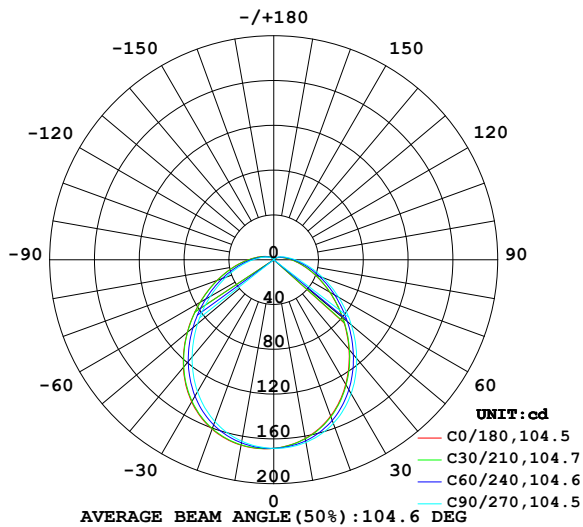


LUMINAIRE PHOTOMETRIC TEST REPORT

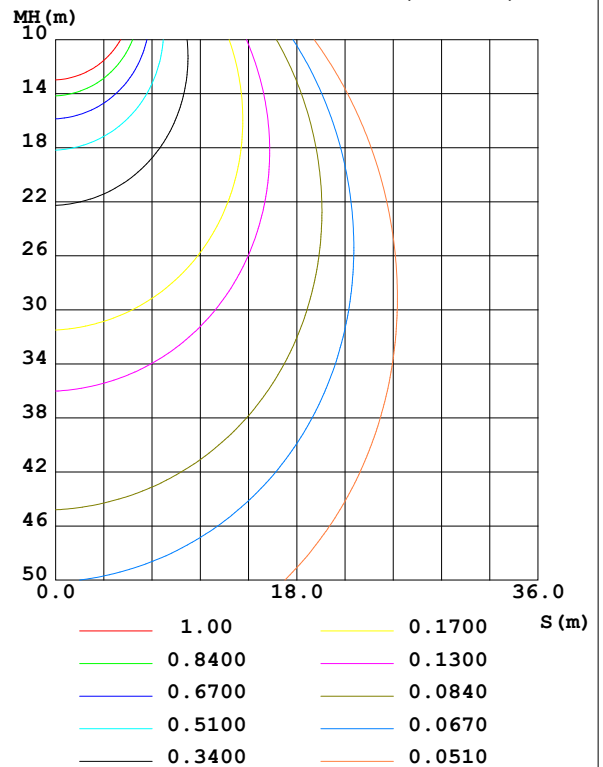
Test:U:120.06V I:0.0512A P:4.9311W PF:0.8015 Freq:60.00Hz Lamp Flux:518.498x1 lm		
NAME: LED5.5R20DIM	TYPE:	WEIGHT:
SPEC.: BR12a_12aSA-BR450ST	DIM.: 0*0*0	SERIAL No.: A2204866B001
MFR.:	SUR.: 0*0*0	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 105.15 lm/W			
MODEL		Imax (cd)	169.6	S/MH (C0/180)	1.29
NOMINAL POWER(W)		LOR (%)	100.0	S/MH (C90/270)	1.21
RATED VOLTAGE (V)		TOTAL FLUX(lm)	518.50	η UP,DN (C0-180)	3.8,46.3
NOMINAL FLUX(lm)	518.498	CIE CLASS	DIRECT	η UP,DN (C180-360)	3.8,46.1
LAMPS INSIDE	1	η up (%)	7.6	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)		η down (%)	92.4	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 24.9°C
 Operators: LSC
 Test Date: 2022-05-26

Checker: HXP

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.450T1.4
 Humidity: 53%
 Test Distance: 1.523m [K=1.0000]
 Remarks:

Assessor:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	162.1	162.8	165.5	168.2	168.1	167.3	164.5	161.8	0- 10	15.92	15.92	3.07,3.07
20	148.5	150.1	155.5	161.0	160.9	159.5	153.8	148.1	10- 20	45.33	61.24	11.8,11.8
30	128.5	130.5	138.2	146.3	146.6	144.5	136.1	128.1	20- 30	67.58	128.8	24.8,24.8
40	104.5	106.5	115.3	125.2	125.6	123.4	113.4	104.2	30- 40	79.08	207.9	40.1,40.1
50	79.88	81.77	90.44	100.4	100.8	98.75	88.87	79.63	40- 50	79.06	287.0	55.3,55.3
60	57.48	59.20	66.81	75.77	76.03	74.21	65.39	57.30	50- 60	69.85	356.8	68.8,68.8
70	39.08	40.49	46.62	53.91	53.87	52.28	45.20	38.78	60- 70	55.52	412.3	79.5,79.5
80	25.13	26.20	30.77	36.17	35.96	34.67	29.39	24.79	70- 80	40.09	452.4	87.3,87.3
90	15.71	16.42	19.37	23.04	22.73	21.82	18.38	15.48	80- 90	26.58	479.0	92.4,92.4
100	9.916	10.34	12.15	14.39	14.17	13.60	11.52	9.756	90-100	16.67	495.7	95.6,95.6
110	6.307	6.576	7.692	9.066	8.902	8.550	7.301	6.178	100-110	10.18	505.9	97.6,97.6
120	4.001	4.167	4.879	5.740	5.594	5.378	4.602	3.902	110-120	6.051	511.9	98.7,98.7
130	2.451	2.557	3.025	3.585	3.486	3.346	2.852	2.395	120-130	3.437	515.4	99.4,99.4
140	1.393	1.460	1.767	2.132	2.101	2.007	1.691	1.398	130-140	1.804	517.2	99.7,99.7
150	0.6813	0.7181	0.9135	1.148	1.351	1.292	1.110	0.9371	140-150	0.8536	518.0	99.9,99.9
160	0.2573	0.2668	0.3666	0.4993	0.8160	0.7852	0.6734	0.5823	150-160	0.3586	518.4	100,100
170	0.1125	0.1126	0.1185	0.1655	0.3601	0.3535	0.2866	0.2454	160-170	0.1082	518.5	100,100
180	0.1462	0.1454	0.1365	0.1269	0.1458	0.1462	0.1374	0.1290	170-180	0.0162	518.5	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 248.1 lm

%lum = 47.9%

%lamp = 47.9%

Conical surface Flux(120deg): 356.82 lm

%lum = 68.8%

%lamp = 68.8%

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:24.9°C
 Operators:LSC
 Test Date:2022-05-26

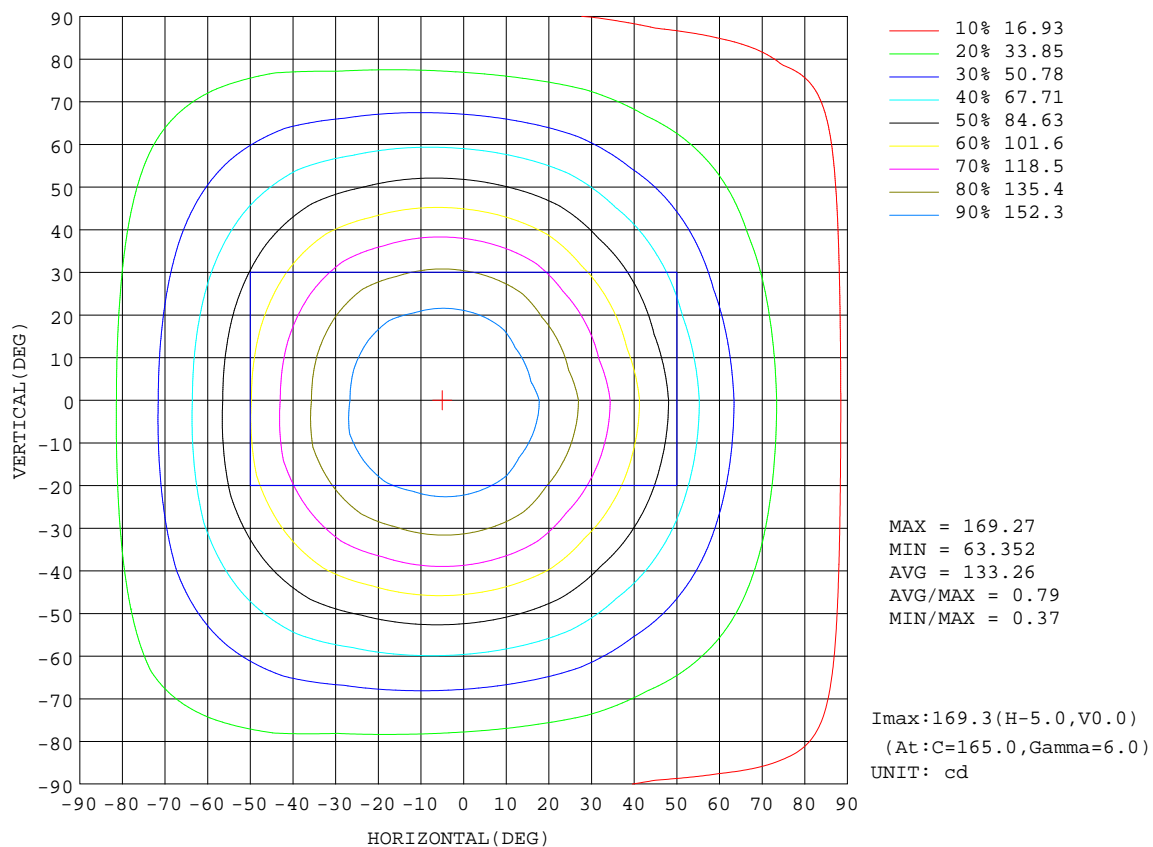
Checker: HXP

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.450T1.4
 Humidity:53%
 Test Distance:1.523m [K=1.0000]
 Remarks:

Assessor:

ISOCANDELA DIAGRAM

Test:U:120.06V I:0.0512A P:4.9311W PF:0.8015 Freq:60.00Hz Lamp Flux:518.498x1 lm		
NAME: LED5.5R20DIM	TYPE:	WEIGHT:
SPEC.: BR12a_12aSA-BR450ST	DIM.: 0*0*0	SERIAL No.: A2204866B001
MFR.:	SUR.: 0*0*0	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:24.9°C
Operators:LSC
Test Date:2022-05-26

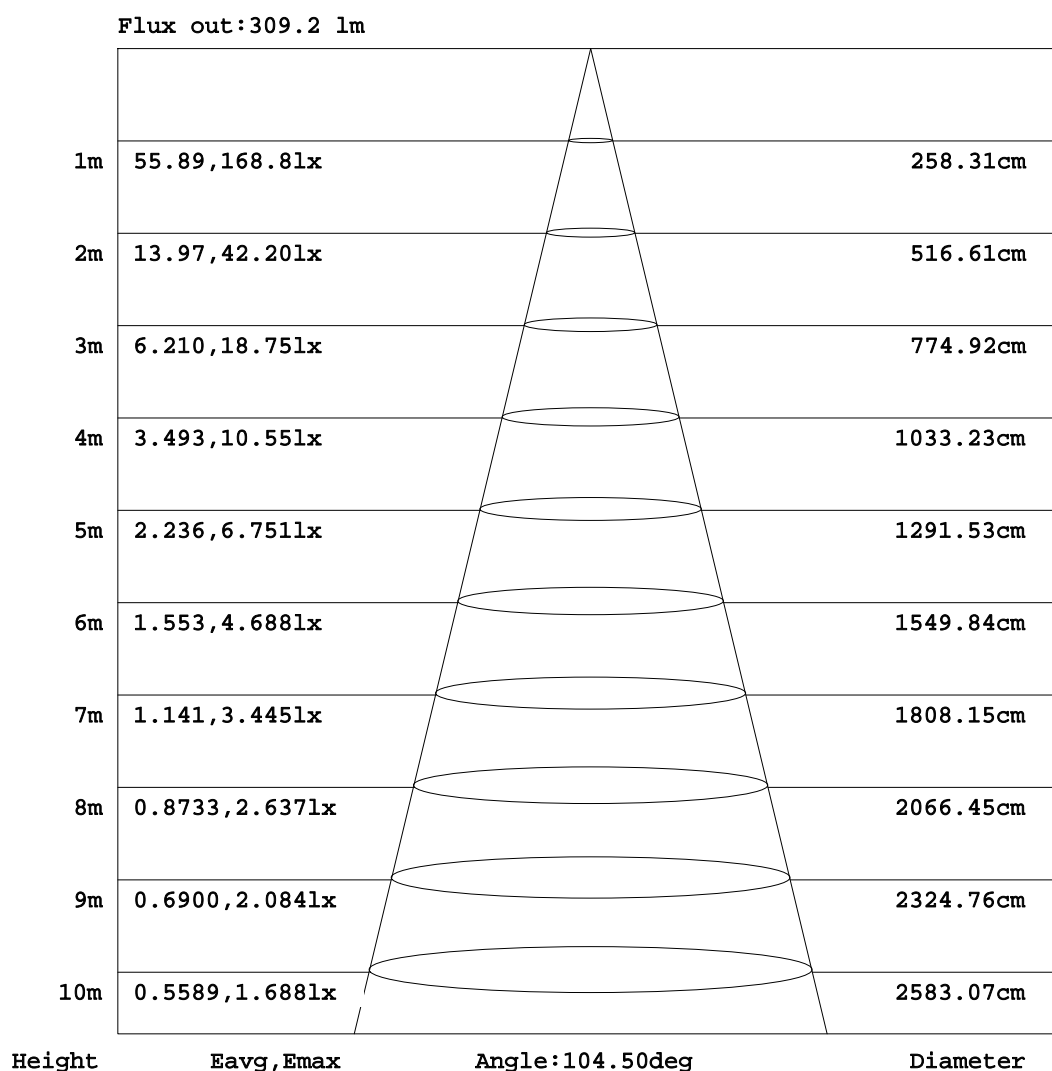
Checker: HXP

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.450T1.4
Humidity:53%
Test Distance:1.523m [K=1.0000]
Remarks:

Assessor:

AAI Figure

Test:U:120.06V I:0.0512A P:4.9311W PF:0.8015 Freq:60.00Hz Lamp Flux:518.498x1 lm		
NAME: LED5.5R20DIM	TYPE:	WEIGHT:
SPEC.: BR12a_12aSA-BR450ST	DIM.: 0*0*0	SERIAL No.: A2204866B001
MFR.:	SUR.: 0*0*0	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:24.9°C
Operators:LSC
Test Date:2022-05-26

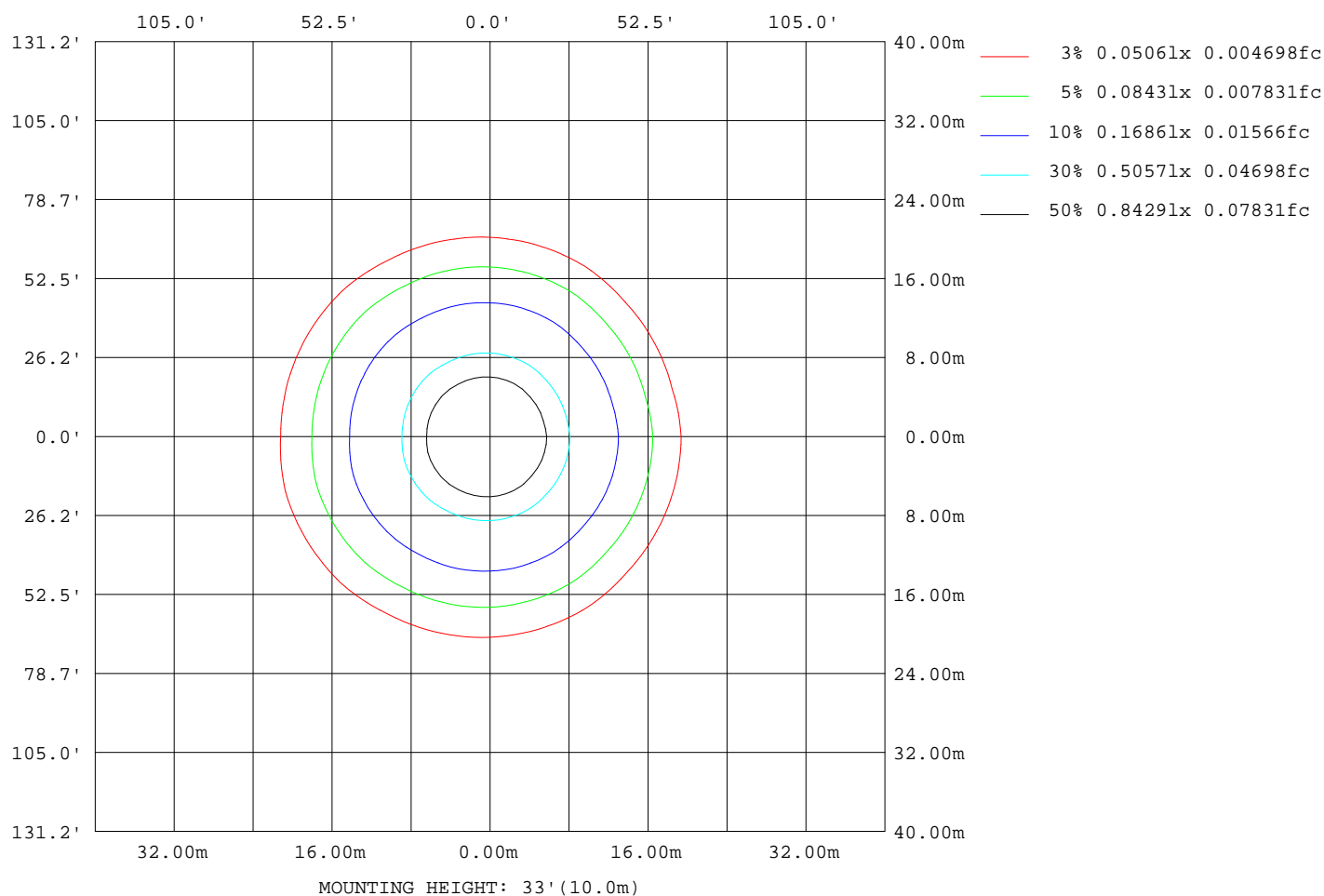
γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.450T1.4
Humidity:53%
Test Distance:1.523m [K=1.0000]
Remarks:

Checker: HXP

Assessor:

ISOLUX DIAGRAM

Test:U:120.06V I:0.0512A P:4.9311W PF:0.8015 Freq:60.00Hz Lamp Flux:518.498x1 lm		
NAME: LED5.5R20DIM	TYPE:	WEIGHT:
SPEC.: BR12a_12aSA-BR450ST	DIM.: 0*0*0	SERIAL No.: A2204866B001
MFR.:	SUR.: 0*0*0	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 24.9°C
Operators: LSC
Test Date: 2022-05-26

Checker: HXP

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.450T1.4
Humidity: 53%
Test Distance: 1.523m [K=1.0000]
Remarks:

Assessor:

LED Avg.L Report

Test:U:120.06V I:0.0512A P:4.9311W PF:0.8015 Freq:60.00Hz Lamp Flux:518.498x1 lm		
NAME: LED5.5R20DIM	TYPE:	WEIGHT:
SPEC.: BR12a_12aSA-BR450ST	DIM.: 0*0*0	SERIAL No.: A2204866B001
MFR.:	SUR.: 0*0*0	Shielding Angle:

AvgL	cd/m2
L_0~180 (65) av	1570
L_0~180 (75) av	1735
L_0~180 (85) av	3298
L_90~270 (65) av	1554
L_90~270 (75) av	1710
L_90~270 (85) av	3240
L_45 (65) av	1567
L_45 (75) av	1730
L_45 (85) av	3291

Standard: GB/T 29293-2012

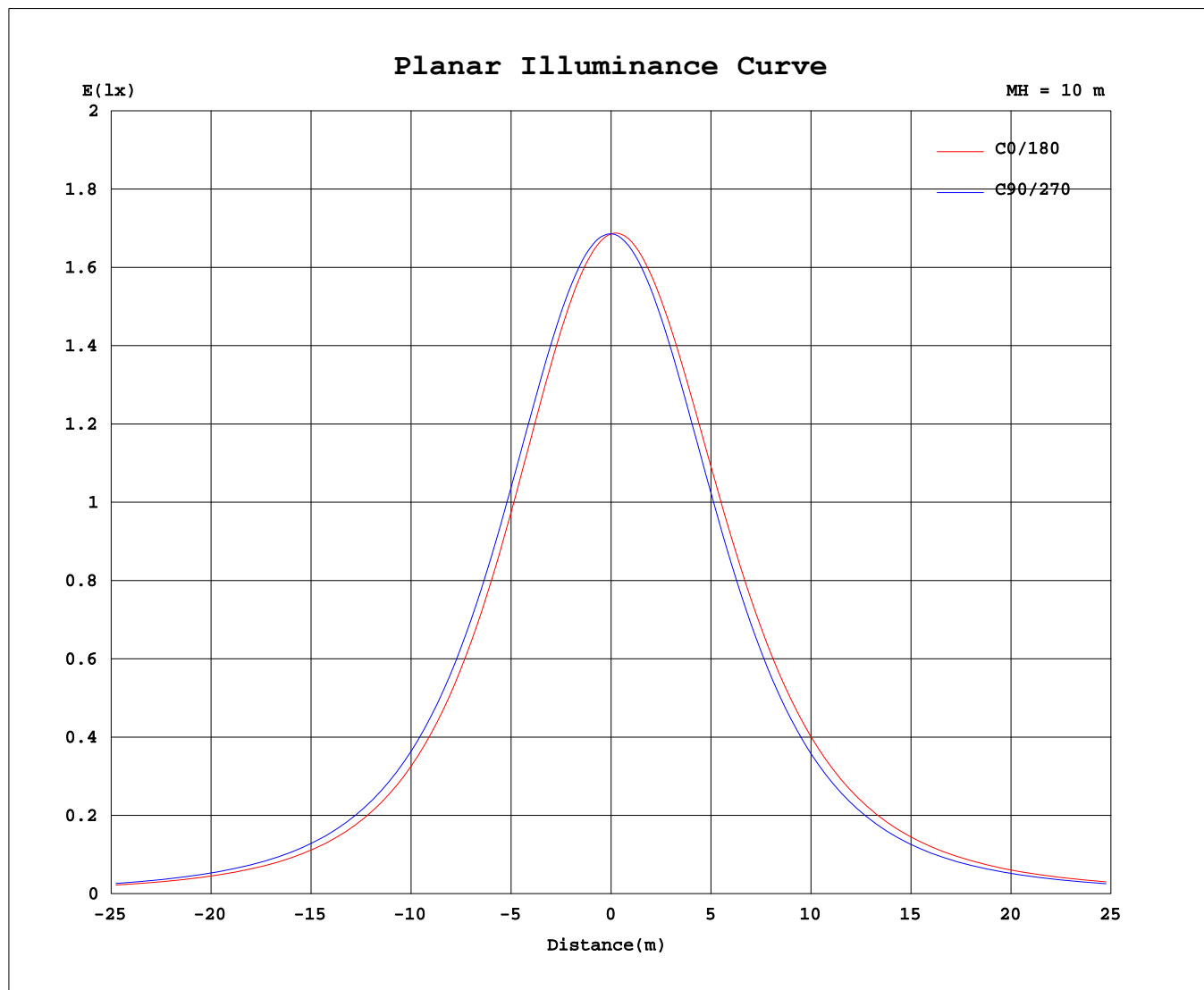
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:24.9℃
Operators:LSC
Test Date:2022-05-26

Checker: HXP

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.450T1.4
Humidity:53%
Test Distance:1.523m [K=1.0000]
Remarks:

Assessor:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 24.9°C
Operators: LSC
Test Date: 2022-05-26

Checker: HXP

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.450T1.4
Humidity: 53%
Test Distance: 1.523m [K=1.0000]
Remarks:

Assessor:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.06V I:0.0512A P:4.9311W PF:0.8015 Freq:60.00Hz Lamp Flux:518.498x1 lm																		
NAME: LED5.5R20DIM									TYPE:					WEIGHT:				
SPEC.: BR12a_12aSA-BR450ST									DIM.: 0*0*0					SERIAL No.: A2204866B001				
MFR.:									SUR.: 0*0*0					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	168	168	168	168	168	168	168	168	168	168	168	168	168	168	168	168	168	168	168
5	166	166	166	166	167	167	168	168	169	169	169	170	169	169	169	169	168	168	167
10	162	162	162	163	164	165	166	166	167	168	169	169	168	168	168	167	166	165	165
15	156	156	157	157	159	160	161	163	164	166	166	167	165	165	165	164	162	161	160
20	149	149	149	150	153	154	155	157	158	161	162	163	161	161	160	159	157	155	154
25	139	139	140	141	144	146	148	150	151	155	156	157	155	155	154	153	150	148	146
30	129	129	129	130	134	136	138	140	142	146	148	149	147	147	146	145	141	138	136
35	117	117	118	119	123	125	127	130	132	136	138	139	137	137	136	135	130	128	125
40	105	105	105	107	111	113	115	118	120	125	127	129	126	126	125	123	119	116	113
45	92.1	92.1	92.8	94.0	98.2	100	103	105	108	113	115	117	113	114	113	111	107	104	101
50	79.9	79.8	80.5	81.8	85.8	88.0	90.4	92.9	95.5	100	102	104	101	101	100	98.8	94.1	91.5	88.9
55	68.2	68.3	68.9	70.1	73.9	76.0	78.3	80.7	83.1	87.9	89.9	91.3	88.2	88.4	87.8	86.3	81.8	79.4	76.8
60	57.5	57.5	58.1	59.2	62.7	64.6	66.8	69.0	71.3	75.8	77.6	79.0	76.0	76.2	75.5	74.2	70.0	67.8	65.4
65	47.7	47.8	48.3	49.3	52.5	54.2	56.2	58.2	60.3	64.4	66.0	67.3	64.5	64.6	64.0	62.8	58.9	56.9	54.8
70	39.1	39.1	39.6	40.5	43.3	44.9	46.6	48.4	50.2	53.9	55.4	56.5	53.9	53.9	53.4	52.3	48.8	47.1	45.2
75	31.6	31.6	32.0	32.8	35.3	36.6	38.1	39.7	41.2	44.5	45.8	46.7	44.3	44.4	43.9	42.9	39.9	38.3	36.7
80	25.1	25.2	25.5	26.2	28.3	29.4	30.8	32.1	33.4	36.2	37.3	38.1	36.0	36.0	35.5	34.7	32.1	30.8	29.4
85	19.9	19.9	20.2	20.8	22.5	23.4	24.5	25.6	26.7	29.0	30.0	30.6	28.7	28.7	28.3	27.6	25.5	24.4	23.3
90	15.7	15.8	16.0	16.4	17.8	18.5	19.4	20.2	21.1	23.0	23.8	24.3	22.7	22.7	22.4	21.8	20.1	19.3	18.4
95	12.5	12.5	12.7	13.0	14.1	14.7	15.3	16.0	16.7	18.2	18.8	19.2	17.9	17.9	17.7	17.2	15.9	15.2	14.5
100	9.92	9.94	10.1	10.3	11.2	11.6	12.1	12.7	13.2	14.4	14.8	15.1	14.2	14.1	14.0	13.6	12.5	12.0	11.5
105	7.91	7.92	8.03	8.25	8.89	9.25	9.66	10.1	10.5	11.4	11.7	12.0	11.2	11.2	11.0	10.8	9.95	9.56	9.16
110	6.31	6.32	6.41	6.58	7.10	7.38	7.69	8.02	8.35	9.07	9.33	9.52	8.90	8.89	8.77	8.55	7.91	7.61	7.30
115	5.03	5.04	5.11	5.24	5.66	5.88	6.13	6.38	6.65	7.21	7.42	7.57	7.08	7.07	6.98	6.80	6.27	6.03	5.79
120	4.00	4.01	4.06	4.17	4.50	4.68	4.88	5.08	5.28	5.74	5.90	6.01	5.59	5.58	5.51	5.38	4.97	4.79	4.60
125	3.15	3.15	3.19	3.29	3.56	3.71	3.87	4.02	4.19	4.55	4.68	4.76	4.43	4.42	4.36	4.25	3.93	3.79	3.64
130	2.45	2.45	2.49	2.56	2.78	2.90	3.02	3.15	3.30	3.58	3.69	3.76	3.49	3.48	3.43	3.35	3.08	2.97	2.85
135	1.87	1.88	1.91	1.96	2.14	2.23	2.34	2.44	2.55	2.78	2.87	2.92	2.72	2.71	2.67	2.60	2.39	2.30	2.21
140	1.39	1.40	1.42	1.46	1.61	1.68	1.77	1.85	1.93	2.13	2.20	2.24	2.10	2.10	2.06	2.01	1.84	1.77	1.69
145	1.00	1.00	1.02	1.05	1.17	1.23	1.30	1.36	1.43	1.59	1.64	1.68	1.63	1.62	1.59	1.55	1.43	1.38	1.32
150	0.68	0.68	0.69	0.72	0.81	0.86	0.91	0.96	1.02	1.15	1.19	1.22	1.35	1.35	1.33	1.29	1.20	1.15	1.11
155	0.43	0.43	0.44	0.46	0.53	0.56	0.60	0.64	0.68	0.78	0.82	0.84	1.07	1.07	1.05	1.03	0.94	0.91	0.88
160	0.26	0.26	0.26	0.27	0.31	0.34	0.37	0.39	0.42	0.50	0.52	0.54	0.82	0.82	0.81	0.79	0.72	0.69	0.67
165	0.15	0.15	0.15	0.15	0.18	0.19	0.21	0.22	0.24	0.29	0.31	0.32	0.59	0.60	0.59	0.58	0.52	0.51	0.49
170	0.11	0.11	0.11	0.11	0.12	0.11	0.12	0.13	0.14	0.17	0.18	0.18	0.36	0.36	0.36	0.35	0.30	0.29	0.29
175	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.12	0.12	0.12	0.20	0.20	0.20	0.20	0.18	0.18	0.18
180	0.15	0.15	0.15	0.15	0.14	0.14	0.14	0.14	0.13	0.13	0.13	0.13	0.15	0.15	0.15	0.15	0.14	0.14	0.14

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:24.9℃
Operators:LSC
Test Date:2022-05-26

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.450T1.4
Humidity:53%
Test Distance:1.523m [K=1.0000]
Remarks:

Checker: HXP

Assessor:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.06V I:0.0512A P:4.9311W PF:0.8015 Freq:60.00Hz Lamp Flux:518.498x1 lm		
NAME: LED5.5R20DIM	TYPE:	WEIGHT:
SPEC.: BR12a_12aSA-BR450ST	DIM.: 0*0*0	SERIAL No.: A2204866B001
MFR.:	SUR.: 0*0*0	Shielding Angle:

Table--2

UNIT: cd

C (DEG) γ (DEG)	285	300	315	330	345													
0	168	168	168	168	168													
5	167	167	166	166	166													
10	164	163	162	161	161													
15	159	158	156	155	155													
20	152	151	148	147	147													
25	144	142	139	138	137													
30	134	132	128	127	126													
35	123	120	116	115	114													
40	111	108	104	103	102													
45	98.5	96.1	91.8	90.2	89.1													
50	86.2	83.9	79.6	78.1	77.0													
55	74.4	72.1	68.1	66.6	65.6													
60	63.1	61.0	57.3	55.9	55.0													
65	52.7	50.9	47.5	46.3	45.5													
70	43.4	41.7	38.8	37.7	37.0													
75	35.2	33.7	31.2	30.3	29.7													
80	28.1	26.9	24.8	24.1	23.6													
85	22.2	21.3	19.6	19.0	18.6													
90	17.6	16.8	15.5	15.0	14.8													
95	13.9	13.3	12.3	11.9	11.7													
100	11.0	10.6	9.76	9.49	9.32													
105	8.78	8.42	7.78	7.56	7.43													
110	7.00	6.71	6.18	6.01	5.90													
115	5.55	5.33	4.92	4.78	4.70													
120	4.41	4.23	3.90	3.79	3.73													
125	3.49	3.34	3.07	2.99	2.93													
130	2.73	2.61	2.39	2.32	2.28													
135	2.11	2.02	1.84	1.78	1.74													
140	1.61	1.54	1.40	1.35	1.32													
145	1.26	1.20	1.11	1.07	1.05													
150	1.06	1.01	0.94	0.91	0.89													
155	0.85	0.81	0.74	0.72	0.71													
160	0.65	0.63	0.58	0.57	0.56													
165	0.48	0.46	0.42	0.43	0.42													
170	0.28	0.27	0.25	0.24	0.24													
175	0.18	0.18	0.17	0.17	0.17													
180	0.14	0.14	0.13	0.13	0.13													

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:24.9℃
Operators:LSC
Test Date:2022-05-26

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.450T1.4
Humidity:53%
Test Distance:1.523m [K=1.0000]
Remarks:

Checker: HXP

Assessor: