7.03	6.95
130	6.14	6.26	6.37	6.42	6.50	6.59	6.64	6.63	6.79	6.95	7.09	7.21	7.33	7.42	7.50	7.58	7.60	7.58	7.50
135	6.97	7.06	7.19	7.23	7.24	7.18	7.18	7.30	7.44	7.57	7.68	7.79	7.89	7.97	8.06	8.13	8.16	8.13	8.06
140	7.76	7.80	7.88	7.89	7.83	7.82	7.90	8.00	8.10	8.18	8.27	8.37	8.45	8.53	8.61	8.67	8.69	8.67	8.61
145	8.37	8.30	8.35	8.42	8.54	8.60	8.65	8.71	8.76	8.81	8.88	8.95	9.02	9.10	9.18	9.23	9.24	9.23	9.18
150	9.05	9.05	9.08	9.13	9.21	9.30	9.38	9.39	9.41	9.45	9.50	9.55	9.61	9.68	9.74	9.77	9.78	9.77	9.74
155	9.78	9.76	9.76	9.77	9.80	9.84	9.90	9.97	10.0	10.1	10.1	10.2	10.2	10.3	10.3	10.3	10.3	10.3	10.3
160	10.4	10.3	10.3	10.3	10.3	10.4	10.4	10.4	10.5	10.6	10.6	10.7	10.7	10.8	10.8	10.9	10.9	10.9	10.8
165	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	11.0	11.0	11.0	11.1	11.1	11.1	11.1	11.1	11.1	11.1
170	11.4	11.4	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.4	11.4	11.4	11.4	11.4	11.4
175	11.7	11.7	11.7	11.7	11.7	11.7	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6
180	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9

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:0.1664A P:36.98W PF:0.9596 Freq:49.99Hz Lamp Flux:4584.21x1 lm																	
NAME: P17ES-UC-3640H-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	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620	1620				
5	1614	1614	1614	1614	1614	1614	1614	1614	1614	1614	1614	1614	1615	1615	1616	1617			
10	1606	1605	1604	1603	1601	1600	1599	1598	1598	1598	1598	1599	1601	1602	1605				
15	1597	1593	1589	1584	1579	1575	1571	1568	1566	1565	1566	1568	1571	1575	1581				
20	1584	1575	1566	1556	1545	1535	1527	1520	1515	1513	1513	1516	1522	1530	1540				
25	1568	1553	1535	1516	1497	1479	1464	1452	1444	1439	1439	1443	1451	1463	1478				
30	1547	1523	1494	1464	1435	1407	1384	1365	1352	1343	1340	1342	1351	1366	1387				
35	1524	1487	1445	1401	1359	1322	1289	1262	1239	1222	1213	1211	1219	1235	1261				
40	1496	1444	1387	1328	1274	1224	1179	1138	1104	1077	1062	1056	1062	1079	1107				
45	1342	1307	1268	1229	1180	1116	1054	999	954	921	900	889	887	895	917				
50	1160	1125	1086	1049	1011	967	919	853	802	765	736	715	702	702	715				
55	982	948	913	879	841	794	744	698	659	618	586	560	544	539	548				
60	806	776	748	719	682	637	591	551	517	493	462	434	415	410	419				
65	634	610	590	568	535	496	456	423	396	375	355	333	318	312	316				
70	464	449	439	424	399	368	337	313	293	274	257	251	243	230	222				
75	297	291	292	288	273	251	232	217	203	189	180	177	177	165	145				
80	132	136	149	156	153	143	135	130	125	118	115	113	110	103	85.9				
85	107	105	110	109	101	86.9	76.5	69.2	62.3	55.2	57.4	55.0	50.9	43.2	36.2				
90	91.7	90.3	94.2	92.4	84.3	71.7	62.6	55.5	48.8	42.0	37.1	28.9	20.1	10.9	3.50				
95	77.0	75.4	77.8	75.8	68.5	57.6	49.1	42.5	36.0	29.5	24.3	16.9	9.76	3.55	2.23				
100	62.4	60.3	61.6	59.3	52.9	43.9	36.1	29.9	23.8	17.6	12.0	5.67	2.76	2.62	2.46				
105	47.8	45.4	45.4	43.0	37.5	30.3	23.4	17.6	11.9	6.12	3.35	3.23	3.10	3.00	2.92				
110	33.2	30.7	29.4	26.8	22.0	16.3	10.5	5.22	4.12	3.95	3.79	3.66	3.57	3.50	3.43				
115	18.5	16.1	13.8	10.6	6.27	5.12	5.00	4.82	4.64	4.47	4.32	4.20	4.12	4.10	3.98				
120	6.35	6.25	6.11	5.97	5.78	5.63	5.54	5.40	5.23	5.07	4.93	4.83	4.77	4.70	4.59				
125	6.88	6.79	6.65	6.53	6.36	6.18	6.12	6.02	5.89	5.75	5.63	5.56	5.53	5.39	5.31				
130	7.42	7.33	7.21	7.09	6.95	6.79	6.63	6.64	6.59	6.50	6.42	6.37	6.26	6.14	6.10				
135	7.97	7.89	7.79	7.68	7.57	7.44	7.30	7.18	7.18	7.24	7.23	7.19	7.06	6.97	6.95				
140	8.53	8.45	8.37	8.27	8.18	8.10	8.00	7.90	7.82	7.83	7.89	7.88	7.80	7.76	7.80				
145	9.10	9.02	8.95	8.88	8.81	8.76	8.71	8.65	8.60	8.54	8.42	8.35	8.30	8.37	8.44				
150	9.68	9.61	9.55	9.50	9.45	9.41	9.39	9.38	9.30	9.21	9.13	9.08	9.05	9.05	9.09				
155	10.3	10.2	10.2	10.1	10.1	10.0	9.97	9.90	9.84	9.80	9.77	9.76	9.76	9.78	9.83				
160	10.8	10.7	10.7	10.6	10.6	10.5	10.4	10.4	10.4	10.3	10.3	10.3	10.3	10.4	10.4				
165	11.1	11.1	11.0	11.0	11.0	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	11.0				
170	11.4	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.4	11.4	11.4				
175	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.7	11.7	11.7	11.7	11.7	11.7	11.7				
180	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9				

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]

```

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]

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]

```

✓ 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]

13.0	0	0	0	0	0	0	0	1596	1592	1588
15.5	0	0	0	0	0	0	0	1584	1577	1572
18.0	0	0	0	0	0	0	0	1568	1559	1551
20.5	0	0	0	0	0	0	0	1548	1535	1525
23.0	0	0	0	0	0	0	0	1522	1506	1493
25.5	0	0	0	0	0	0	0	1490	1470	1455
28.0	0	0	0	0	0	0	0	1451	1427	1409
30.5	0	0	0	0	0	0	0	1403	1376	1354
33.0	0	0	0	0	0	0	0	1347	1315	1291
35.5	0	0	0	0	0	0	0	1282	1247	1221
38.0	0	0	0	0	0	0	0	1210	1172	1144
40.5	0	0	0	0	0	0	0	1129	1090	1062
43.0	0	0	0	0	0	0	0	1037	998.5	972.3
45.5	0	0	0	0	0	0	0	933.6	896.4	875.5
48.0	0	0	0	0	0	0	0	827.8	793.0	777.1
50.5	0	0	0	0	0	0	0	728.9	696.8	684.0
53.0	0	0	0	0	0	0	0	639.7	610.9	599.8
55.5	0	0	0	0	0	0	0	561.0	533.7	524.1
58.0	0	0	0	0	0	0	0	491.9	466.5	456.8
60.5	0	0	0	0	0	0	0	431.4	408.0	399.1
63.0	0	0	0	0	0	0	0	376.8	355.9	348.9
65.5	0	0	0	0	0	0	0	321.9	305.8	303.4
68.0	0	0	0	0	0	0	0	267.5	257.3	260.9
70.5	0	0	0	0	0	0	0	218.1	213.3	222.4
73.0	0	0	0	0	0	0	0	173.3	173.5	189.0
75.5	0	0	0	0	0	0	0	135.4	138.0	159.3
78.0	0	0	0	0	0	0	0	105.9	106.8	131.8
80.5	0	0	0	0	0	0	0	82.20	81.20	95.63
83.0	0	0	0	0	0	0	0	56.11	56.95	64.12
85.5	0	0	0	0	0	0	0	27.28	31.01	38.27
88.0	0	0	0	0	0	0	0	5.518	10.61	16.18
90.5	0	0	0	0	0	0	0	1.871	3.314	10.12
93.0	0	0	0	0	0	0	0	1.990	2.258	6.484
95.5	0	0	0	0	0	0	0	1.897	2.250	2.762
98.0	0	0	0	0	0	0	0	2.176	2.330	2.499
100.5	0	0	0	0	0	0	0	2.475	2.504	2.653
103.0	0	0	0	0	0	0	0	2.741	2.727	2.838
105.5	0	0	0	0	0	0	0	2.998	2.966	3.044
108.0	0	0	0	0	0	0	0	3.253	3.213	3.288
110.5	0	0	0	0	0	0	0	3.521	3.481	3.559
113.0	0	0	0	0	0	0	0	3.796	3.756	3.855
115.5	0	0	0	0	0	0	0	4.076	4.041	4.165
118.0	0	0	0	0	0	0	0	4.370	4.334	4.449
120.5	0	0	0	0	0	0	0	4.705	4.660	4.765
123.0	0	0	0	0	0	0	0	5.087	5.018	5.102
125.5	0	0	0	0	0	0	0	5.479	5.389	5.462
128.0	0	0	0	0	0	0	0	5.870	5.779	5.837
130.5	0	0	0	0	0	0	0	6.281	6.181	6.225
133.0	0	0	0	0	0	0	0	6.711	6.604	6.633
135.5	0	0	0	0	0	0	0	7.143	7.038	7.052
138.0	0	0	0	0	0	0	0	7.579	7.473	7.465
140.5	0	0	0	0	0	0	0	7.960	7.870	7.836
143.0	0	0	0	0	0	0	0	8.315	8.228	8.175
145.5	0	0	0	0	0	0	0	8.552	8.484	8.420
148.0	0	0	0	0	0	0	0	8.880	8.779	8.741
150.5	0	0	0	0	0	0	0	9.271	9.171	9.131
153.0	0	0	0	0	0	0	0	9.645	9.552	9.504
155.5	0	0	0	0	0	0	0	9.984	9.901	9.849
158.0	0	0	0	0	0	0	0	10.29	10.21	10.15
160.5	0	0	0	0	0	0	0	10.55	10.49	10.43
163.0	0	0	0	0	0	0	0	10.83	10.76	10.72
165.5	0	0	0	0	0	0	0	11.09	11.03	10.98
168.0	0	0	0	0	0	0	0	11.32	11.26	11.22
170.5	0	0	0	0	0	0	0	11.52	11.46	11.43
173.0	0	0	0	0	0	0	0	11.69	11.63	11.61
175.5	0	0	0	0	0	0	0	11.80	11.76	11.74
178.0	0	0	0	0	0	0	0	11.84	11.83	11.82
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

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]

```

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]

20.5	1516	1510	1507	1506	1509	1514	1521	1531	1541	1552
23.0	1482	1475	1471	1471	1475	1482	1491	1504	1518	1533
25.5	1442	1434	1430	1431	1435	1444	1457	1473	1491	1511
28.0	1395	1386	1383	1385	1391	1402	1418	1438	1461	1486
30.5	1339	1331	1329	1333	1342	1356	1375	1399	1428	1458
33.0	1275	1267	1267	1274	1287	1305	1329	1357	1391	1428
35.5	1204	1197	1198	1209	1226	1250	1279	1312	1351	1394
38.0	1127	1120	1124	1138	1160	1190	1225	1264	1309	1359
40.5	1046	1040	1046	1062	1089	1125	1167	1214	1265	1321
43.0	959.9	957.4	965.0	983.8	1015	1056	1106	1161	1218	1281
45.5	868.7	871.5	883.6	905.0	938.6	984.6	1041	1104	1170	1211
48.0	774.6	783.9	801.8	826.7	862.1	911.5	974.1	1040	1082	1120
50.5	684.8	698.0	720.3	749.6	787.2	838.6	900.2	949.2	993.7	1031
53.0	603.4	617.8	643.1	675.0	714.8	764.3	811.6	861.7	907.8	945.7
55.5	529.8	546.1	572.3	605.0	645.7	682.6	728.0	778.0	824.7	862.6
58.0	462.9	481.6	508.4	541.7	572.3	607.0	649.8	698.3	744.5	782.1
60.5	403.8	422.7	451.3	480.1	504.4	536.9	576.4	622.4	667.2	703.7
63.0	353.3	369.9	399.3	419.4	442.5	471.8	507.6	550.3	592.7	627.3
65.5	309.4	324.3	344.0	363.7	385.3	411.1	443.3	482.2	521.2	553.2
68.0	270.8	284.6	293.4	312.2	332.3	355.1	383.0	417.3	452.3	480.9
70.5	236.4	242.9	248.7	264.6	283.5	302.9	326.2	355.6	386.1	410.4
73.0	206.3	205.1	209.0	221.2	237.9	253.7	272.6	296.6	322.1	341.5
75.5	170.3	170.3	173.2	181.4	195.2	207.8	221.9	240.1	260.3	274.3
78.0	136.0	137.6	140.3	145.0	155.5	164.1	173.1	185.7	200.2	208.1
80.5	103.4	106.8	109.4	111.3	117.5	122.2	126.2	132.9	141.4	143.0
83.0	73.07	77.51	80.32	79.46	81.64	81.91	82.57	93.23	107.6	116.1
85.5	45.58	49.53	51.70	53.89	60.85	67.80	75.05	85.29	99.17	107.6
88.0	24.90	33.99	43.10	47.27	53.87	60.87	67.99	77.63	90.83	99.12
90.5	19.01	27.56	35.88	40.69	47.43	54.19	61.20	70.26	82.66	90.72
93.0	13.76	21.54	29.48	34.44	40.85	47.57	54.31	63.15	74.77	82.40
95.5	8.777	15.80	23.07	28.25	34.82	41.19	47.77	56.18	66.92	74.12
98.0	3.728	10.20	16.87	22.25	28.64	34.88	41.31	49.30	59.08	65.88
100.5	2.789	4.518	10.84	16.45	22.66	28.64	34.78	42.54	51.41	57.70
103.0	2.952	3.084	4.919	10.68	16.70	22.49	28.44	35.76	43.74	49.55
105.5	3.147	3.275	3.392	4.979	10.69	16.32	22.07	28.88	35.98	41.40
108.0	3.375	3.481	3.606	3.764	4.726	10.16	15.65	21.97	28.24	33.25
110.5	3.618	3.709	3.843	3.998	4.168	4.337	9.185	14.89	20.45	25.14
113.0	3.887	3.969	4.097	4.252	4.424	4.597	4.779	7.565	12.60	17.04
115.5	4.177	4.254	4.377	4.525	4.693	4.872	5.054	5.176	5.298	9.003
118.0	4.498	4.565	4.677	4.821	4.981	5.159	5.325	5.442	5.566	5.751
120.5	4.845	4.900	4.999	5.133	5.292	5.465	5.597	5.679	5.839	6.021
123.0	5.218	5.256	5.343	5.466	5.617	5.781	5.890	5.940	6.122	6.300
125.5	5.611	5.635	5.704	5.824	5.959	6.078	6.178	6.236	6.414	6.584
128.0	5.967	6.031	6.092	6.193	6.310	6.384	6.410	6.539	6.709	6.864
130.5	6.342	6.452	6.500	6.569	6.651	6.696	6.690	6.851	7.013	7.145
133.0	6.738	6.885	6.918	6.938	6.971	6.978	7.022	7.174	7.323	7.438
135.5	7.141	7.264	7.303	7.315	7.241	7.247	7.365	7.501	7.632	7.735
138.0	7.522	7.607	7.668	7.645	7.545	7.595	7.714	7.833	7.935	8.030
140.5	7.865	7.940	7.928	7.883	7.897	7.973	8.069	8.168	8.243	8.333
143.0	8.132	8.181	8.162	8.236	8.285	8.349	8.425	8.501	8.559	8.638
145.5	8.361	8.415	8.491	8.609	8.681	8.724	8.773	8.820	8.873	8.941
148.0	8.734	8.777	8.851	8.945	9.060	9.096	9.113	9.142	9.195	9.248
150.5	9.124	9.148	9.197	9.270	9.358	9.455	9.453	9.475	9.519	9.560
153.0	9.487	9.495	9.528	9.570	9.627	9.699	9.776	9.805	9.833	9.867
155.5	9.822	9.820	9.832	9.851	9.889	9.951	10.02	10.09	10.14	10.17
158.0	10.11	10.10	10.11	10.12	10.16	10.21	10.26	10.32	10.38	10.45
160.5	10.40	10.39	10.38	10.39	10.42	10.45	10.49	10.54	10.60	10.65
163.0	10.69	10.67	10.66	10.65	10.66	10.69	10.72	10.76	10.80	10.85
165.5	10.96	10.94	10.92	10.91	10.91	10.92	10.94	10.96	10.99	11.03
168.0	11.19	11.17	11.16	11.15	11.14	11.14	11.15	11.16	11.18	11.20
170.5	11.41	11.39	11.37	11.36	11.36	11.35	11.35	11.35	11.36	11.37
173.0	11.59	11.57	11.56	11.55	11.54	11.53	11.53	11.52	11.52	11.51
175.5	11.73	11.71	11.70	11.69	11.68	11.67	11.66	11.66	11.65	11.65
178.0	11.81	11.80	11.80	11.79	11.79	11.78	11.77	11.77	11.77	11.76
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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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:

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Photometric Data Table [cd]

28.0	1512	1536	1556	1572	1582	1586	1582
30.5	1490	1520	1545	1565	1578	1583	1578
33.0	1466	1502	1534	1558	1574	1580	1574
35.5	1439	1483	1521	1551	1570	1577	1570
38.0	1411	1462	1507	1543	1566	1574	1566
40.5	1381	1440	1493	1532	1547	1553	1547
43.0	1343	1382	1415	1441	1457	1464	1457
45.5	1250	1289	1324	1351	1368	1374	1368
48.0	1158	1197	1233	1260	1277	1284	1277
50.5	1068	1107	1142	1170	1187	1193	1187
53.0	981.0	1018	1053	1081	1098	1104	1098
55.5	895.8	930.1	964.3	991.5	1008	1014	1008
58.0	812.7	844.0	876.3	902.5	918.2	923.7	918.2
60.5	731.4	759.1	789.1	813.9	828.5	833.6	828.5
63.0	652.1	675.7	702.7	725.8	739.3	743.8	739.3
65.5	574.5	593.6	617.1	638.0	650.0	654.0	650.0
68.0	498.5	512.7	532.0	550.5	560.7	563.9	560.7
70.5	423.7	432.7	447.6	463.3	471.4	473.8	471.4
73.0	350.2	353.7	363.8	376.3	382.4	384.0	382.4
75.5	277.8	275.7	280.5	289.5	293.5	294.1	293.5
78.0	206.2	198.1	197.7	203.1	204.4	204.1	204.4
80.5	135.3	121.1	120.1	127.8	130.5	130.6	130.5
83.0	116.8	111.2	112.5	119.8	122.6	122.7	122.6
85.5	108.7	103.8	105.0	112.0	114.7	114.9	114.7
88.0	100.7	96.30	97.62	104.3	106.9	107.0	106.9
90.5	92.56	88.82	90.24	96.54	98.97	99.15	98.97
93.0	84.37	81.34	82.87	88.73	91.11	91.31	91.11
95.5	76.20	73.85	75.54	80.96	83.26	83.47	83.26
98.0	68.07	66.34	68.24	73.29	75.37	75.60	75.37
100.5	59.94	58.85	60.95	65.60	67.50	67.74	67.50
103.0	51.82	51.39	53.66	57.84	59.64	59.91	59.64
105.5	43.77	43.96	46.37	50.11	51.78	52.06	51.78
108.0	35.78	36.55	39.08	42.42	43.91	44.20	43.91
110.5	27.84	29.22	31.77	34.71	36.04	36.34	36.04
113.0	20.01	21.93	24.44	26.95	28.18	28.50	28.18
115.5	12.30	14.68	17.07	19.19	20.33	20.66	20.33
118.0	5.902	7.475	9.669	11.42	12.46	12.80	12.46
120.5	6.162	6.305	6.400	6.467	6.537	6.562	6.537
123.0	6.431	6.574	6.669	6.738	6.811	6.845	6.811
125.5	6.709	6.843	6.936	7.009	7.085	7.123	7.085
128.0	6.990	7.111	7.201	7.283	7.358	7.387	7.358
130.5	7.271	7.388	7.474	7.558	7.631	7.653	7.631
133.0	7.558	7.666	7.753	7.834	7.907	7.933	7.907
135.5	7.844	7.941	8.028	8.111	8.182	8.210	8.182
138.0	8.132	8.217	8.303	8.389	8.454	8.476	8.454
140.5	8.427	8.504	8.585	8.668	8.727	8.744	8.727
143.0	8.721	8.796	8.874	8.951	9.006	9.021	9.006
145.5	9.008	9.082	9.158	9.232	9.282	9.296	9.282
148.0	9.302	9.370	9.443	9.510	9.552	9.565	9.552
150.5	9.608	9.668	9.734	9.792	9.825	9.835	9.825
153.0	9.917	9.972	10.03	10.08	10.10	10.11	10.10
155.5	10.22	10.27	10.32	10.36	10.38	10.38	10.38
158.0	10.52	10.56	10.60	10.64	10.65	10.65	10.65
160.5	10.72	10.78	10.83	10.87	10.89	10.90	10.89
163.0	10.90	10.94	10.98	11.00	11.02	11.02	11.02
165.5	11.06	11.09	11.12	11.13	11.14	11.14	11.14
168.0	11.22	11.24	11.25	11.26	11.26	11.26	11.26
170.5	11.37	11.38	11.38	11.38	11.39	11.39	11.39
173.0	11.51	11.51	11.51	11.51	11.51	11.51	11.51
175.5	11.64	11.64	11.64	11.63	11.63	11.63	11.63
178.0	11.76	11.76	11.76	11.76	11.75	11.76	11.75
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: