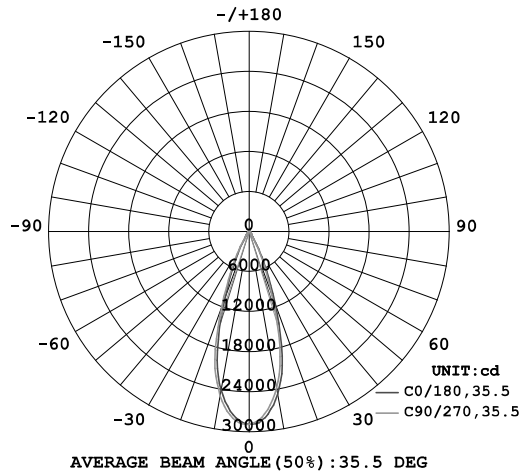


LUMINAIRE PHOTOMETRIC TEST REPORT

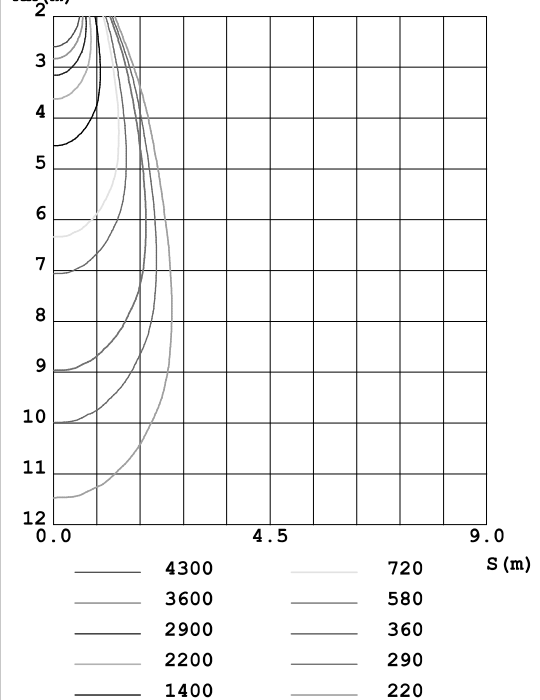
Test:U:226.02V I:0.4431A P:99.135W PF:0.9899 Freq:49.98Hz Lamp Flux:11988.6x1 lm		
NAME: LED lens	TYPE:	WEIGHT:4kg
SPEC.:	DIM.: 1500*76*70	SERIAL No.:CSLS19L06YF00104393
MFR.: LEDMADA	SUR.:1500*70*76	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 120.93 lm/W			
MODEL	Lumileds	I _{max} (cd)	28913	S/MH (C0/180)	0.55
NOMINAL POWER (W)	50	LOR (%)	100.0	S/MH (C90/270)	0.57
RATED VOLTAGE (V)	230	TOTAL FLUX (lm)	11989	□ UP, DN (C0-180)	0.5, 48.8
NOMINAL FLUX (lm)	11988.6	CIE CLASS	DIRECT	□ UP, DN (C180-360)	0.4, 50.3
LAMPS INSIDE	1	□ up (%)	0.9	CIBSE SHR NOM	0.50
TEST VOLTAGE (V)	230.0	□ down (%)	99.1	CIBSE SHR MAX	0.55

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: LYH
Test Date: 2020.8.5

□ Range: 0 - 180DEG
□ Interval: 1.0DEG
Test System: EVERFINE GO-2000 SYSTEM V2.0.366
Humidity: 65.0%
Test Distance: 8.350m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

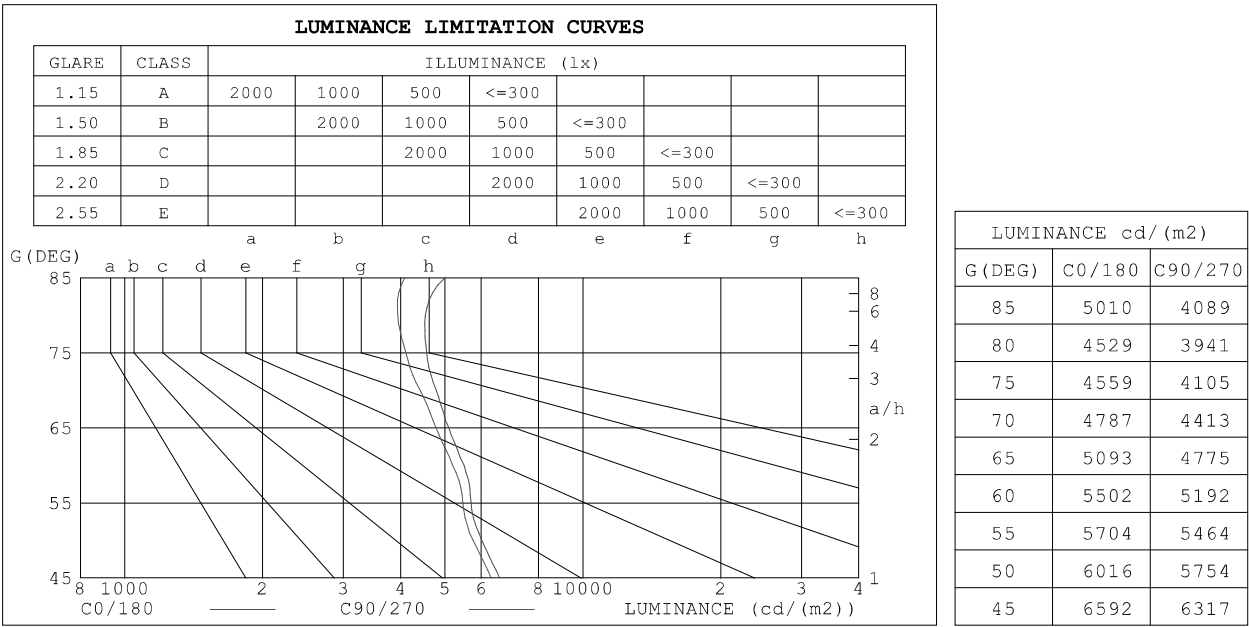
ZONAL FLUX DIAGRAM:

mm	C0	C90	C180	C270					mm	□ zone	□ total	%lum, lamp
10	2473	2387	2415	2501					0- 10	2541	2541	21.2, 21.2
20	1148	1000	1052	1198					10- 20	5000	7542	62.9, 62.9
30	243.3	195.4	208.6	261.9					20- 30	2596	10138	84.6, 84.6
40	62.85	59.85	61.38	64.26					30- 40	668.2	10806	90.1, 90.1
50	40.52	38.92	39.64	41.26					40- 50	380.0	11186	93.3, 93.3
60	28.82	27.31	27.97	29.11					50- 60	304.1	11490	95.8, 95.8
70	17.16	15.88	16.62	17.34					60- 70	220.5	11711	97.7, 97.7
80	8.241	7.201	7.760	8.257					70- 80	127.2	11838	98.7, 98.7
90	1.503	1.058	1.254	1.324					80- 90	47.14	11885	99.1, 99.1
100	0.8861	0.6544	0.8432	0.6791					90-100	10.39	11896	99.2, 99.2
110	0.5829	0.4590	0.5400	0.4643					100-110	6.640	11902	99.3, 99.3
120	0.5105	0.4781	0.4523	0.3800					110-120	4.568	11907	99.3, 99.3
130	1.015	1.088	0.8610	0.7326					120-130	5.572	11912	99.4, 99.4
140	2.507	2.566	2.206	1.848					130-140	11.70	11924	99.5, 99.5
150	4.566	4.434	4.148	3.539					140-150	19.99	11944	99.6, 99.6
160	5.979	5.715	5.532	4.964					150-160	22.70	11967	99.8, 99.8
170	6.189	5.878	5.919	5.483					160-170	16.31	11983	100, 100
180	6.094	5.736	6.120	5.724					170-180	5.607	11989	100, 100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:LYH
 Test Date:2020.8.5

□ Range: 0 - 180DEG
 □ Interval: 1.0DEG
 Test System:EVERFINE GO-2000 SYSTEM V2.0.366
 Humidity:65.0%
 Test Distance:8.350m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:LYH
Test Date:2020.8.5

☐ Range: 0 - 180DEG
☐ Interval: 1.0DEG
Test System:EVERFINE GO-2000 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.350m [K=1.0000]
Remarks:

WEC AND CCEC

□cc	80%			70%			50%			30%			10%			0	
□w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
□fc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)										
0.0																	
1.0	.171	.097	.031	.164	.094	.030	.151	.087	.028	.139	.080	.026	.128	.074	.024		
2.0	.159	.087	.027	.154	.085	.026	.143	.079	.025	.133	.074	.023	.123	.070	.022		
3.0	.149	.079	.024	.144	.077	.023	.134	.073	.022	.126	.069	.021	.118	.065	.020		
4.0	.139	.072	.021	.135	.071	.021	.127	.067	.020	.120	.064	.019	.113	.061	.019		
5.0	.131	.067	.019	.127	.065	.019	.120	.063	.018	.114	.060	.018	.108	.058	.017		
6.0	.124	.062	.018	.120	.061	.018	.114	.059	.017	.109	.057	.017	.103	.054	.016		
7.0	.117	.058	.016	.114	.057	.016	.109	.055	.016	.104	.053	.016	.099	.052	.015		
8.0	.111	.054	.015	.109	.054	.015	.104	.052	.015	.100	.051	.015	.096	.049	.014		
9.0	.106	.051	.014	.104	.051	.014	.100	.049	.014	.096	.048	.014	.092	.047	.014		
10.0	.101	.049	.014	.099	.048	.013	.096	.047	.013	.092	.046	.013	.089	.045	.013		

□cc	80%			70%			50%			30%			10%			0
□w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
□fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.197	.197	.197	.168	.168	.168	.115	.115	.115	.066	.066	.066	.021	.021	.021	
1.0	.177	.164	.152	.152	.141	.131	.104	.097	.090	.060	.056	.053	.019	.018	.017	
2.0	.161	.139	.121	.138	.120	.104	.095	.083	.073	.055	.048	.043	.018	.016	.014	
3.0	.148	.120	.098	.127	.104	.085	.087	.072	.060	.050	.042	.035	.016	.014	.012	
4.0	.137	.105	.081	.117	.091	.071	.081	.063	.050	.047	.037	.029	.015	.012	.010	
5.0	.127	.093	.069	.109	.081	.060	.075	.056	.042	.043	.033	.025	.014	.011	.008	
6.0	.119	.084	.059	.102	.073	.051	.070	.051	.036	.041	.030	.022	.013	.010	.007	
7.0	.111	.076	.051	.096	.066	.045	.066	.046	.032	.038	.027	.019	.012	.009	.006	
8.0	.105	.069	.045	.090	.060	.039	.063	.042	.028	.036	.025	.017	.012	.008	.005	
9.0	.100	.064	.040	.086	.056	.035	.059	.039	.025	.035	.023	.015	.011	.008	.005	
10.0	.095	.059	.036	.082	.052	.031	.057	.036	.022	.033	.021	.013	.011	.007	.004	

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:LYH
 Test Date:2020.8.5

□ Range: 0 - 180DEG
 □ Interval: 1.0DEG
 Test System:EVERFINE GO-2000 SYSTEM V2.0.366
 Humidity:65.0%
 Test Distance:8.350m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

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	4.5	5.3	4.7	5.4	5.6	4.2	5.0	4.4	5.2	5.3
3H	5.7	6.5	6.0	6.7	6.9	5.4	6.2	5.7	6.4	6.6
4H	6.3	7.0	6.5	7.2	7.4	5.9	6.6	6.2	6.9	7.1
6H	6.7	7.4	7.0	7.7	7.9	6.3	7.0	6.6	7.2	7.5
8H	6.9	7.6	7.2	7.8	8.1	6.5	7.1	6.8	7.4	7.7
12H	7.1	7.7	7.4	8.0	8.3	6.6	7.2	6.9	7.5	7.8
4H 2H	5.0	5.7	5.2	5.9	6.1	4.7	5.5	5.0	5.7	5.9
3H	6.4	7.0	6.7	7.3	7.6	6.1	6.8	6.5	7.0	7.3
4H	7.1	7.6	7.4	8.0	8.3	6.8	7.3	7.1	7.7	8.0
6H	7.7	8.2	8.0	8.5	8.9	7.3	7.8	7.7	8.2	8.5
8H	7.9	8.4	8.3	8.8	9.1	7.5	8.0	7.9	8.3	8.7
12H	8.1	8.6	8.6	9.0	9.4	7.7	8.1	8.1	8.5	8.9
8H 4H	7.3	7.8	7.7	8.1	8.5	7.0	7.5	7.4	7.9	8.2
6H	8.0	8.4	8.5	8.8	9.3	7.7	8.1	8.1	8.5	8.9
8H	8.4	8.7	8.8	9.2	9.6	8.0	8.3	8.5	8.8	9.2
12H	8.7	9.0	9.2	9.5	9.9	8.3	8.6	8.7	9.0	9.5
12H 4H	7.3	7.7	7.7	8.1	8.5	7.0	7.5	7.4	7.8	8.3
6H	8.1	8.4	8.5	8.9	9.3	7.8	8.1	8.2	8.5	9.0
8H	8.5	8.8	9.0	9.2	9.7	8.1	8.4	8.6	8.9	9.4
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
1.5H	+ 0.1 / - 0.2					+ 0.1 / - 0.2				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117, 11989 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 8.6$)

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
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 Test Date: 2020.8.5

☐ Range: 0 - 180DEG
☐ Interval: 1.0DEG
 Test System: EVERFINE GO-2000 SYSTEM V2.0.366
 Humidity: 65.0%
 Test Distance: 8.350m [K=1.0000]
 Remarks:

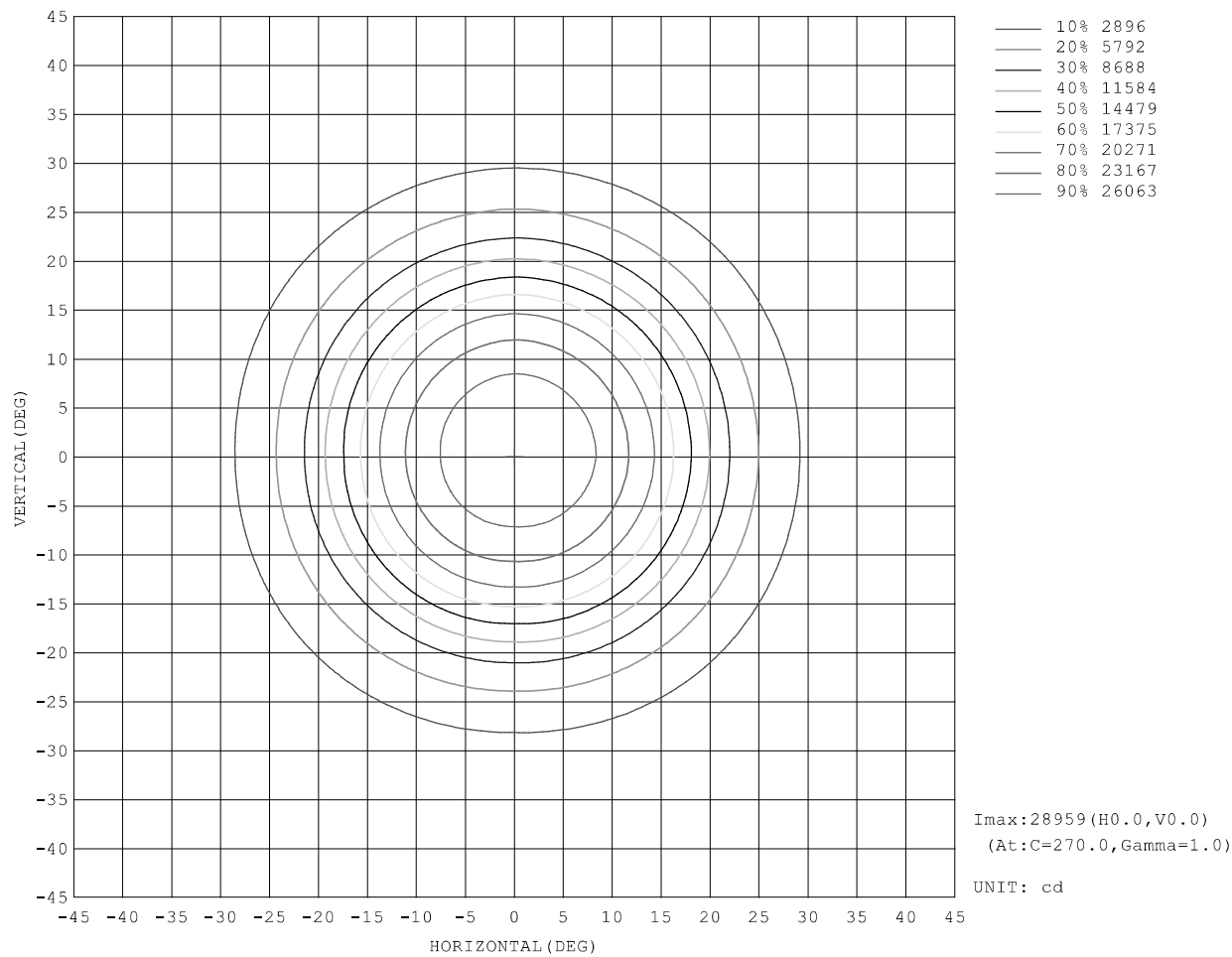
UTILIZATION FACTORS TABLE

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) $k(RI) \times RCR = 5$									
$k = 0.60$	86	79	75	85	79	75	84	78	75	71
0.80	93	87	83	92	86	83	91	86	82	78
1.00	97	91	88	96	91	87	95	91	87	82
1.25	101	96	92	100	95	92	98	94	91	86
1.50	104	99	96	103	98	95	101	97	94	89
2.00	107	103	99	106	102	98	103	99	97	91
2.50	109	105	102	107	104	101	104	101	99	92
3.00	111	107	104	109	106	103	105	103	101	94
4.00	113	110	108	111	108	106	107	105	103	96
5.00	114	112	110	112	110	108	108	106	105	97
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended				SHRNOM = 1.25		

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
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 Operators: LYH
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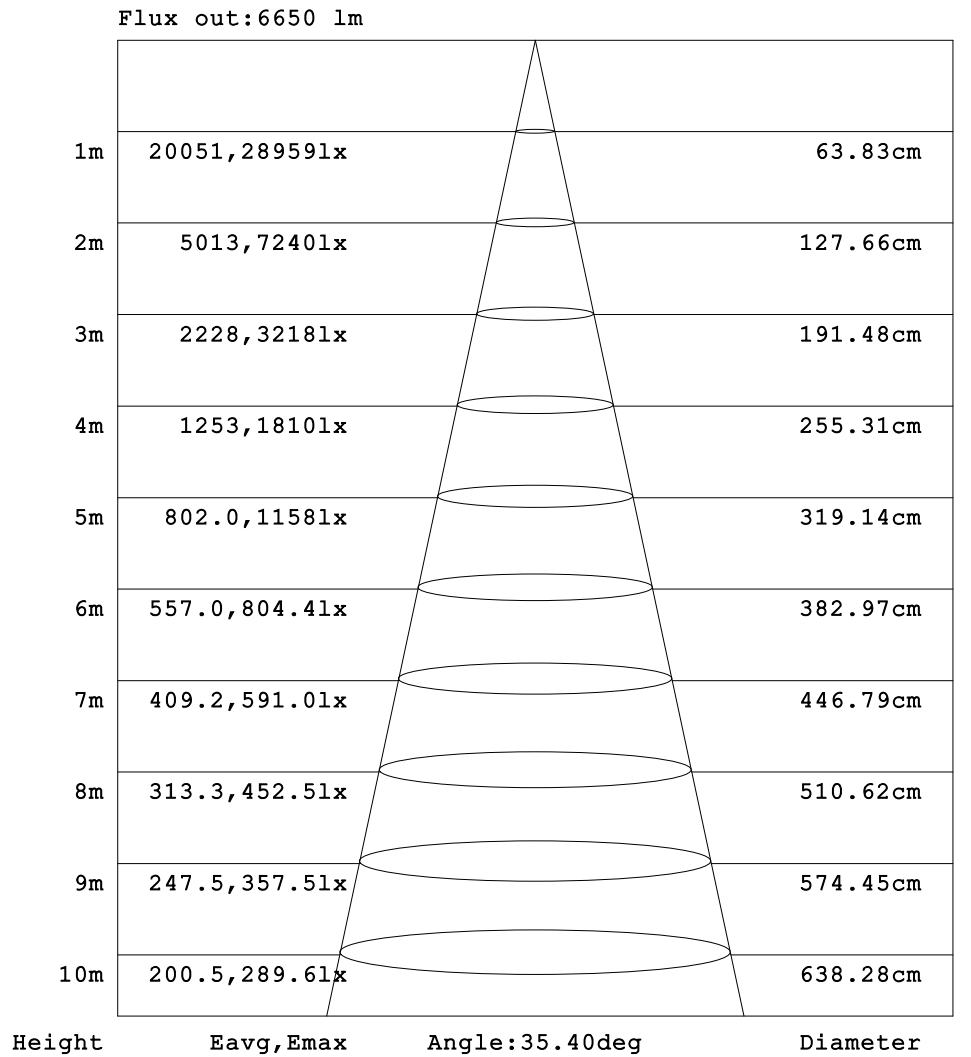
☐ Range: 0 - 180DEG
☐ Interval: 1.0DEG
 Test System: EVERFINE GO-2000 SYSTEM V2.0.366
 Humidity: 65.0%
 Test Distance: 8.350m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM



C Range: 0 - 360DEG	☐ Range: 0 - 180DEG
C Interval: 90.0DEG	☐ Interval: 1.0DEG
Test Speed: HIGH	Test System:EVERFINE GO-2000 SYSTEM V2.0.366
Temperature:25.3DEG	Humidity:65.0%
Operators:LYH	Test Distance:8.350m [K=1.0000]
Test Date:2020.8.5	Remarks:

AAI Figure

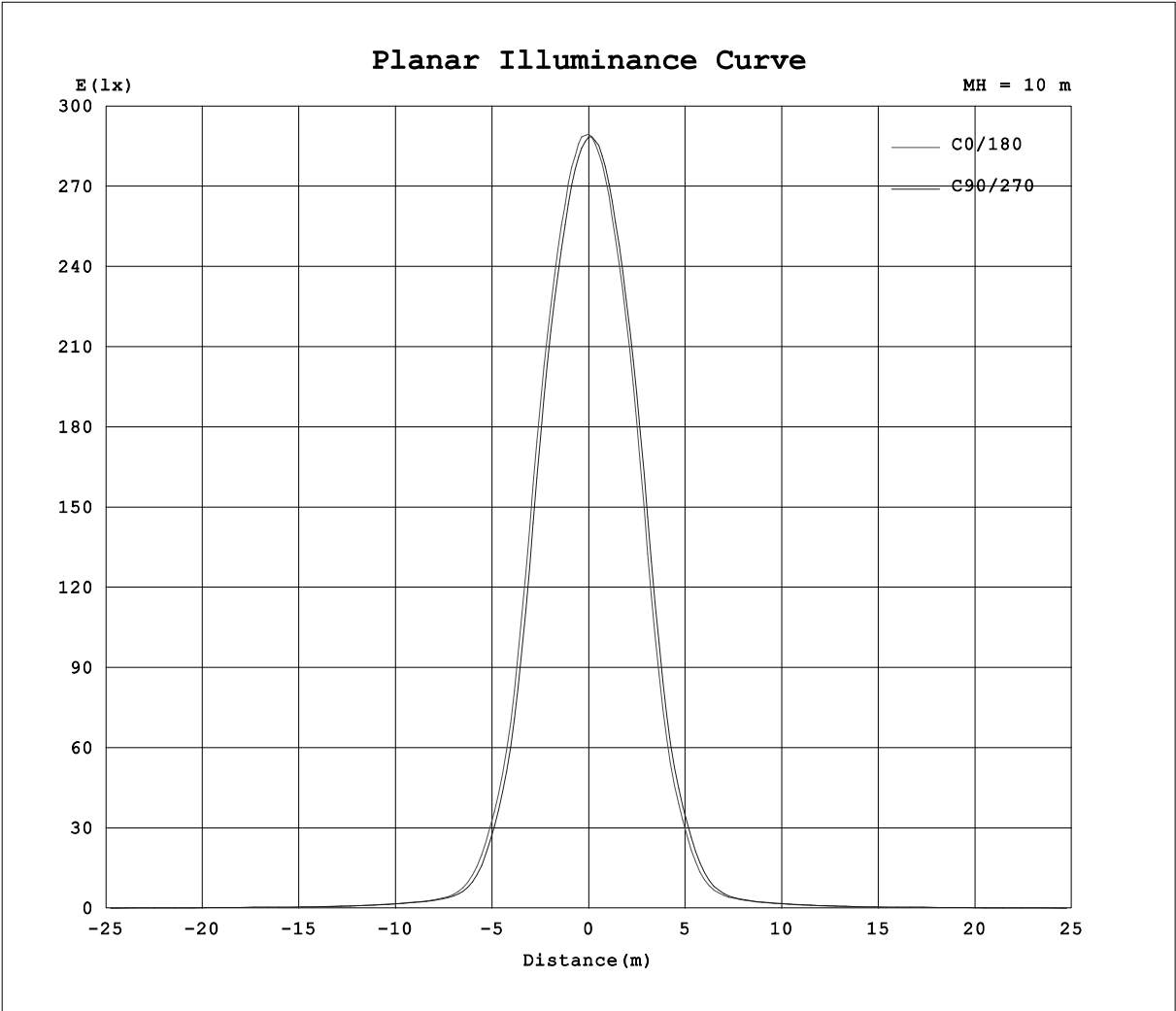


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:LYH
Test Date:2020.8.5

□ Range: 0 - 180DEG
□ Interval: 1.0DEG
Test System:EVERFINE GO-2000 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.350m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
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□ Range: 0 - 180DEG
□ Interval: 1.0DEG
Test System:EVERFINE GO-2000 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:8.350m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--1

UNIT: ×10cd

C (DEG) □ (DEG)	0	90	180	270														
0	2890	2890	2890	2890														
5	2798	2742	2757	2811														
10	2473	2387	2415	2501														
15	1932	1788	1844	1984														
20	1148	1000	1052	1198														
25	573	495	523	605														
30	243	195	209	262														
35	95.1	84.1	88.2	99.9														
40	62.9	59.9	61.4	64.3														
45	48.8	47.0	47.8	49.7														
50	40.5	38.9	39.6	41.3														
55	34.3	33.0	33.7	34.8														
60	28.8	27.3	28.0	29.1														
65	22.6	21.2	21.9	22.9														
70	17.2	15.9	16.6	17.3														
75	12.4	11.2	11.9	12.4														
80	8.24	7.20	7.76	8.26														
85	4.58	3.75	4.12	4.30														
90	1.50	1.06	1.25	1.32														
95	1.08	0.80	1.05	0.81														
100	0.89	0.65	0.84	0.68														
105	0.71	0.54	0.66	0.56														
110	0.58	0.46	0.54	0.46														
115	0.51	0.43	0.46	0.40														
120	0.51	0.48	0.45	0.38														
125	0.66	0.68	0.56	0.48														
130	1.02	1.09	0.86	0.73														
135	1.64	1.73	1.41	1.18														
140	2.51	2.57	2.21	1.85														
145	3.53	3.51	3.16	2.66														
150	4.57	4.43	4.15	3.54														
155	5.43	5.22	4.98	4.34														
160	5.98	5.72	5.53	4.96														
165	6.19	5.90	5.80	5.31														
170	6.19	5.88	5.92	5.48														
175	6.12	5.78	6.01	5.59														
180	6.09	5.74	6.12	5.72														

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:LYH
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□ Range: 0 - 180DEG
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 Test System:EVERFINE GO-2000 SYSTEM V2.0.366
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