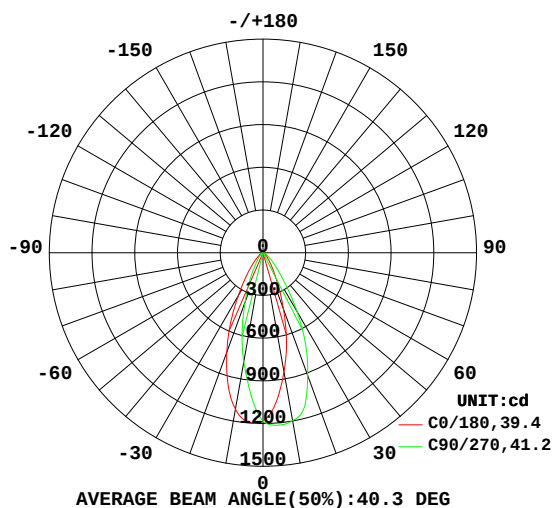


LUMINAIRE PHOTOMETRIC TEST REPORT

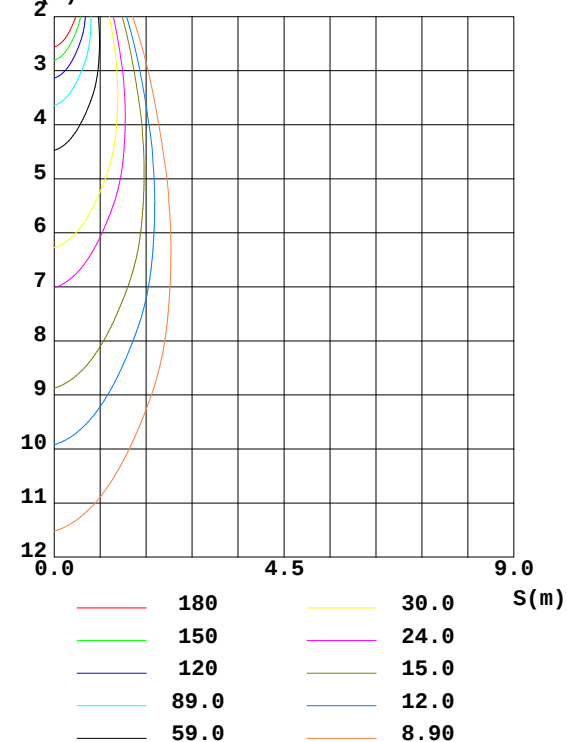
Test:U:11.978V I:1.0143A P:7.5716W PF:0.6232 Freq:50.00Hz Lamp Flux:726.957x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: MR_MR16_S_8bSA-M650ST	DIM.:	SERIAL No.: A2017008G001
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 96.01 lm/W			
MODEL		I _{max} (cd)	1227	S/MH(C0/180)	0.75
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	0.48
RATED VOLTAGE(V)		TOTAL FLUX(lm)	726.96	η UP, DN(C0-180)	0.1, 61.8
NOMINAL FLUX(lm)	726.957	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.1, 38.1
LAMPS INSIDE	1	η up(%)	0.2	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)		η down(%)	99.8	CIBSE SHR MAX	0.70

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 24.7DEG
 Operators: LSC
 Test Date: 2020-09-23

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.429
 Humidity: 48%
 Test Distance: 1.533m [K=1.0000]
 Remarks:

Checker:

Assessor: HXP

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	848.9	1046	1197	1222	1116	923.3	776.5	739.5	0- 10	102.0	102.0	14,14
20	422.9	666.0	918.4	973.8	744.6	534.6	368.3	310.4	10- 20	225.5	327.5	45,45
30	150.1	273.0	481.6	510.5	344.5	206.7	135.4	106.9	20- 30	195.7	523.1	72,72
40	57.31	102.2	173.2	182.0	132.8	74.68	51.03	35.20	30- 40	107.5	630.6	86.7,86.7
50	26.30	36.20	66.88	55.21	52.53	26.30	22.85	19.14	40- 50	48.64	679.2	93.4,93.4
60	14.38	19.33	28.90	25.20	23.16	15.42	11.75	10.51	50- 60	23.71	702.9	96.7,96.7
70	7.177	10.51	14.11	14.44	11.53	7.853	5.772	5.086	60- 70	13.50	716.4	98.6,98.6
80	2.262	4.980	6.975	7.394	5.398	2.756	1.011	0.7172	70- 80	6.917	723.4	99.5,99.5
90	0.0181	0.4918	2.010	2.385	0.8407	0.0093	0.0113	0.0122	80- 90	2.275	725.6	99.8,99.8
100	0.0249	0.0171	0.0141	0.0133	0.0102	0.0144	0.0193	0.0221	90-100	0.2067	725.8	99.8,99.8
110	0.0468	0.0312	0.0219	0.0182	0.0172	0.0256	0.0369	0.0435	100-110	0.0232	725.9	99.8,99.8
120	0.1466	0.0976	0.0659	0.0536	0.0368	0.0549	0.0753	0.0856	110-120	0.0478	725.9	99.9,99.9
130	0.3498	0.2538	0.1816	0.1539	0.0823	0.1153	0.1411	0.1484	120-130	0.1073	726.0	99.9,99.9
140	0.6084	0.4908	0.3908	0.3438	0.1563	0.1958	0.2167	0.2144	130-140	0.1877	726.2	99.9,99.9
150	0.8353	0.7556	0.6615	0.6061	0.2431	0.2802	0.2921	0.2757	140-150	0.2521	726.5	99.9,99.9
160	0.9255	0.9334	0.8998	0.8446	0.3359	0.3705	0.3787	0.3433	150-160	0.2566	726.7	100,100
170	0.8075	0.9064	0.9353	0.8866	0.4112	0.4397	0.4382	0.3966	160-170	0.1856	726.9	100,100
180	0.5458	0.6495	0.6950	0.6666	0.5463	0.5990	0.6809	0.7029	170-180	0.0613	727.0	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 659.79 lm

%lum = 90.8%

%lamp = 90.8%

Conical surface Flux(120deg): 702.93 lm

%lum = 96.7%

%lamp = 96.7%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.7DEG
 Operators:LSC
 Test Date:2020-09-23

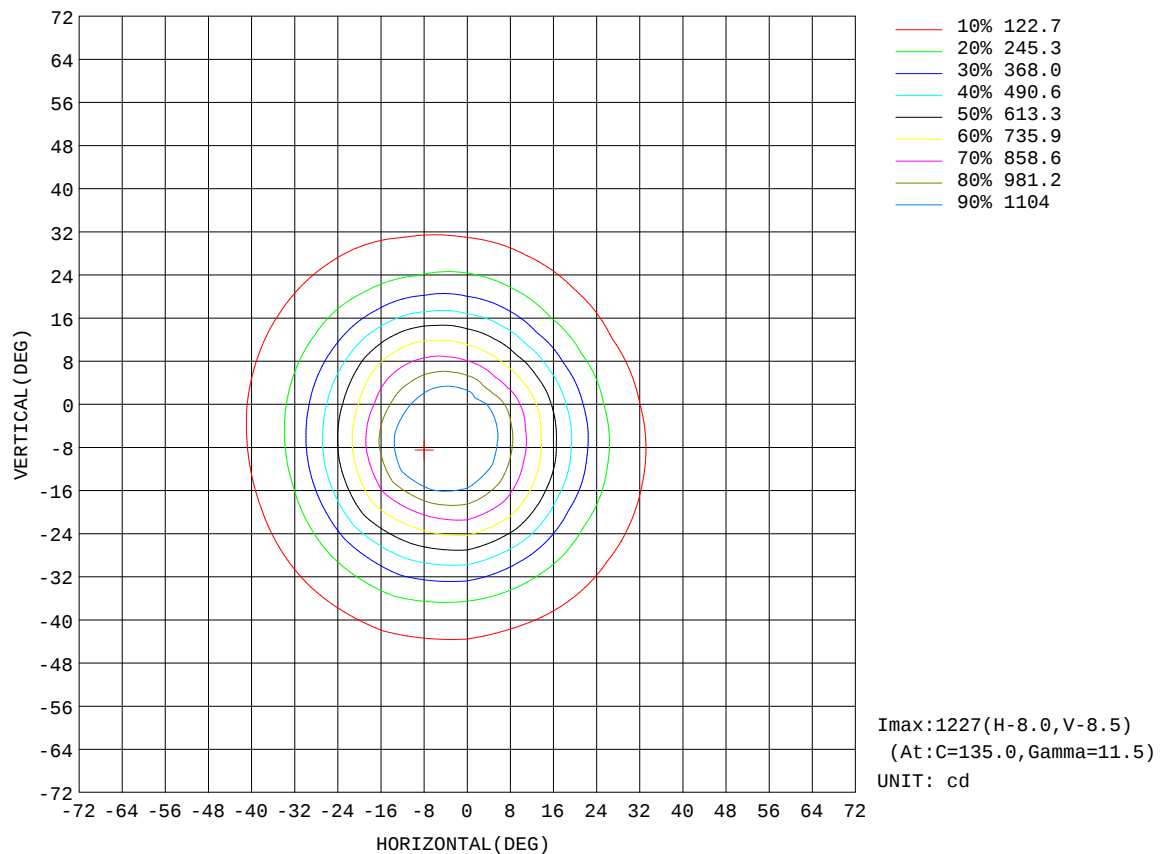
γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.429
 Humidity:48%
 Test Distance:1.533m [K=1.0000]
 Remarks:

Checker:

Assessor: HXP

ISOCANDELA DIAGRAM

Test:U:11.978V I:1.0143A P:7.5716W PF:0.6232 Freq:50.00Hz Lamp Flux:726.957x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: MR_MR16_S_8bSA-M650ST	DIM.:	SERIAL No.: A2017008G001
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:24.7DEG
Operators:LSC
Test Date:2020-09-23

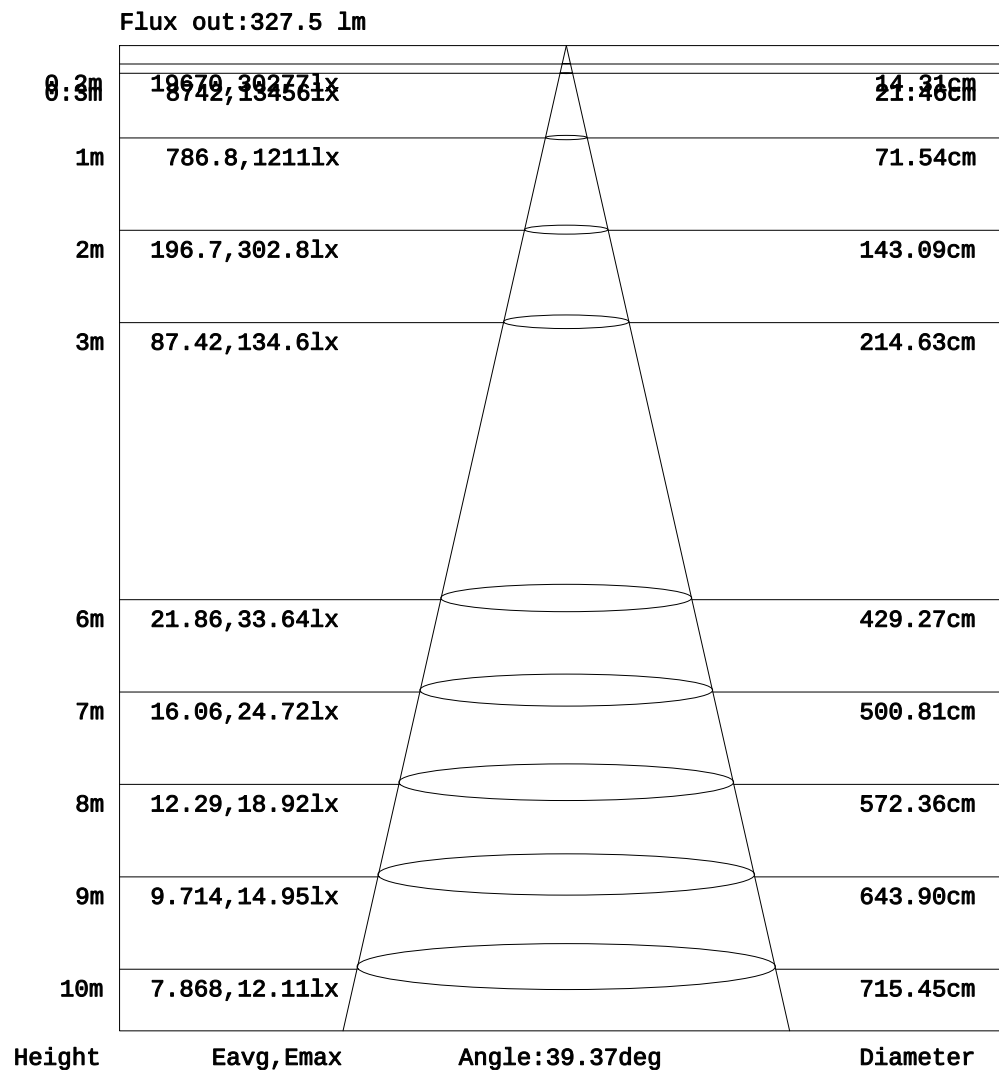
γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.429
Humidity:48%
Test Distance:1.533m [K=1.0000]
Remarks:

Checker:

Assessor: HXP

AAI Figure

Test:U:11.978V I:1.0143A P:7.5716W PF:0.6232 Freq:50.00Hz Lamp Flux:726.957x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: MR_MR16_S_8bSA-M650ST	DIM.:	SERIAL No.: A2017008G001
MFR.:	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: 22.5DEG
 Test Speed: HIGH
 Temperature: 24.7DEG
 Operators: LSC
 Test Date: 2020-09-23

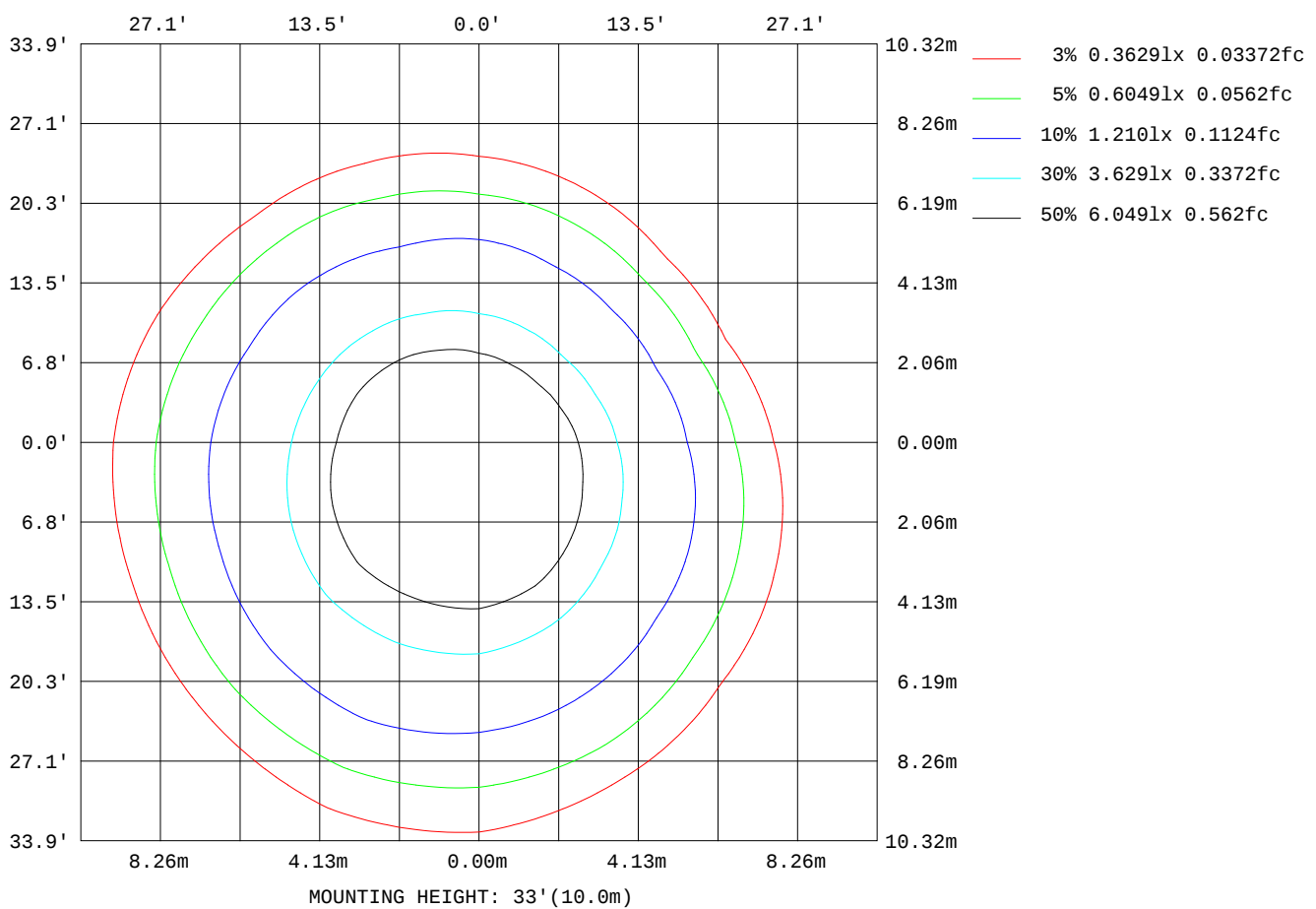
γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.429
 Humidity: 48%
 Test Distance: 1.533m [K=1.0000]
 Remarks:

Checker:

Assessor: HXP

ISOLUX DIAGRAM

Test:U:11.978V I:1.0143A P:7.5716W PF:0.6232 Freq:50.00Hz Lamp Flux:726.957x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: MR_MR16_S_8bSA-M650ST	DIM.:	SERIAL No.: A2017008G001
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 24.7DEG
 Operators: LSC
 Test Date: 2020-09-23

Checker:

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.429
 Humidity: 48%
 Test Distance: 1.533m [K=1.0000]
 Remarks:

Assessor: HXP

LED Avg.L Report

Test:U:11.978V I:1.0143A P:7.5716W PF:0.6232 Freq:50.00Hz Lamp Flux:726.957x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.: MR_MR16_S_8bSA-M650ST	DIM.:	SERIAL No.: A2017008G001
MFR.:	SUR.:	Shielding Angle:

AvgL	cd/m2
L_0~180(65)av	103
L_0~180(75)av	81
L_0~180(85)av	63
L_90~270(65)av	111
L_90~270(75)av	83
L_90~270(85)av	84
L_45(65)av	103
L_45(75)av	82
L_45(85)av	76

Standard: GB/T 29293-2012

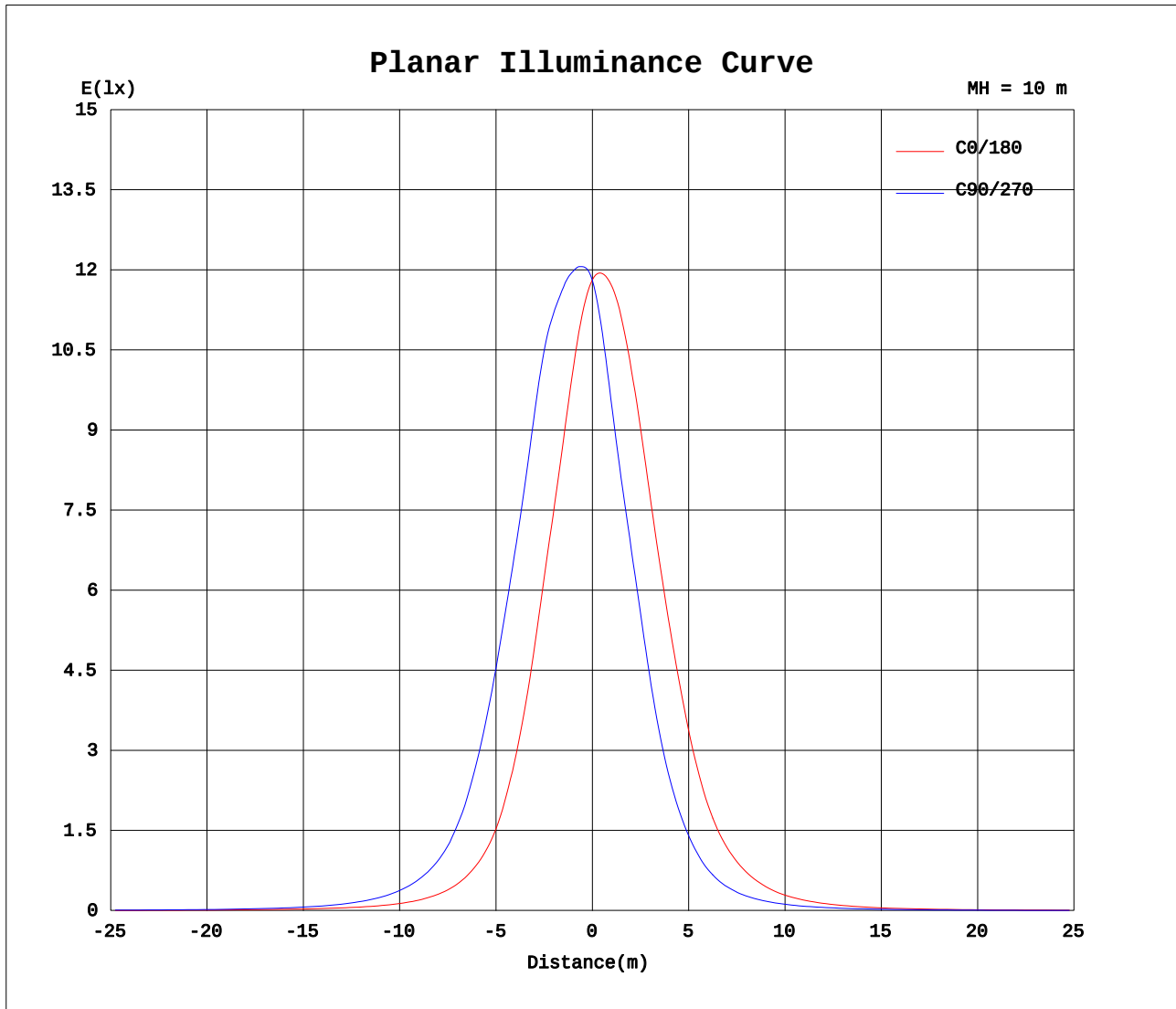
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:24.7DEG
 Operators:LSC
 Test Date:2020-09-23

Checker:

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.429
 Humidity:48%
 Test Distance:1.533m [K=1.0000]
 Remarks:

Assessor: HXP

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 24.7DEG
Operators: LSC
Test Date: 2020-09-23

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE G0-R5000_V2 SYSTEM V2.00.429
Humidity: 48%
Test Distance: 1.533m [K=1.0000]
Remarks:

Checker:

Assessor: HXP

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:11.978V I:1.0143A P:7.5716W PF:0.6232 Freq:50.00Hz Lamp Flux:726.957x1 lm																	
NAME:									TYPE:						WEIGHT:		
SPEC.: MR_MR16_S_8bSA-M650ST									DIM.:						SERIAL No.: A2017008G001		
MFR.:									SUR.:						Shielding Angle:		

Table--1

UNIT: cd

C (DEG) γ (DEG)	C (DEG)																
	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5	
0	1181	1182	1182	1181	1180	1180	1167	1169	1181	1182	1182	1181	1180	1180	1167	1169	
5	1056	1111	1163	1197	1216	1222	1218	1211	1193	1152	1096	1039	996	975	956	988	
10	849	929	1046	1153	1197	1222	1222	1197	1116	1019	923	840	776	745	739	780	
15	640	730	853	1009	1123	1181	1191	1092	953	852	753	644	568	529	515	557	
20	423	528	666	822	918	957	974	876	745	655	535	430	368	333	310	344	
25	254	338	446	600	707	727	744	648	536	430	334	260	229	196	182	198	
30	150	209	273	380	482	517	510	433	345	266	207	158	135	117	107	113	
35	91.1	128	167	229	292	327	308	254	214	166	133	100	80.9	70.2	58.8	63.2	
40	57.3	78.6	102	142	173	192	182	153	133	103	74.7	59.2	51.0	42.6	35.2	38.5	
45	37.6	50.8	58.5	78.8	107	115	101	88.7	81.6	64.8	39.8	34.7	33.4	27.4	24.8	27.0	
50	26.3	33.5	36.2	45.0	66.9	71.1	55.2	51.2	52.5	40.0	26.3	23.5	22.8	19.8	19.1	20.8	
55	19.6	23.8	25.3	30.1	42.8	44.5	34.2	32.0	33.9	26.7	20.0	17.4	16.4	14.8	14.6	16.0	
60	14.4	17.4	19.3	22.4	28.9	29.2	25.2	23.8	23.2	19.3	15.4	13.1	11.7	11.0	10.5	11.5	
65	10.1	12.3	14.8	17.0	20.1	20.5	19.5	18.3	16.5	14.0	10.9	9.36	8.46	7.95	7.64	8.42	
70	7.18	8.93	10.5	12.1	14.1	14.2	14.4	13.8	11.5	9.73	7.85	6.53	5.77	5.29	5.09	5.79	
75	4.62	6.15	7.56	8.81	9.89	10.3	10.3	9.66	8.18	6.75	5.18	4.04	3.26	2.85	2.70	3.36	
80	2.26	3.65	4.98	6.12	6.97	7.37	7.39	6.78	5.40	4.13	2.76	1.66	1.01	0.78	0.72	1.17	
85	0.39	1.30	2.53	3.63	4.45	4.77	4.76	4.17	2.93	1.75	0.72	0.04	0.01	0.01	0.01	0.01	
90	0.02	0.02	0.49	1.29	2.01	2.37	2.38	1.79	0.84	0.07	0.01	0.01	0.01	0.01	0.01	0.01	
95	0.02	0.02	0.02	0.01	0.26	0.46	0.51	0.15	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.01
100	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	
105	0.03	0.03	0.02	0.02	0.02	0.01	0.01	0.02	0.01	0.02	0.02	0.02	0.02	0.03	0.03	0.03	
110	0.05	0.04	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.04	0.04	0.04	0.04	
115	0.08	0.07	0.05	0.04	0.04	0.03	0.03	0.03	0.02	0.03	0.04	0.05	0.05	0.06	0.06	0.06	
120	0.15	0.12	0.10	0.08	0.07	0.06	0.05	0.06	0.04	0.04	0.05	0.07	0.08	0.08	0.09	0.08	
125	0.24	0.20	0.17	0.13	0.11	0.10	0.09	0.10	0.06	0.07	0.08	0.10	0.11	0.11	0.12	0.11	
130	0.35	0.30	0.25	0.21	0.18	0.16	0.15	0.16	0.08	0.10	0.12	0.13	0.14	0.14	0.15	0.14	
135	0.48	0.42	0.36	0.31	0.28	0.25	0.24	0.25	0.12	0.14	0.15	0.17	0.18	0.18	0.18	0.18	
140	0.61	0.55	0.49	0.43	0.39	0.36	0.34	0.36	0.16	0.18	0.20	0.21	0.22	0.21	0.21	0.21	
145	0.74	0.69	0.63	0.57	0.52	0.50	0.47	0.48	0.20	0.22	0.24	0.25	0.25	0.25	0.25	0.24	
150	0.84	0.80	0.76	0.70	0.66	0.63	0.61	0.61	0.24	0.26	0.28	0.29	0.29	0.28	0.28	0.26	
155	0.90	0.88	0.86	0.82	0.79	0.76	0.73	0.72	0.29	0.30	0.32	0.34	0.33	0.32	0.31	0.29	
160	0.93	0.94	0.93	0.92	0.90	0.88	0.84	0.82	0.34	0.35	0.37	0.38	0.38	0.36	0.34	0.32	
165	0.92	0.95	0.98	0.98	0.98	0.96	0.93	0.89	0.38	0.39	0.41	0.42	0.42	0.39	0.37	0.34	
170	0.81	0.86	0.91	0.93	0.94	0.92	0.89	0.84	0.41	0.42	0.44	0.45	0.44	0.42	0.40	0.37	
175	0.69	0.76	0.81	0.85	0.86	0.85	0.82	0.76	0.44	0.44	0.47	0.49	0.49	0.49	0.49	0.46	
180	0.55	0.60	0.65	0.68	0.70	0.68	0.67	0.61	0.55	0.54	0.60	0.65	0.68	0.69	0.70	0.67	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
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γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-R5000_V2 SYSTEM V2.00.429
Humidity:48%
Test Distance:1.533m [K=1.0000]
Remarks:

Checker:

Assessor: HXP