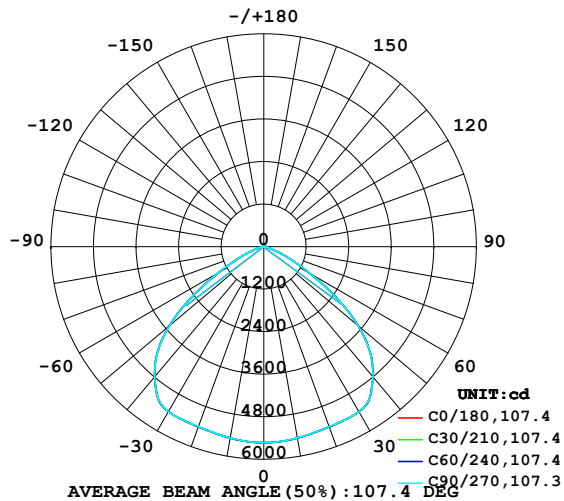


LUMINAIRE PHOTOMETRIC TEST REPORT

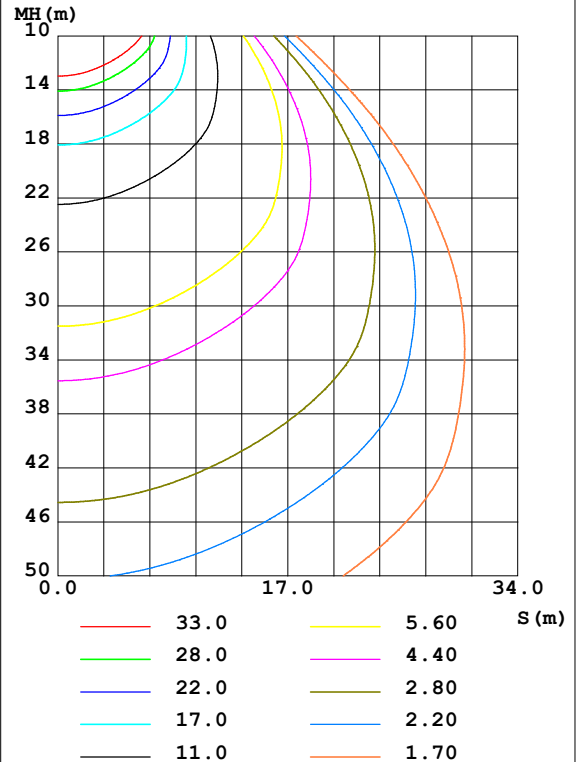
Test:U:231.5V I:0.4340A P:99.19W PF:0.9873 Freq:49.99Hz Lamp Flux:14391.1x1 lm		
NAME: H09STZ-10-R280-BO-40H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 145.08 lm/W			
MODEL		Imax(cd)	5529	S/MH(C0/180)	1.44
NOMINAL POWER(W)	100	LOR(%)	100.0	S/MH(C90/270)	1.44
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	14391	η UP,DN(C0-180)	0.5,49.5
NOMINAL FLUX(lm)	14391.1	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.5,49.5
LAMPS INSIDE	1	η up(%)	1.0	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	230	η down(%)	99.0	CIBSE SHR MAX	1.55

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:26 April 2018

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
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	5484	5481	5477	5481	5484	5481	5477	5481	0- 10	525.4	525.4	3.65,3.65
20	5412	5407	5404	5407	5412	5407	5404	5407	10- 20	1541	2066	14.4,14.4
30	5378	5376	5376	5376	5378	5376	5376	5376	20- 30	2497	4563	31.7,31.7
40	4790	4793	4791	4793	4790	4793	4791	4793	30- 40	3236	7799	54.2,54.2
50	3480	3483	3472	3483	3480	3483	3472	3483	40- 50	3249	11047	76.8,76.8
60	1475	1477	1471	1477	1475	1477	1471	1477	50- 60	2206	13253	92.1,92.1
70	364.2	369.5	377.9	369.5	364.2	369.5	377.9	369.5	60- 70	827.2	14081	97.8,97.8
80	22.43	22.40	22.08	22.40	22.43	22.40	22.08	22.40	70- 80	159.8	14240	99,99
90	3.680	3.691	3.637	3.691	3.680	3.691	3.637	3.691	80- 90	6.678	14247	99,99
100	7.604	7.633	7.589	7.633	7.604	7.633	7.589	7.633	90-100	5.985	14253	99,99
110	13.48	13.51	13.49	13.51	13.48	13.51	13.49	13.51	100-110	10.99	14264	99.1,99.1
120	20.80	20.85	20.83	20.85	20.80	20.85	20.83	20.85	110-120	16.90	14281	99.2,99.2
130	28.42	28.44	28.36	28.44	28.42	28.44	28.36	28.44	120-130	22.05	14303	99.4,99.4
140	34.94	34.94	34.91	34.94	34.94	34.94	34.91	34.94	130-140	24.57	14328	99.6,99.6
150	41.31	41.33	41.25	41.33	41.31	41.33	41.25	41.33	140-150	23.83	14351	99.7,99.7
160	47.71	47.38	47.30	47.38	47.71	47.38	47.30	47.38	150-160	20.46	14372	99.9,99.9
170	52.78	52.34	52.18	52.34	52.78	52.34	52.18	52.34	160-170	14.11	14386	100,100
180	55.48	54.89	54.81	54.89	55.48	54.89	54.81	54.89	170-180	5.125	14391	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 9477.8 lm

%lum = 65.9%

%lamp = 65.9%

Conical surface Flux(120deg): 13253 lm

%lum = 92.1%

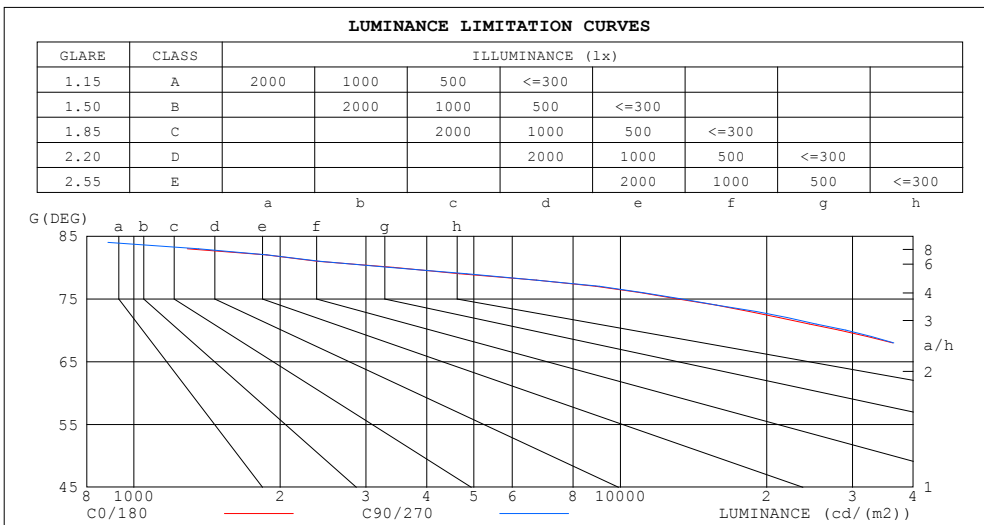
%lamp = 92.1%

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:26 April 2018

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
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:231.5V I:0.4340A P:99.19W PF:0.9873 Freq:49.99Hz Lamp Flux:14391.1x1 lm		
NAME: H09STZ-10-R280-BO-40H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	774	764
80	3418	3344
75	13042	13288
70	28165	29060
65	49902	49952
60	78032	77390
55	115026	113824
50	143230	142056
45	159126	158154

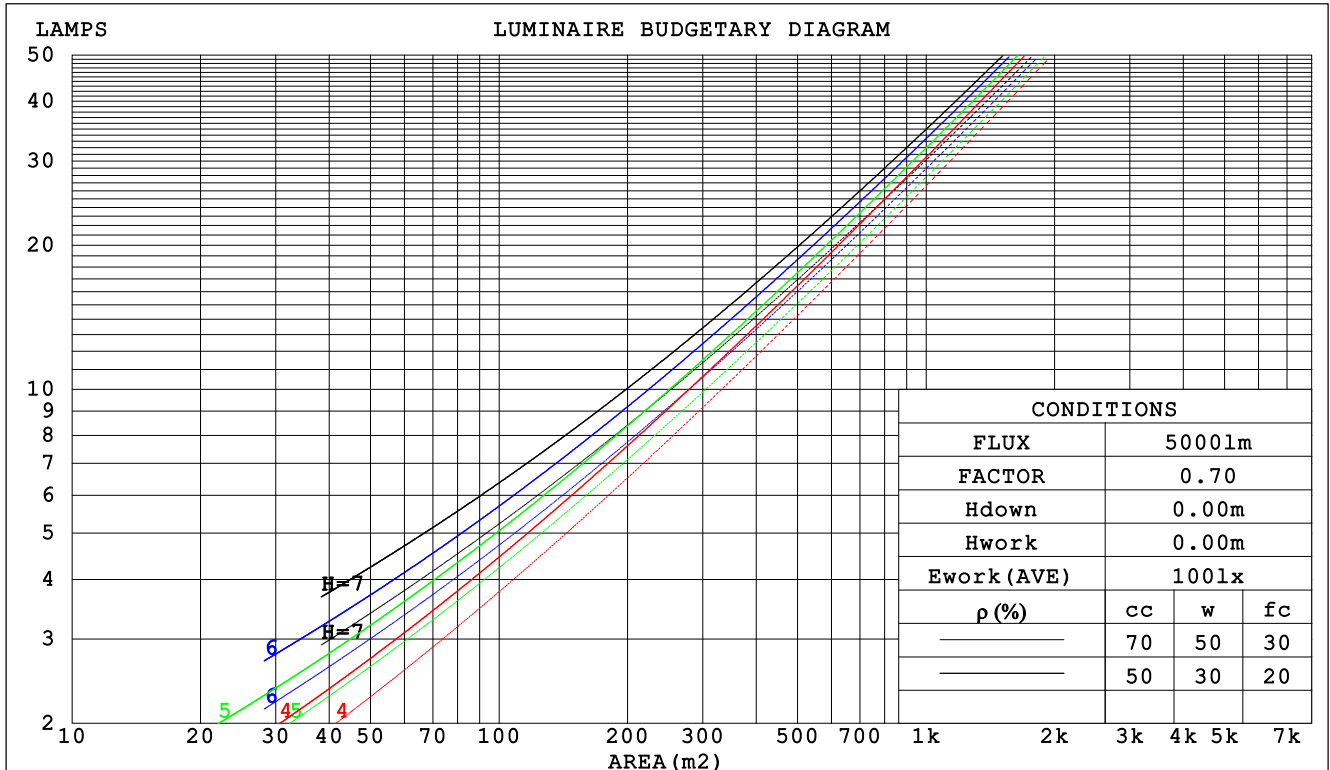
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:26 April 2018

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
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:231.5V I:0.4340A P:99.19W PF:0.9873 Freq:49.99Hz Lamp Flux:14391.1x1 lm		
NAME: H09STZ-10-R280-BO-40H	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	Coefficients of Utilization(CU)															
RCR:Room Cavity Ratio																
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.01	1.01	1.01	.99
1.0	1.07	1.04	1.01	1.05	1.02	.99	1.00	.98	.96	.96	.94	.93	.93	.91	.90	.88
2.0	.95	.90	.85	.94	.88	.84	.90	.86	.82	.87	.83	.80	.84	.81	.78	.76
3.0	.85	.78	.72	.84	.77	.72	.81	.75	.70	.78	.73	.69	.75	.71	.68	.66
4.0	.76	.68	.62	.75	.68	.62	.72	.66	.61	.70	.65	.60	.68	.63	.59	.57
5.0	.69	.60	.54	.67	.60	.54	.65	.59	.53	.63	.57	.53	.61	.56	.52	.50
6.0	.62	.54	.48	.61	.53	.48	.59	.52	.47	.57	.51	.47	.56	.50	.46	.44
7.0	.56	.48	.42	.55	.48	.42	.54	.47	.42	.52	.46	.41	.51	.45	.41	.39
8.0	.51	.43	.38	.51	.43	.38	.49	.42	.37	.48	.42	.37	.47	.41	.37	.35
9.0	.47	.39	.34	.46	.39	.34	.45	.38	.34	.44	.38	.33	.43	.37	.33	.32
10.0	.43	.36	.31	.43	.36	.31	.42	.35	.31	.41	.35	.30	.40	.34	.30	.29



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:26 April 2018

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 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:231.5V I:0.4340A P:99.19W PF:0.9873 Freq:49.99Hz Lamp Flux:14391.1x1 lm		
NAME: H09STZ-10-R280-BO-40H	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	.245	.139	.044	.238	.136	.043	.224	.129	.041	.212	.122	.039	.200	.116	.037		
2.0	.241	.132	.041	.235	.130	.040	.223	.124	.039	.213	.119	.037	.202	.115	.036		
3.0	.231	.123	.037	.226	.121	.036	.215	.117	.035	.206	.113	.035	.197	.109	.034		
4.0	.219	.114	.034	.214	.112	.033	.205	.109	.033	.197	.106	.032	.189	.103	.031		
5.0	.207	.106	.031	.203	.104	.030	.195	.101	.030	.187	.099	.029	.180	.096	.029		
6.0	.195	.098	.028	.191	.097	.028	.184	.094	.027	.177	.092	.027	.171	.090	.027		
7.0	.184	.091	.026	.181	.090	.026	.174	.088	.025	.168	.086	.025	.162	.084	.025		
8.0	.174	.085	.024	.171	.084	.024	.165	.082	.024	.159	.081	.023	.154	.079	.023		
9.0	.164	.080	.022	.162	.079	.022	.156	.077	.022	.151	.076	.022	.146	.074	.021		
10.0	.156	.075	.021	.153	.074	.021	.148	.073	.020	.144	.071	.020	.139	.070	.020		

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	.198	.198	.198	.169	.169	.169	.116	.116	.116	.066	.066	.066	.021	.021	.021	
1.0	.183	.164	.147	.157	.141	.127	.107	.097	.088	.062	.056	.051	.020	.018	.016	
2.0	.173	.140	.112	.148	.120	.097	.102	.083	.067	.059	.048	.040	.019	.016	.013	
3.0	.165	.122	.088	.141	.105	.076	.097	.073	.053	.056	.043	.031	.018	.014	.010	
4.0	.157	.108	.071	.135	.093	.061	.093	.065	.043	.054	.038	.026	.017	.012	.008	
5.0	.150	.098	.058	.129	.084	.051	.089	.059	.036	.052	.035	.021	.017	.011	.007	
6.0	.144	.089	.050	.124	.077	.043	.085	.054	.031	.050	.032	.018	.016	.010	.006	
7.0	.138	.082	.043	.119	.071	.038	.082	.050	.027	.048	.029	.016	.015	.010	.005	
8.0	.132	.076	.038	.114	.066	.033	.079	.046	.024	.046	.027	.014	.015	.009	.005	
9.0	.127	.071	.034	.109	.062	.030	.076	.044	.021	.044	.026	.013	.014	.008	.004	
10.0	.121	.067	.031	.105	.058	.027	.073	.041	.019	.042	.024	.012	.014	.008	.004	

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:26 April 2018

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
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:231.5V I:0.4340A P:99.19W PF:0.9873 Freq:49.99Hz Lamp Flux:14391.1x1 lm										
NAME: H09STZ-10-R280-BO-40H						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	19.7	21.1	20.0	21.3	21.5	19.7	21.1	20.0	21.3	21.5
3H	19.8	21.0	20.1	21.3	21.5	19.8	21.0	20.1	21.3	21.5
4H	19.7	20.9	20.1	21.2	21.4	19.7	20.9	20.0	21.1	21.4
6H	19.6	20.7	20.0	21.0	21.3	19.6	20.7	20.0	21.0	21.3
8H	19.6	20.6	19.9	20.9	21.2	19.6	20.6	19.9	20.9	21.2
12H	19.5	20.5	19.9	20.8	21.2	19.5	20.5	19.9	20.8	21.1
4H 2H	19.8	21.0	20.1	21.2	21.5	19.8	20.9	20.1	21.2	21.5
3H	19.9	20.9	20.3	21.2	21.5	19.9	20.9	20.3	21.2	21.5
4H	19.9	20.8	20.2	21.1	21.4	19.8	20.8	20.2	21.1	21.4
6H	19.8	20.6	20.2	20.9	21.3	19.8	20.6	20.2	20.9	21.3
8H	19.7	20.5	20.2	20.8	21.2	19.7	20.5	20.1	20.8	21.2
12H	19.7	20.4	20.1	20.8	21.2	19.7	20.3	20.1	20.7	21.2
8H 4H	19.8	20.5	20.2	20.9	21.3	19.7	20.5	20.2	20.8	21.2
6H	19.7	20.3	20.1	20.7	21.1	19.7	20.3	20.1	20.7	21.1
8H	19.6	20.2	20.1	20.6	21.1	19.6	20.1	20.1	20.6	21.0
12H	19.6	20.0	20.1	20.5	21.0	19.6	20.0	20.1	20.5	21.0
12H 4H	19.7	20.4	20.1	20.8	21.2	19.7	20.4	20.1	20.8	21.2
6H	19.6	20.2	20.1	20.6	21.1	19.6	20.1	20.1	20.6	21.0
8H	19.6	20.0	20.1	20.5	21.0	19.6	20.0	20.1	20.5	21.0
Variations with the observer position at spacings:										
S = 1.0H	+ 0.8 / - 1.1					+ 0.8 / - 1.1				
1.5H	+ 0.4 / - 0.9					+ 0.5 / - 0.9				
2.0H	+ 1.8 / - 3.1					+ 1.8 / - 3.1				

CIE Pub.117, 14391 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 9.3)

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:26 April 2018

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
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:231.5V I:0.4340A P:99.19W PF:0.9873 Freq:49.99Hz Lamp Flux:14391.1x1 lm		
NAME: H09STZ-10-R280-BO-40H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

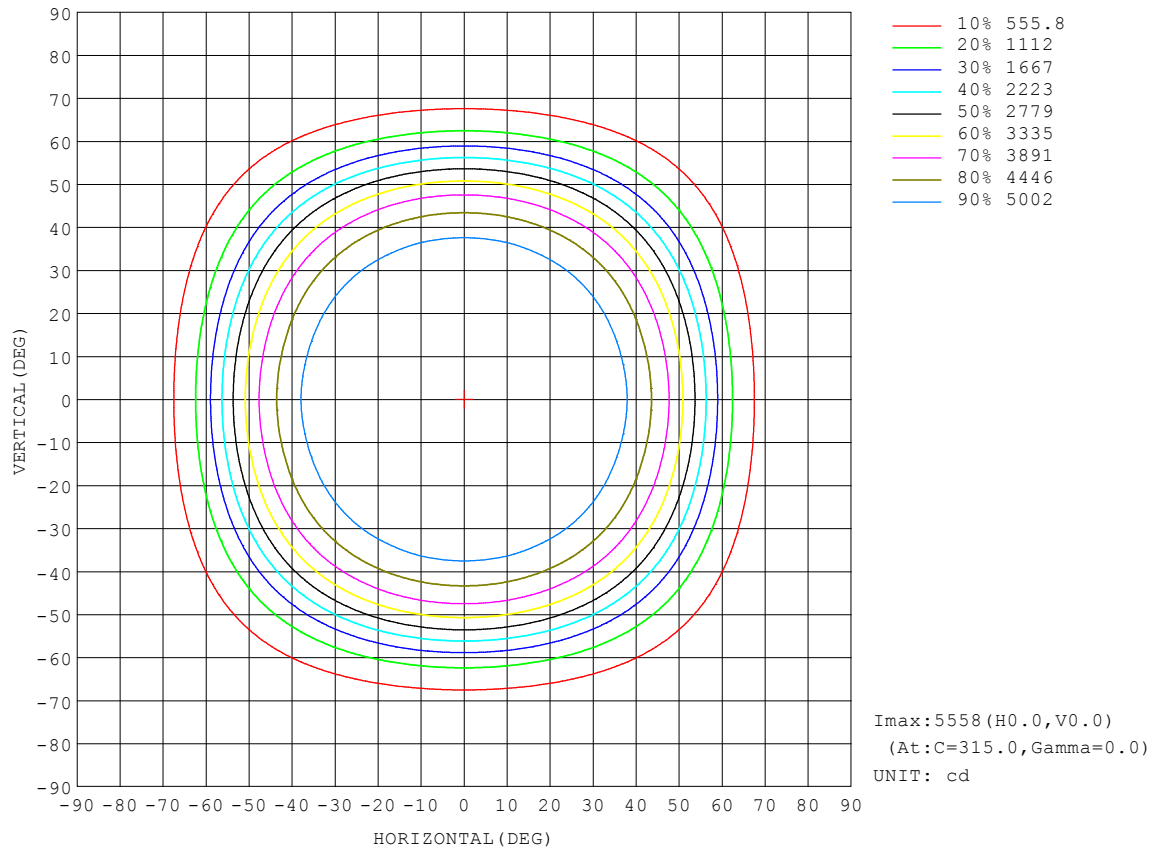
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	62	51	45	61	51	45	60	51	45	39
0.80	73	63	56	72	62	56	70	61	55	49
1.00	82	72	66	81	72	66	79	73	65	59
1.25	89	80	74	88	80	74	85	78	73	67
1.50	94	86	80	92	85	79	89	83	78	72
2.00	100	93	88	98	92	87	95	90	85	78
2.50	103	97	92	101	95	91	97	93	89	81
3.00	106	100	96	104	99	95	100	96	92	85
4.00	109	104	101	107	103	99	102	99	96	88
5.00	111	107	103	108	105	102	104	101	99	90
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 26 April 2018

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
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:231.5V I:0.4340A P:99.19W PF:0.9873 Freq:49.99Hz Lamp Flux:14391.1x1 lm		
NAME: H09STZ-10-R280-BO-40H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

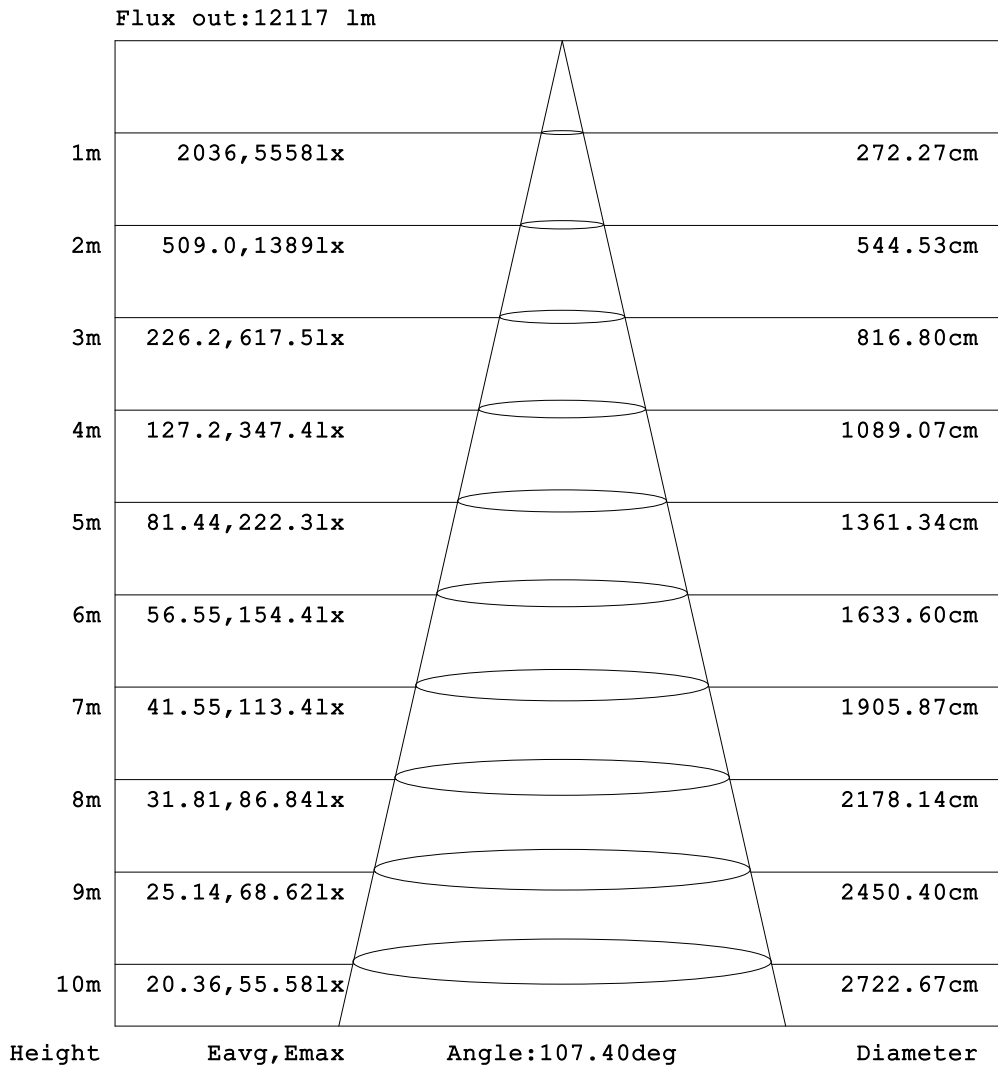


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:26 April 2018

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
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:231.5V I:0.4340A P:99.19W PF:0.9873 Freq:49.99Hz Lamp Flux:14391.1x1 lm		
NAME: H09STZ-10-R280-BO-40H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



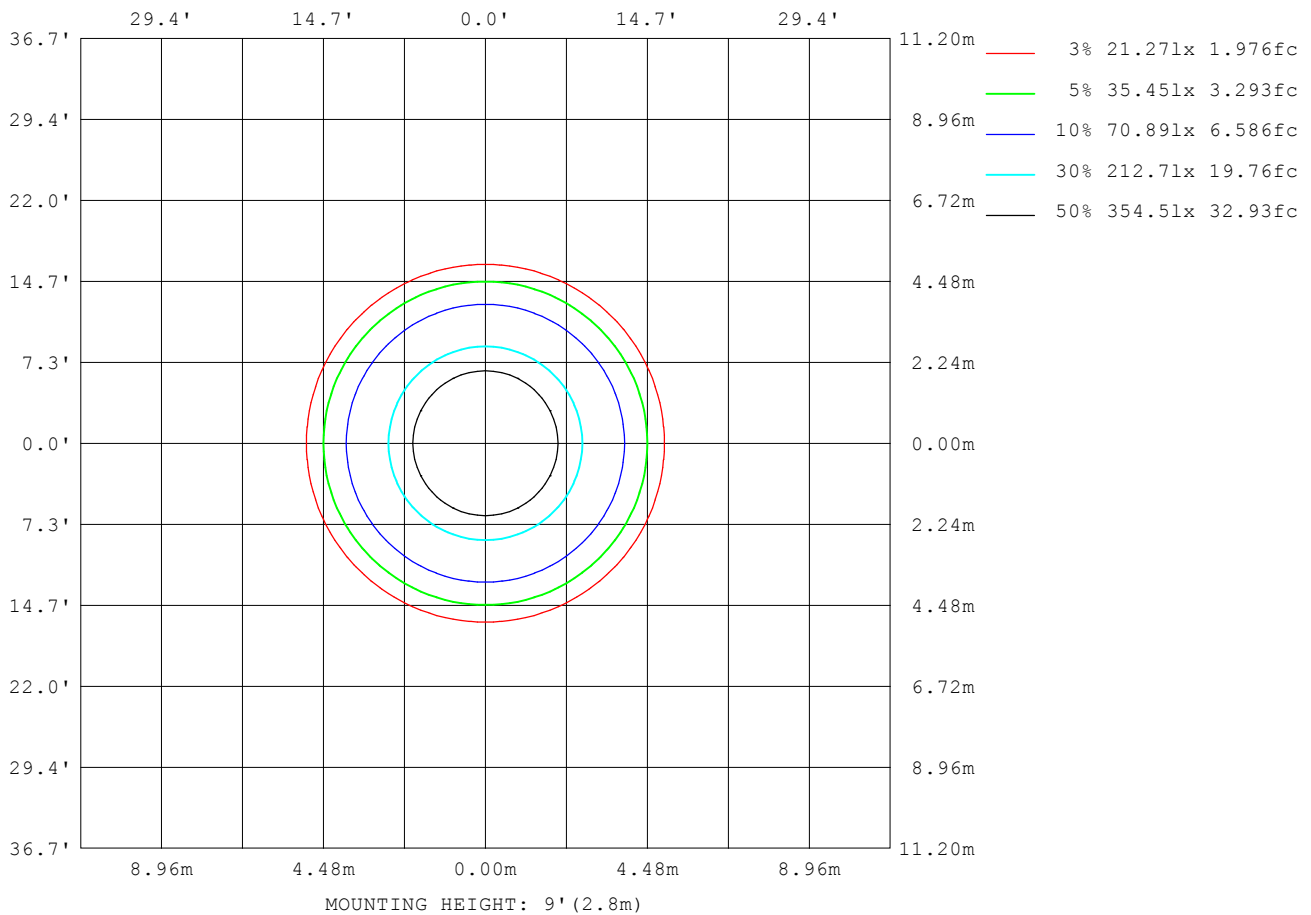
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 26 April 2018

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 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:231.5V I:0.4340A P:99.19W PF:0.9873 Freq:49.99Hz Lamp Flux:14391.1x1 lm		
NAME: H09STZ-10-R280-BO-40H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 26 April 2018

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 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:231.5V I:0.4340A P:99.19W PF:0.9873 Freq:49.99Hz Lamp Flux:14391.1x1 lm		
NAME: H09STZ-10-R280-BO-40H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

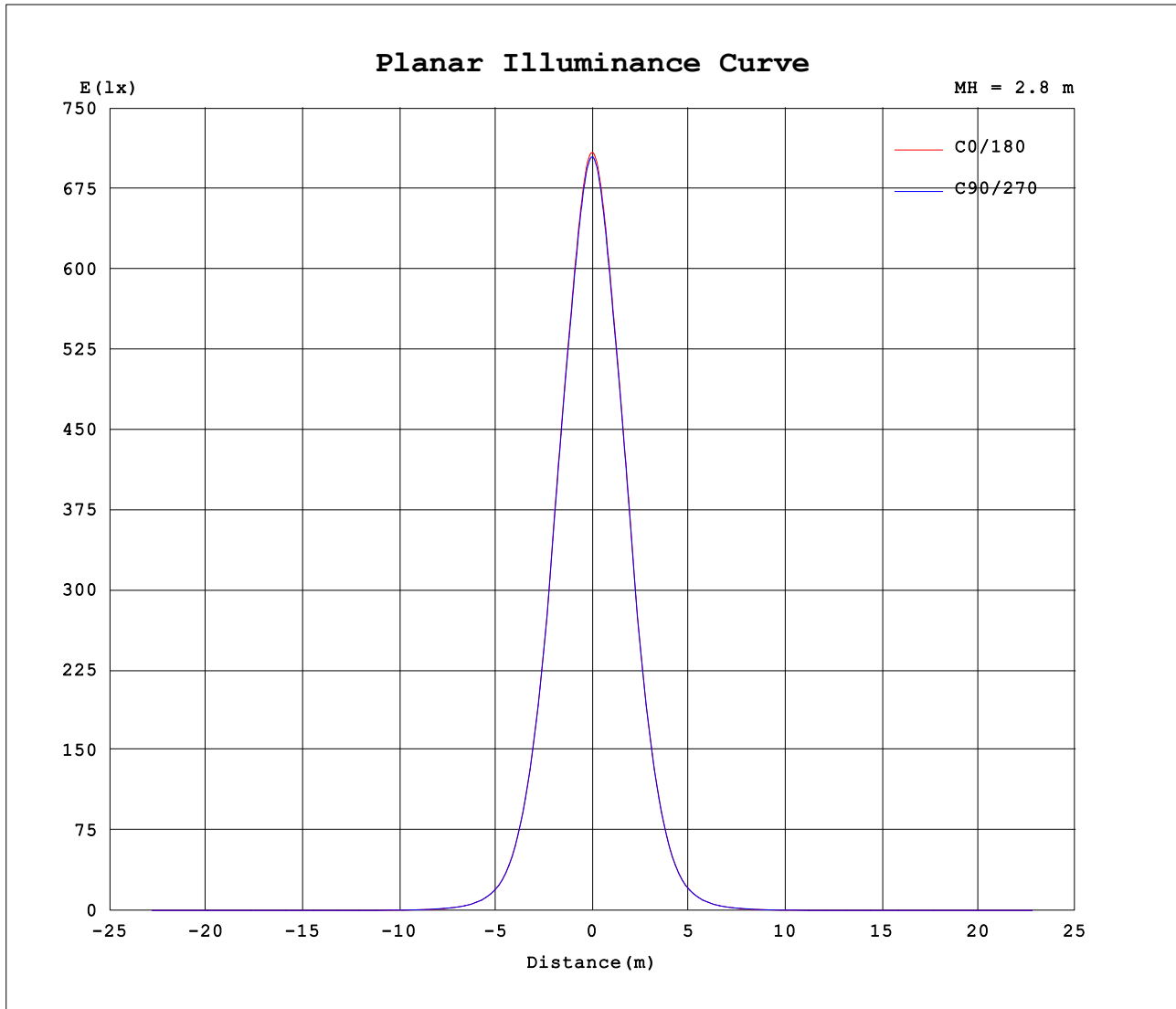
AvgL	cd/m2
L_0~180 (65) av	49644
L_0~180 (75) av	12974
L_0~180 (85) av	770
L_90~270 (65) av	49984
L_90~270 (75) av	13296
L_90~270 (85) av	764
L_45 (65) av	49923
L_45 (75) av	13181
L_45 (85) av	776

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:26 April 2018

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
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 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 26 April 2018

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 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:231.5V I:0.4340A P:99.19W PF:0.9873 Freq:49.99Hz Lamp Flux:14391.1x1 lm		
NAME: H09STZ-10-R280-BO-40H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	5529	5529	5529	5529	5529	5529	5529	5529	5529	5529	5529	5529	5529	5529	5529	5529	5529	5529	5529
5	5518	5518	5516	5516	5515	5515	5514	5515	5515	5516	5516	5518	5518	5518	5516	5516	5515	5515	5514
10	5484	5483	5481	5481	5478	5478	5477	5478	5478	5481	5481	5483	5484	5483	5481	5481	5478	5478	5477
15	5441	5439	5437	5437	5435	5435	5433	5435	5435	5437	5437	5439	5441	5439	5437	5437	5435	5435	5433
20	5412	5410	5408	5407	5406	5406	5404	5406	5406	5407	5408	5410	5412	5410	5408	5407	5406	5406	5404
25	5400	5397	5395	5396	5395	5395	5394	5395	5395	5396	5395	5397	5400	5397	5395	5396	5395	5395	5394
30	5378	5375	5374	5376	5375	5377	5376	5377	5375	5376	5374	5375	5378	5375	5374	5376	5375	5377	5376
35	5221	5215	5210	5209	5207	5210	5207	5210	5207	5209	5210	5215	5221	5215	5210	5209	5207	5210	5207
40	4790	4792	4794	4793	4789	4791	4791	4791	4789	4793	4794	4792	4790	4792	4794	4793	4789	4791	4791
45	4254	4256	4259	4258	4252	4254	4252	4254	4252	4258	4259	4256	4254	4256	4259	4258	4252	4254	4252
50	3480	3484	3483	3483	3477	3477	3472	3477	3477	3483	3483	3484	3480	3484	3483	3483	3477	3477	3472
55	2494	2498	2495	2493	2483	2484	2483	2484	2483	2493	2495	2498	2494	2498	2495	2493	2483	2484	2483
60	1475	1477	1481	1477	1473	1473	1471	1473	1473	1477	1481	1477	1475	1477	1481	1477	1473	1473	1471
65	797	798	801	802	802	801	803	801	802	802	801	798	797	798	801	802	802	801	803
70	364	369	371	369	376	368	378	368	376	369	371	369	364	369	371	369	376	368	378
75	128	129	128	130	132	130	131	130	132	130	128	129	128	129	128	130	132	130	131
80	22.4	21.8	22.1	22.4	22.9	22.8	22.1	22.8	22.9	22.4	22.1	21.8	22.4	21.8	22.1	22.4	22.9	22.8	22.1
85	2.55	2.54	2.53	2.57	2.53	2.55	2.53	2.55	2.53	2.57	2.53	2.54	2.55	2.54	2.53	2.57	2.53	2.55	2.53
90	3.68	3.68	3.68	3.69	3.66	3.68	3.64	3.68	3.66	3.69	3.68	3.68	3.68	3.68	3.68	3.69	3.66	3.68	3.64
95	5.40	5.41	5.41	5.42	5.40	5.43	5.38	5.43	5.40	5.42	5.41	5.41	5.40	5.41	5.41	5.42	5.40	5.43	5.38
100	7.60	7.61	7.61	7.63	7.61	7.64	7.59	7.64	7.61	7.63	7.61	7.61	7.60	7.61	7.61	7.63	7.61	7.64	7.59
105	10.3	10.3	10.3	10.4	10.3	10.4	10.3	10.4	10.3	10.4	10.3	10.3	10.3	10.3	10.3	10.4	10.3	10.4	10.3
110	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
115	17.0	17.0	17.0	17.0	17.0	17.1	17.0	17.1	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.1	17.0
120	20.8	20.8	20.8	20.8	20.9	20.9	20.8	20.9	20.9	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.9	20.9	20.8
125	24.6	24.7	24.7	24.7	24.7	24.7	24.5	24.7	24.7	24.7	24.7	24.7	24.6	24.7	24.7	24.7	24.7	24.7	24.5
130	28.4	28.4	28.4	28.4	28.4	28.5	28.4	28.5	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.4	28.5	28.4
135	32.0	31.8	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.8	32.0	31.8	31.9	31.9	31.9	31.9	31.9
140	34.9	34.9	34.9	34.9	34.9	35.0	34.9	35.0	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	35.0	34.9
145	38.0	38.0	38.0	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.0	38.0	38.0	38.0	38.0	38.1	38.1	38.1	38.1
150	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3
155	44.6	44.4	44.4	44.4	44.4	44.4	44.3	44.4	44.4	44.4	44.4	44.4	44.6	44.4	44.4	44.4	44.4	44.4	44.3
160	47.7	47.5	47.4	47.4	47.3	47.4	47.3	47.4	47.3	47.4	47.4	47.5	47.7	47.5	47.4	47.4	47.3	47.4	47.3
165	50.5	50.2	50.1	50.1	50.0	50.0	49.9	50.0	50.0	50.1	50.1	50.2	50.5	50.2	50.1	50.1	50.0	50.0	49.9
170	52.8	52.5	52.4	52.3	52.2	52.2	52.2	52.2	52.2	52.3	52.4	52.5	52.8	52.5	52.4	52.3	52.2	52.2	52.2
175	54.8	54.6	54.5	54.4	54.3	54.3	54.2	54.3	54.3	54.4	54.5	54.6	54.8	54.6	54.5	54.4	54.3	54.3	54.2
180	55.5	55.1	55.0	54.9	54.9	54.8	54.8	54.8	54.9	54.9	55.0	55.1	55.5	55.1	55.0	54.9	54.9	54.8	54.8

C Range: 0 - 360DEG

C Interval: 15.0DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:

Test Date:26 April 2018

γ Range: 0 - 180DEG

γ Interval: 1.0DEG

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:231.5V I:0.4340A P:99.19W PF:0.9873 Freq:49.99Hz Lamp Flux:14391.1x1 lm		
NAME: H09STZ-10-R280-BO-40H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C (DEG) γ (DEG)	285	300	315	330	345														
0	5529	5529	5529	5529	5529														
5	5515	5515	5516	5516	5518														
10	5478	5478	5481	5481	5483														
15	5435	5435	5437	5437	5439														
20	5406	5406	5407	5408	5410														
25	5395	5395	5396	5395	5397														
30	5377	5375	5376	5374	5375														
35	5210	5207	5209	5210	5215														
40	4791	4789	4793	4794	4792														
45	4254	4252	4258	4259	4256														
50	3477	3477	3483	3483	3484														
55	2484	2483	2493	2495	2498														
60	1473	1473	1477	1481	1477														
65	801	802	802	801	798														
70	368	376	369	371	369														
75	130	132	130	128	129														
80	22.8	22.9	22.4	22.1	21.8														
85	2.55	2.53	2.57	2.53	2.54														
90	3.68	3.66	3.69	3.68	3.68														
95	5.43	5.40	5.42	5.41	5.41														
100	7.64	7.61	7.63	7.61	7.61														
105	10.4	10.3	10.4	10.3	10.3														
110	13.5	13.5	13.5	13.5	13.5														
115	17.1	17.0	17.0	17.0	17.0														
120	20.9	20.9	20.8	20.8	20.8														
125	24.7	24.7	24.7	24.7	24.7														
130	28.5	28.4	28.4	28.4	28.4														
135	31.9	31.9	31.9	31.9	31.8														
140	35.0	34.9	34.9	34.9	34.9														
145	38.1	38.1	38.1	38.0	38.0														
150	41.3	41.3	41.3	41.3	41.3														
155	44.4	44.4	44.4	44.4	44.4														
160	47.4	47.3	47.4	47.4	47.5														
165	50.0	50.0	50.1	50.1	50.2														
170	52.2	52.2	52.3	52.4	52.5														
175	54.3	54.3	54.4	54.5	54.6														
180	54.8	54.9	54.9	55.0	55.1														

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:26 April 2018

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
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]

G/C	0.0	15.0	30.0	45.0	60.0	75.0	90.0	105.0	120.0	135.0
0.0	5529	5529	5529	5529	5529	5529	5529	5529	5529	5529
3.0	5525	5525	5524	5524	5524	5524	5524	5524	5524	5524
6.0	5513	5512	5511	5511	5510	5509	5508	5509	5510	5511
9.0	5492	5491	5490	5489	5487	5487	5486	5487	5487	5489
12.0	5466	5465	5463	5463	5461	5460	5459	5460	5461	5463
15.0	5441	5439	5437	5437	5435	5435	5433	5435	5435	5437
18.0	5422	5419	5417	5416	5415	5415	5413	5415	5415	5416
21.0	5409	5406	5404	5404	5403	5402	5401	5402	5403	5404
24.0	5402	5399	5398	5398	5396	5397	5396	5397	5396	5398
27.0	5395	5392	5391	5392	5390	5392	5391	5392	5390	5392
30.0	5378	5375	5374	5376	5375	5377	5376	5377	5375	5376
33.0	5322	5318	5314	5314	5311	5315	5311	5315	5311	5314
36.0	5146	5142	5137	5136	5134	5137	5137	5137	5134	5136
39.0	4881	4884	4882	4884	4877	4885	4881	4885	4877	4884
42.0	4596	4600	4603	4602	4597	4600	4597	4600	4597	4602
45.0	4254	4256	4259	4258	4252	4254	4252	4254	4252	4258
48.0	3821	3824	3825	3825	3818	3820	3817	3820	3818	3825
51.0	3296	3300	3299	3298	3293	3292	3288	3292	3293	3298
54.0	2704	2708	2707	2705	2698	2697	2695	2697	2698	2705
57.0	2058	2061	2061	2055	2051	2049	2048	2049	2051	2055
60.0	1475	1477	1481	1477	1473	1473	1471	1473	1473	1477
63.0	1031	1033	1037	1036	1035	1035	1035	1035	1035	1036
66.0	685.6	689.3	692.2	691.8	694.4	693.0	697.6	693.0	694.4	691.8
69.0	435.9	440.2	441.9	442.5	444.9	441.4	447.0	441.4	444.9	442.5
72.0	248.0	252.7	250.1	251.5	255.7	251.1	259.3	251.1	255.7	251.5
75.0	127.6	129.4	128.2	129.6	131.6	130.2	130.8	130.2	131.6	129.6
78.0	52.89	51.67	52.39	53.70	54.28	54.99	53.16	54.99	54.28	53.70
81.0	14.10	13.94	14.03	14.18	14.86	14.41	14.35	14.41	14.86	14.18
84.0	3.149	3.148	3.242	3.226	3.417	3.389	3.515	3.389	3.417	3.226
87.0	2.944	2.951	2.938	2.980	2.914	2.941	2.885	2.941	2.914	2.980
90.0	3.680	3.685	3.682	3.691	3.665	3.684	3.637	3.684	3.665	3.691
93.0	4.657	4.665	4.664	4.674	4.650	4.672	4.630	4.672	4.650	4.674
96.0	5.805	5.807	5.816	5.825	5.809	5.827	5.784	5.827	5.809	5.825
99.0	7.126	7.125	7.132	7.156	7.133	7.157	7.109	7.157	7.133	7.156
102.0	8.635	8.636	8.630	8.662	8.635	8.658	8.607	8.658	8.635	8.662
105.0	10.32	10.33	10.32	10.35	10.33	10.36	10.31	10.36	10.33	10.35
108.0	12.17	12.17	12.17	12.21	12.20	12.22	12.17	12.22	12.20	12.21
111.0	14.16	14.14	14.16	14.19	14.18	14.19	14.16	14.19	14.18	14.19
114.0	16.28	16.27	16.29	16.31	16.31	16.33	16.29	16.33	16.31	16.31
117.0	18.50	18.51	18.52	18.55	18.54	18.57	18.52	18.57	18.54	18.55
120.0	20.80	20.82	20.83	20.85	20.85	20.89	20.83	20.89	20.85	20.85
123.0	23.10	23.13	23.13	23.16	23.15	23.20	23.08	23.20	23.15	23.16
126.0	25.41	25.43	25.43	25.44	25.44	25.48	25.42	25.48	25.44	25.44
129.0	27.68	27.65	27.68	27.70	27.62	27.73	27.64	27.73	27.62	27.70
132.0	29.89	29.81	29.84	29.86	29.79	29.88	29.78	29.88	29.79	29.86
135.0	31.98	31.85	31.88	31.92	31.90	31.88	31.86	31.88	31.90	31.92
138.0	33.86	33.76	33.75	33.82	33.79	33.79	33.72	33.79	33.79	33.82
141.0	35.50	35.49	35.49	35.54	35.56	35.57	35.52	35.57	35.56	35.54
144.0	37.39	37.38	37.38	37.41	37.43	37.47	37.42	37.47	37.43	37.41
147.0	39.33	39.33	39.33	39.37	39.37	39.37	39.35	39.37	39.37	39.37
150.0	41.31	41.27	41.30	41.33	41.30	41.30	41.25	41.30	41.30	41.33
153.0	43.27	43.19	43.21	43.22	43.19	43.20	43.14	43.20	43.19	43.22
156.0	45.21	45.04	45.02	44.98	44.95	44.95	44.91	44.95	44.95	44.98
159.0	47.10	46.90	46.83	46.79	46.76	46.77	46.70	46.77	46.76	46.79
162.0	48.90	48.63	48.56	48.53	48.51	48.53	48.43	48.53	48.51	48.53
165.0	50.46	50.20	50.12	50.07	50.02	49.98	49.92	49.98	50.02	50.07
168.0	51.94	51.67	51.61	51.54	51.43	51.41	51.37	51.41	51.43	51.54
171.0	53.14	52.86	52.79	52.68	52.57	52.56	52.53	52.56	52.57	52.68
174.0	54.51	54.28	54.19	54.08	53.98	53.96	53.93	53.96	53.98	54.08
177.0	55.07	54.84	54.72	54.66	54.54	54.54	54.47	54.54	54.54	54.66
180.0	55.48	55.11	54.97	54.89	54.85	54.84	54.81	54.84	54.85	54.89
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	5529	5529	5529	5529	5529	5529	5529	5529	5529	5529
3.0	5524	5525	5525	5525	5524	5524	5524	5524	5524	5524
6.0	5511	5512	5513	5512	5511	5511	5510	5509	5508	5509
9.0	5490	5491	5492	5491	5490	5489	5487	5487	5486	5487
12.0	5463	5465	5466	5465	5463	5463	5461	5460	5459	5460
15.0	5437	5439	5441	5439	5437	5437	5435	5435	5433	5435
18.0	5417	5419	5422	5419	5417	5416	5415	5415	5413	5415
21.0	5404	5406	5409	5406	5404	5404	5403	5402	5401	5402
24.0	5398	5399	5402	5399	5398	5398	5396	5397	5396	5397
27.0	5391	5392	5395	5392	5391	5392	5390	5392	5391	5392
30.0	5374	5375	5378	5375	5374	5376	5375	5377	5376	5377

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:26 April 2018

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
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]

33.0	5314	5318	5322	5318	5314	5314	5311	5315	5311	5315
36.0	5137	5142	5146	5142	5137	5136	5134	5137	5137	5137
39.0	4882	4884	4881	4884	4882	4884	4877	4885	4881	4885
42.0	4603	4600	4596	4600	4603	4602	4597	4600	4597	4600
45.0	4259	4256	4254	4256	4259	4258	4252	4254	4252	4254
48.0	3825	3824	3821	3824	3825	3825	3818	3820	3817	3820
51.0	3299	3300	3296	3300	3299	3298	3293	3292	3288	3292
54.0	2707	2708	2704	2708	2707	2705	2698	2697	2695	2697
57.0	2061	2061	2058	2061	2061	2055	2051	2049	2048	2049
60.0	1481	1477	1475	1477	1481	1477	1473	1473	1471	1473
63.0	1037	1033	1031	1033	1037	1036	1035	1035	1035	1035
66.0	692.2	689.3	685.6	689.3	692.2	691.8	694.4	693.0	697.6	693.0
69.0	441.9	440.2	435.9	440.2	441.9	442.5	444.9	441.4	447.0	441.4
72.0	250.1	252.7	248.0	252.7	250.1	251.5	255.7	251.1	259.3	251.1
75.0	128.2	129.4	127.6	129.4	128.2	129.6	131.6	130.2	130.8	130.2
78.0	52.39	51.67	52.89	51.67	52.39	53.70	54.28	54.99	53.16	54.99
81.0	14.03	13.94	14.10	13.94	14.03	14.18	14.86	14.41	14.35	14.41
84.0	3.242	3.148	3.149	3.148	3.242	3.226	3.417	3.389	3.515	3.389
87.0	2.938	2.951	2.944	2.951	2.938	2.980	2.914	2.941	2.885	2.941
90.0	3.682	3.685	3.680	3.685	3.682	3.691	3.665	3.684	3.637	3.684
93.0	4.664	4.665	4.657	4.665	4.664	4.674	4.650	4.672	4.630	4.672
96.0	5.816	5.807	5.805	5.807	5.816	5.825	5.809	5.827	5.784	5.827
99.0	7.132	7.125	7.126	7.125	7.132	7.156	7.133	7.157	7.109	7.157
102.0	8.630	8.636	8.635	8.636	8.630	8.662	8.635	8.658	8.607	8.658
105.0	10.32	10.33	10.32	10.33	10.32	10.35	10.33	10.36	10.31	10.36
108.0	12.17	12.17	12.17	12.17	12.17	12.21	12.20	12.22	12.17	12.22
111.0	14.16	14.14	14.16	14.14	14.16	14.19	14.18	14.19	14.16	14.19
114.0	16.29	16.27	16.28	16.27	16.29	16.31	16.31	16.33	16.29	16.33
117.0	18.52	18.51	18.50	18.51	18.52	18.55	18.54	18.57	18.52	18.57
120.0	20.83	20.82	20.80	20.82	20.83	20.85	20.85	20.89	20.83	20.89
123.0	23.13	23.13	23.10	23.13	23.13	23.16	23.15	23.20	23.08	23.20
126.0	25.43	25.43	25.41	25.43	25.43	25.44	25.44	25.48	25.42	25.48
129.0	27.68	27.65	27.68	27.65	27.68	27.70	27.62	27.73	27.64	27.73
132.0	29.84	29.81	29.89	29.81	29.84	29.86	29.79	29.88	29.78	29.88
135.0	31.88	31.85	31.88	31.85	31.88	31.92	31.90	31.88	31.86	31.88
138.0	33.75	33.76	33.86	33.76	33.75	33.82	33.79	33.79	33.72	33.79
141.0	35.49	35.49	35.50	35.49	35.49	35.54	35.56	35.57	35.52	35.57
144.0	37.38	37.38	37.39	37.38	37.38	37.41	37.43	37.47	37.42	37.47
147.0	39.33	39.33	39.33	39.33	39.33	39.37	39.37	39.37	39.35	39.37
150.0	41.30	41.27	41.31	41.27	41.30	41.33	41.30	41.30	41.25	41.30
153.0	43.21	43.19	43.27	43.19	43.21	43.22	43.19	43.20	43.14	43.20
156.0	45.02	45.04	45.21	45.04	45.02	44.98	44.95	44.95	44.91	44.95
159.0	46.83	46.90	47.10	46.90	46.83	46.79	46.76	46.77	46.70	46.77
162.0	48.56	48.63	48.90	48.63	48.56	48.53	48.51	48.53	48.43	48.53
165.0	50.12	50.20	50.46	50.20	50.12	50.07	50.02	49.98	49.92	49.98
168.0	51.61	51.67	51.94	51.67	51.61	51.54	51.43	51.41	51.37	51.41
171.0	52.79	52.86	53.14	52.86	52.79	52.68	52.57	52.56	52.53	52.56
174.0	54.19	54.28	54.51	54.28	54.19	54.08	53.98	53.96	53.93	53.96
177.0	54.72	54.84	55.07	54.84	54.72	54.66	54.54	54.54	54.47	54.54
180.0	54.97	55.11	55.48	55.11	54.97	54.89	54.85	54.84	54.81	54.84
G/C	300.0	315.0	330.0	345.0						
0.0	5529	5529	5529	5529						
3.0	5524	5524	5524	5525						
6.0	5510	5511	5511	5512						
9.0	5487	5489	5490	5491						
12.0	5461	5463	5463	5465						
15.0	5435	5437	5437	5439						
18.0	5415	5416	5417	5419						
21.0	5403	5404	5404	5406						
24.0	5396	5398	5398	5399						
27.0	5390	5392	5391	5392						
30.0	5375	5376	5374	5375						
33.0	5311	5314	5314	5318						
36.0	5134	5136	5137	5142						
39.0	4877	4884	4882	4884						
42.0	4597	4602	4603	4600						
45.0	4252	4258	4259	4256						
48.0	3818	3825	3825	3824						
51.0	3293	3298	3299	3300						
54.0	2698	2705	2707	2708						
57.0	2051	2055	2061	2061						
60.0	1473	1477	1481	1477						
63.0	1035	1036	1037	1033						
66.0	694.4	691.8	692.2	689.3						

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:26 April 2018

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
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]

69.0	444.9	442.5	441.9	440.2
72.0	255.7	251.5	250.1	252.7
75.0	131.6	129.6	128.2	129.4
78.0	54.28	53.70	52.39	51.67
81.0	14.86	14.18	14.03	13.94
84.0	3.417	3.226	3.242	3.148
87.0	2.914	2.980	2.938	2.951
90.0	3.665	3.691	3.682	3.685
93.0	4.650	4.674	4.664	4.665
96.0	5.809	5.825	5.816	5.807
99.0	7.133	7.156	7.132	7.125
102.0	8.635	8.662	8.630	8.636
105.0	10.33	10.35	10.32	10.33
108.0	12.20	12.21	12.17	12.17
111.0	14.18	14.19	14.16	14.14
114.0	16.31	16.31	16.29	16.27
117.0	18.54	18.55	18.52	18.51
120.0	20.85	20.85	20.83	20.82
123.0	23.15	23.16	23.13	23.13
126.0	25.44	25.44	25.43	25.43
129.0	27.62	27.70	27.68	27.65
132.0	29.79	29.86	29.84	29.81
135.0	31.90	31.92	31.88	31.85
138.0	33.79	33.82	33.75	33.76
141.0	35.56	35.54	35.49	35.49
144.0	37.43	37.41	37.38	37.38
147.0	39.37	39.37	39.33	39.33
150.0	41.30	41.33	41.30	41.27
153.0	43.19	43.22	43.21	43.19
156.0	44.95	44.98	45.02	45.04
159.0	46.76	46.79	46.83	46.90
162.0	48.51	48.53	48.56	48.63
165.0	50.02	50.07	50.12	50.20
168.0	51.43	51.54	51.61	51.67
171.0	52.57	52.68	52.79	52.86
174.0	53.98	54.08	54.19	54.28
177.0	54.54	54.66	54.72	54.84
180.0	54.85	54.89	54.97	55.11

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:26 April 2018

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:53.0%
Test Distance:10.380m [K=1.0000]
Remarks: