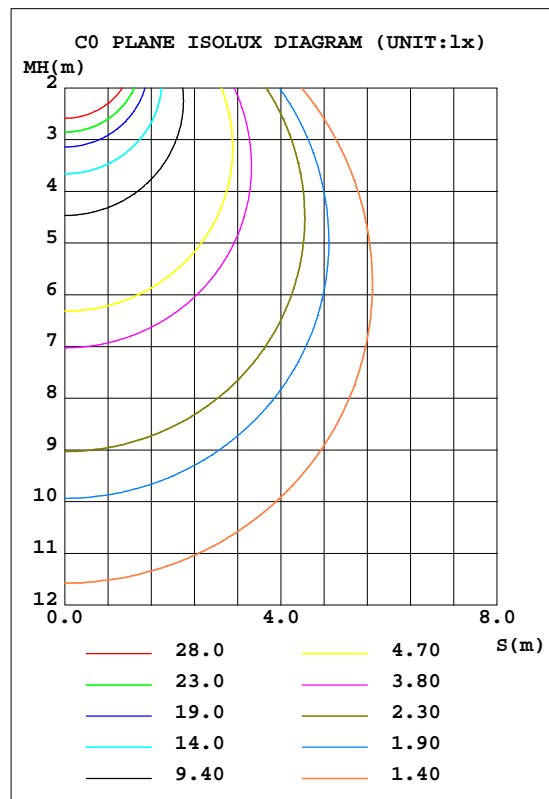
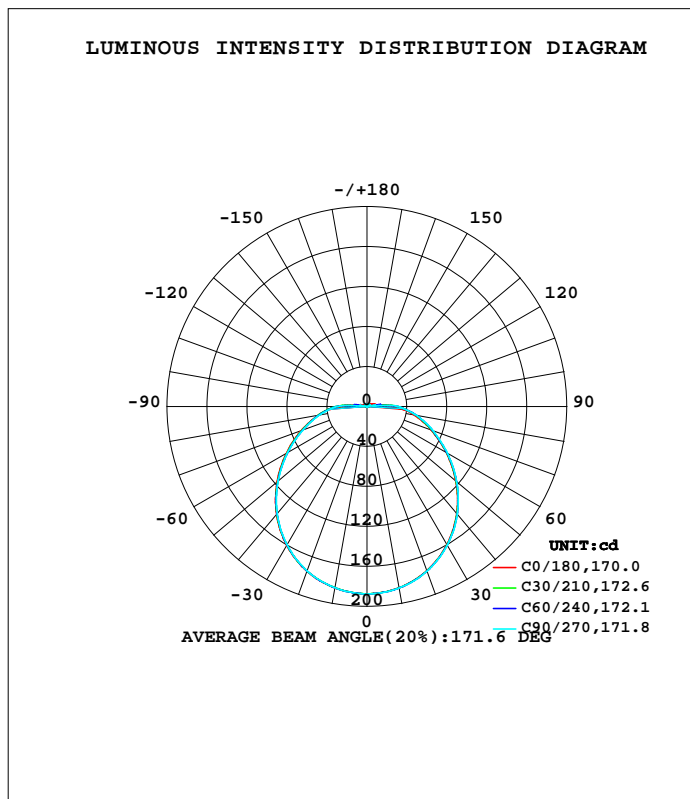


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.00V I:0.0785A P:9.1159W PF:0.9673 Freq:59.98Hz Lamp Flux:642.875x1 lm		
NAME: DLS4-MCT	TYPE:	WEIGHT:
SPEC.:9W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 70.52 lm/W
MODEL	DLS4-MCT	I _{max} (cd)	187.5	S/MH(C0/180)	1.27	
NOMINAL POWER(W)	9	LOR(%)	100.0	S/MH(C90/270)	1.27	
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	642.88	h UP, DN(C0-180)	2.0,48.4	
NOMINAL FLUX(lm)	642.875	CIE CLASS	DIRECT	h UP, DN(C180-360)	1.8,47.8	
LAMPS INSIDE	1	h up(%)	3.8	CIBSE SHR NOM	1.25	
TEST VOLTAGE(V)	120	h down(%)	96.2	CIBSE SHR MAX	1.35	



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:2020-06-04

g Range: 0 - 180DEG
 g Interval: 0.5DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:3.010m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	184.2	184.5	184.5	184.5	184.3	184.1	184.1	184.0	0- 10	17.74	17.74	2.76,2.76
20	174.9	175.8	175.4	175.9	175.5	174.7	175.1	174.5	10- 20	50.95	68.69	10.7,10.7
30	159.9	161.0	160.6	161.2	160.7	159.5	160.0	159.2	20- 30	77.61	146.3	22.8,22.8
40	139.8	141.3	140.8	141.5	140.8	139.4	139.8	139.0	30- 40	94.34	240.6	37.4,37.4
50	116.0	117.8	117.3	118.2	117.5	115.7	116.1	115.2	40- 50	99.40	340.0	52.9,52.9
60	91.37	93.04	92.80	93.85	93.10	90.98	91.29	90.50	50- 60	93.43	433.5	67.4,67.4
70	68.44	69.60	70.30	70.78	69.73	68.23	67.86	67.89	60- 70	79.56	513.0	79.8,79.8
80	47.43	50.20	49.74	51.97	48.83	49.05	47.76	48.99	70- 80	62.26	575.3	89.5,89.5
90	24.16	30.80	31.03	32.23	25.15	30.34	29.66	30.28	80- 90	42.97	618.3	96.2,96.2
100	4.847	0.5667	8.874	0.5369	0.6040	0.4780	7.332	0.4812	90-100	15.72	634.0	98.6,98.6
110	6.641	0.9045	1.292	0.9873	3.368	0.7554	0.8908	0.8620	100-110	2.278	636.3	99,99
120	3.879	1.121	1.419	1.437	3.834	0.9285	1.088	1.403	110-120	1.744	638.0	99.2,99.2
130	3.447	1.008	1.837	1.037	2.836	0.6758	1.719	0.7195	120-130	1.611	639.6	99.5,99.5
140	1.340	0.7600	2.421	0.7632	1.394	0.6234	1.636	0.6493	130-140	1.417	641.0	99.7,99.7
150	1.176	1.431	1.431	0.7153	0.6409	1.034	1.174	0.6235	140-150	0.7650	641.8	99.8,99.8
160	2.782	2.607	3.000	0.9593	2.677	3.924	2.164	1.866	150-160	0.5902	642.4	99.9,99.9
170	0.5759	0.5559	0.5088	0.5153	0.4945	0.4425	0.4739	0.4991	160-170	0.4324	642.8	100,100
180	0.5710	0.6075	0.5704	0.5921	0.5731	0.6037	0.5735	0.5973	170-180	0.0499	642.9	100,100
DEG	LUMINOUS INTENSITY:cd								UNIT:lm			

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:2020-06-04

g Range: 0 - 180DEG
 g Interval: 0.5DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:3.010m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.00V I:0.0785A P:9.1159W PF:0.9673 Freq:59.98Hz Lamp Flux:642.875x1 lm										
NAME: DLS4-MCT					TYPE:			WEIGHT:		
SPEC.:9W					DIM.:			SERIAL No.:		
MFR.: LiBo					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	9.0	10.6	9.3	10.8	11.1	9.1	10.6	9.4	10.9	11.2
3H	11.0	12.5	11.4	12.8	13.1	11.1	12.5	11.5	12.8	13.2
4H	12.1	13.4	12.4	13.8	14.1	12.2	13.5	12.5	13.9	14.2
6H	13.1	14.4	13.5	14.8	15.2	13.3	14.6	13.7	15.0	15.3
8H	13.7	15.0	14.1	15.3	15.7	13.9	15.2	14.3	15.5	15.9
12H	14.3	15.6	14.8	15.9	16.3	14.6	15.8	15.0	16.1	16.5
4H 2H	9.7	11.1	10.1	11.4	11.8	9.8	11.1	10.1	11.5	11.8
3H	12.0	13.2	12.4	13.5	13.9	12.0	13.3	12.4	13.6	14.0
4H	13.2	14.3	13.6	14.7	15.1	13.3	14.4	13.7	14.8	15.2
6H	14.5	15.5	14.9	15.9	16.4	14.6	15.6	15.1	16.0	16.5
8H	15.2	16.1	15.6	16.5	17.0	15.3	16.3	15.8	16.7	17.2
12H	15.9	16.8	16.4	17.2	17.7	16.1	17.0	16.6	17.4	17.9
8H 4H	13.7	14.6	14.2	15.1	15.5	13.8	14.7	14.3	15.2	15.6
6H	15.3	16.1	15.8	16.5	17.0	15.4	16.2	15.9	16.7	17.2
8H	16.1	16.9	16.7	17.4	17.9	16.3	17.0	16.8	17.5	18.0
12H	17.1	17.7	17.6	18.2	18.8	17.3	17.9	17.8	18.4	19.0
12H 4H	13.8	14.7	14.3	15.1	15.6	13.9	14.8	14.4	15.2	15.7
6H	15.5	16.2	16.0	16.7	17.2	15.6	16.3	16.1	16.8	17.3
8H	16.5	17.1	17.0	17.6	18.2	16.6	17.2	17.1	17.7	18.3
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.4					+ 0.2 / - 0.3				

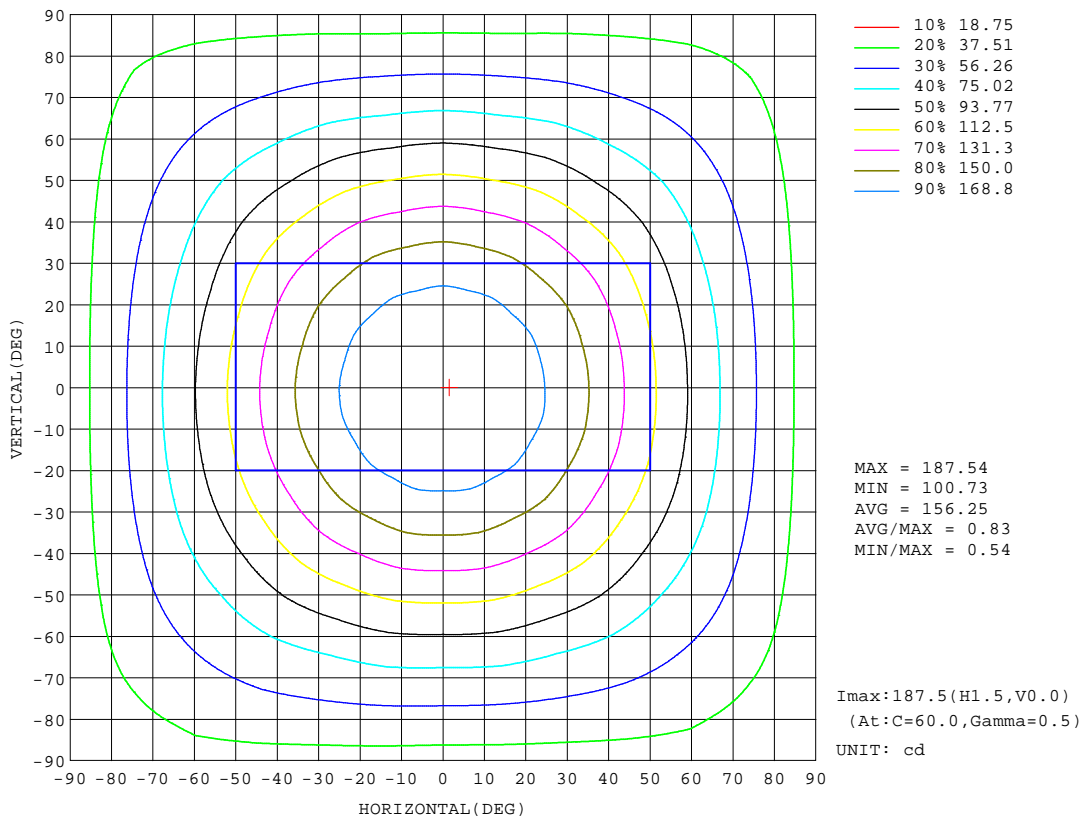
CIE Pub.117, 642.9 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -1.5)

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:2020-06-04

g Range: 0 - 180DEG
 g Interval: 0.5DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:3.010m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.00V I:0.0785A P:9.1159W PF:0.9673 Freq:59.98Hz Lamp Flux:642.875x1 lm		
NAME: DLS4-MCT	TYPE:	WEIGHT:
SPEC.:9W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:



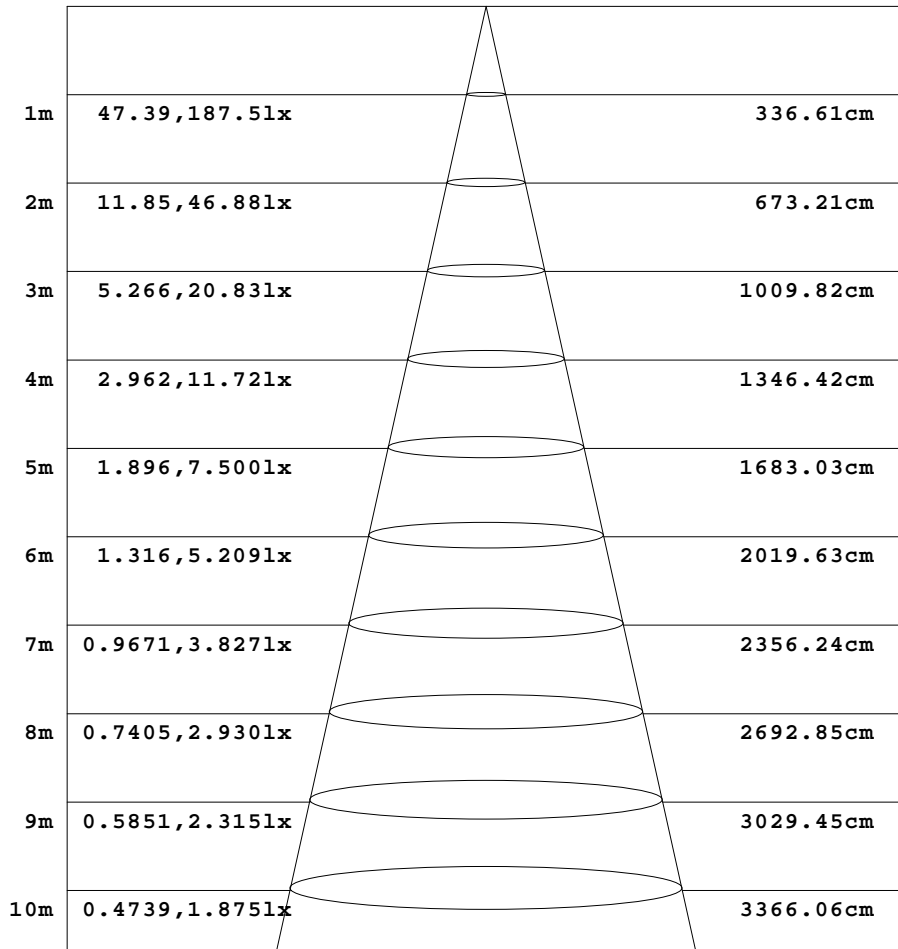
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:2020-06-04

g Range: 0 - 180DEG
 g Interval: 0.5DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:3.010m [K=1.0000]
 Remarks:

AAI Figure

Test:U:120.00V I:0.0785A P:9.1159W PF:0.9673 Freq:59.98Hz Lamp Flux:642.875x1 lm		
NAME: DLS4-MCT	TYPE:	WEIGHT:
SPEC.:9W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:

Flux out:429.1 lm



Height Eavg, Emax Angle:118.57deg Diameter

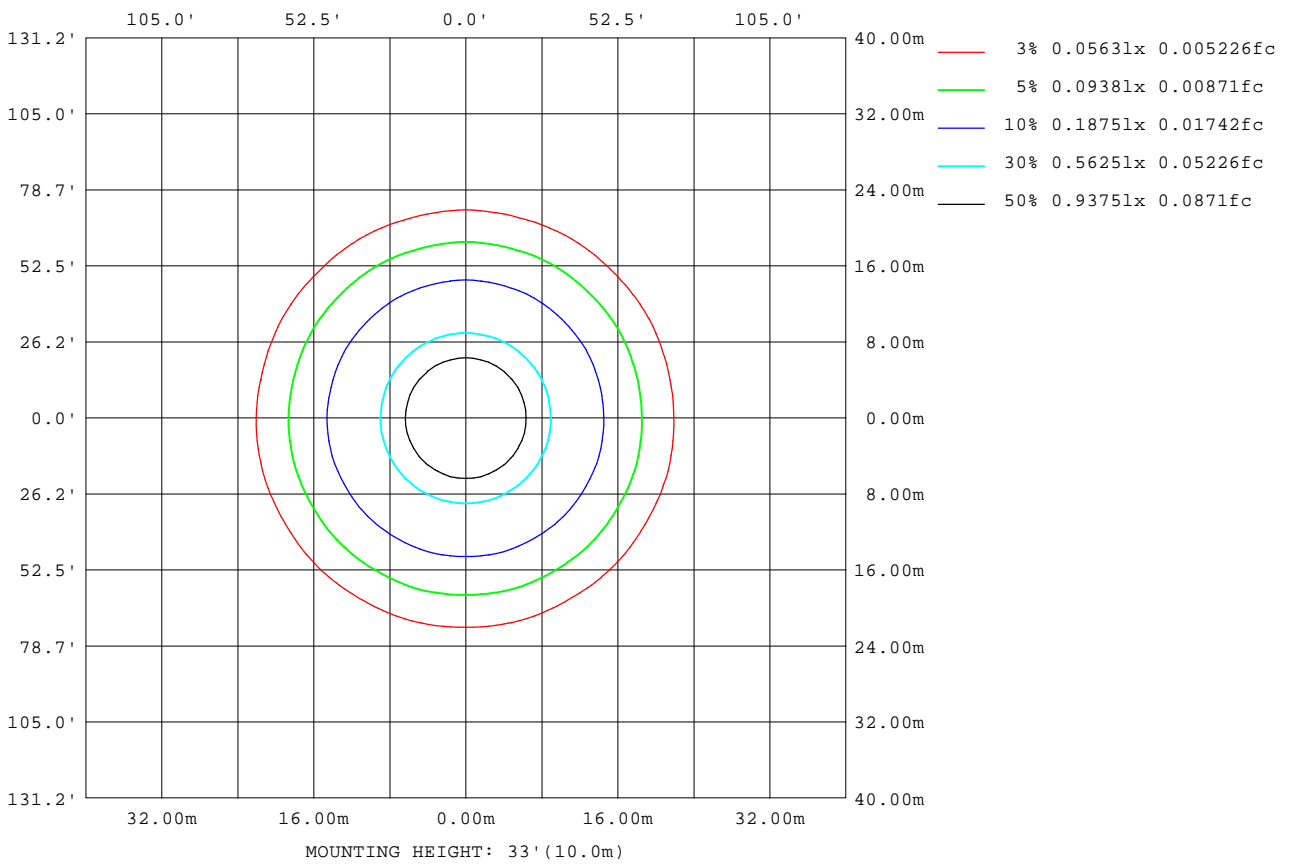
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:2020-06-04

g Range: 0 - 180DEG
 g Interval: 0.5DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:3.010m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:120.00V I:0.0785A P:9.1159W PF:0.9673 Freq:59.98Hz Lamp Flux:642.875x1 lm		
NAME: DLS4-MCT	TYPE:	WEIGHT:
SPEC.:9W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:2020-06-04

g Range: 0 - 180DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
Humidity:65.0%
Test Distance:3.010m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:120.00V I:0.0785A P:9.1159W PF:0.9673 Freq:59.98Hz Lamp Flux:642.875x1 lm		
NAME: DLS4-MCT	TYPE:	WEIGHT:
SPEC.:9W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:

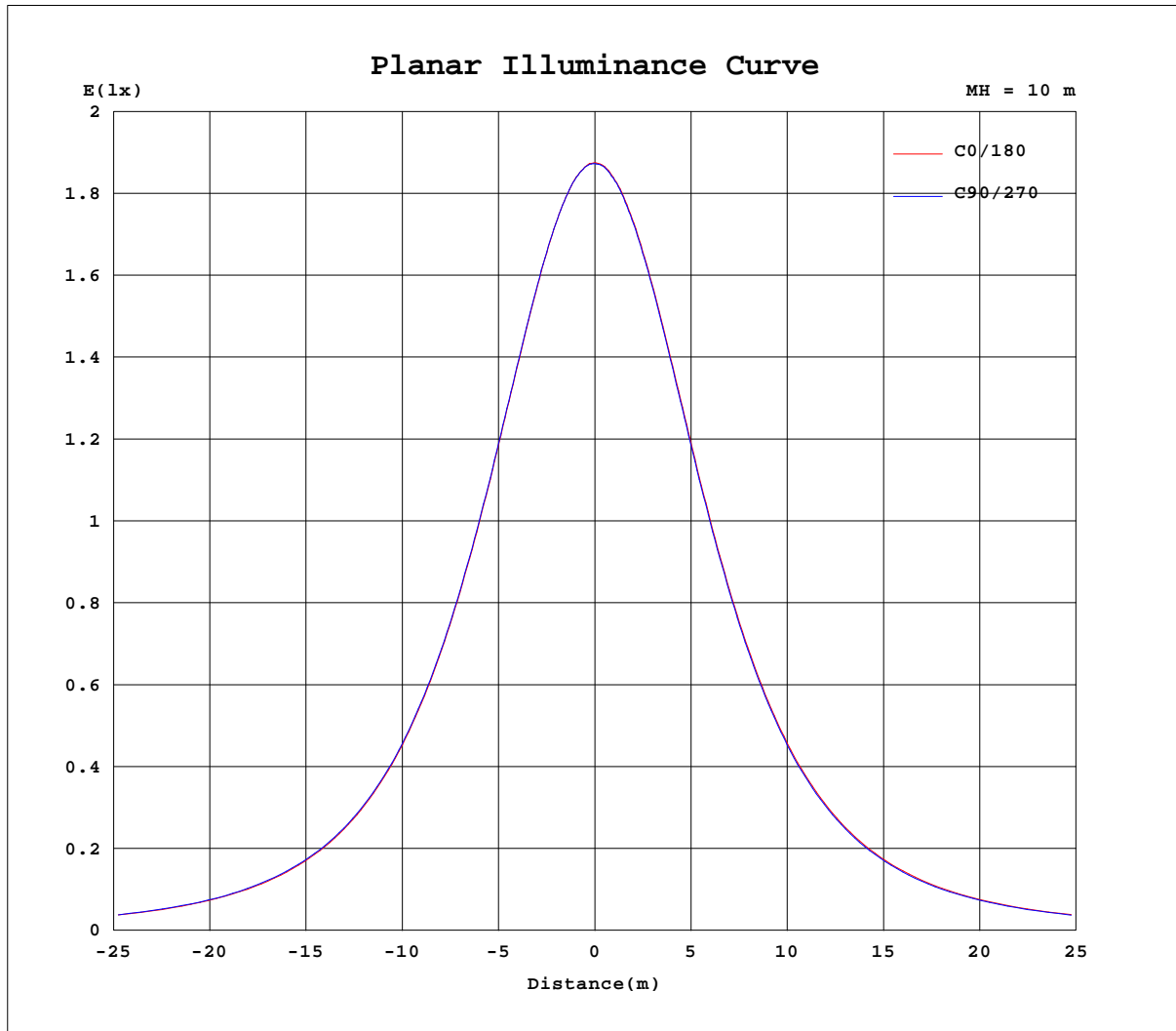
AvgL	cd/m2
L_0~180(65)av	380
L_0~180(75)av	450
L_0~180(85)av	861
L_90~270(65)av	379
L_90~270(75)av	453
L_90~270(85)av	897
L_45(65)av	379
L_45(75)av	455
L_45(85)av	926

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:2020-06-04

g Range: 0 - 180DEG
 g Interval: 0.5DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:3.010m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3DEG
 Operators:
 Test Date: 2020-06-04

g Range: 0 - 180DEG
 g Interval: 0.5DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
 Humidity: 65.0%
 Test Distance: 3.010m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.00V I:0.0785A P:9.1159W PF:0.9673 Freq:59.98Hz Lamp Flux:642.875x1 lm		
NAME: DLS4-MCT	TYPE:	WEIGHT:
SPEC.:9W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C(DEG) g (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	187	187	187	187	187	187	187	187	187	187	187	187	187	187	187	187	187	187	187
5	187	187	187	187	187	187	187	187	187	187	187	187	187	187	187	187	187	186	186
10	184	184	184	185	184	185	185	185	184	185	184	184	184	184	184	184	184	184	184
15	180	181	180	181	181	181	181	181	181	181	180	181	181	180	180	180	181	180	180
20	175	176	175	176	175	176	175	176	175	176	175	176	175	175	175	175	175	174	175
25	168	169	168	169	169	169	169	169	168	169	168	169	169	168	168	168	168	167	168
30	160	161	160	161	160	161	161	161	160	161	160	161	161	160	160	159	160	159	160
35	150	151	151	152	151	152	151	152	151	152	151	152	151	150	151	150	151	150	150
40	140	141	140	141	141	141	141	142	141	141	140	141	141	140	140	139	140	139	140
45	128	129	129	130	129	130	129	130	129	130	129	130	129	128	129	128	129	127	128
50	116	117	117	118	117	118	117	118	117	118	117	118	117	116	117	116	116	115	116
55	104	105	104	105	105	106	105	106	105	106	105	106	105	104	105	103	104	103	104
60	91.4	92.5	91.9	93.0	92.3	93.5	92.8	93.8	92.9	93.9	92.7	93.4	93.1	91.8	92.3	91.0	91.6	90.4	91.3
65	79.4	80.5	79.8	81.0	80.3	81.5	80.9	81.9	81.0	82.0	80.9	81.7	81.2	80.0	80.3	79.0	79.6	78.3	79.3
70	68.4	69.2	69.1	69.6	69.8	70.4	70.3	70.9	70.7	70.8	70.4	70.5	69.7	69.3	69.0	68.2	68.2	67.7	67.9
75	57.6	58.5	58.6	59.3	59.6	59.9	59.9	60.6	60.7	61.0	60.2	60.0	58.9	58.7	58.3	57.7	57.9	57.4	57.5
80	47.4	48.6	49.5	50.2	50.0	50.0	49.7	50.7	51.3	52.0	51.5	50.4	48.8	48.9	49.3	49.0	48.6	47.7	47.8
85	36.7	37.4	39.7	40.1	39.8	39.8	39.8	40.5	41.0	41.7	41.5	39.8	38.3	40.0	40.2	39.8	39.2	38.4	38.5
90	24.2	20.9	30.5	30.8	30.7	31.0	31.0	31.6	31.8	32.2	32.0	22.7	25.2	31.0	31.0	30.3	30.1	29.5	29.7
95	18.0	11.2	18.4	7.32	8.61	11.8	11.7	11.6	8.69	2.53	15.9	8.83	16.7	9.12	14.7	3.91	7.92	9.14	10.5
100	4.85	0.82	0.73	0.57	11.8	13.6	8.87	14.1	11.9	0.54	0.60	0.71	0.60	0.52	0.54	0.48	11.1	11.8	7.33
105	6.75	1.76	0.92	1.15	3.04	0.64	0.63	0.65	3.47	1.21	1.10	1.64	5.86	0.74	0.70	1.37	1.80	0.60	0.58
110	6.64	3.21	1.14	0.90	0.95	1.04	1.29	1.13	0.93	0.99	1.07	2.08	3.37	1.58	0.87	0.76	0.82	0.84	0.89
115	5.97	3.80	1.42	1.01	1.16	1.16	1.24	1.29	1.26	1.15	1.33	2.16	4.24	3.76	1.21	0.80	0.95	0.96	0.98
120	3.88	3.04	1.72	1.12	1.32	1.39	1.42	1.47	1.47	1.44	1.63	2.52	3.83	3.19	1.57	0.93	1.02	1.05	1.09
125	2.75	2.33	1.76	0.76	1.50	1.58	1.63	1.66	1.94	1.36	1.69	2.36	2.48	2.14	1.36	1.09	1.23	1.22	1.31
130	3.45	3.22	1.82	1.01	1.86	1.84	1.84	2.22	1.88	1.04	1.92	2.65	2.84	2.76	2.20	0.68	1.22	1.82	1.72
135	3.31	2.79	1.49	0.76	2.08	2.66	2.78	2.44	2.06	0.80	1.62	2.13	2.55	2.29	1.93	0.66	1.52	2.14	2.11
140	1.34	0.84	0.76	0.76	1.36	2.09	2.42	2.76	1.86	0.76	0.77	1.31	1.39	1.28	0.62	0.62	2.67	1.70	1.64
145	0.78	0.75	0.77	0.75	1.36	1.92	2.03	2.04	1.31	0.73	0.73	0.71	0.68	0.61	0.61	0.60	2.24	3.01	3.14
150	1.18	0.71	0.72	1.43	0.79	0.83	1.43	0.76	0.71	0.72	0.68	0.69	0.64	0.58	0.57	1.03	0.62	0.63	1.17
155	2.24	1.35	1.05	2.04	1.25	1.67	1.92	1.22	0.69	0.64	1.27	1.11	1.83	1.59	1.05	1.67	0.94	1.28	2.15
160	2.78	1.42	1.73	2.61	1.23	1.13	3.00	1.99	1.82	0.96	1.67	2.68	2.68	0.88	1.75	3.92	1.73	1.51	2.16
165	1.17	1.33	2.30	2.40	1.43	0.93	2.20	2.27	0.72	0.56	0.70	2.33	1.43	0.48	1.59	2.48	2.15	1.26	1.84
170	0.58	0.58	0.58	0.56	0.53	0.52	0.51	0.52	0.51	0.52	0.53	0.54	0.49	0.47	0.45	0.44	0.45	0.46	0.47
175	0.56	0.57	0.58	0.57	0.55	0.53	0.52	0.53	0.55	0.55	0.54	0.54	0.50	0.50	0.48	0.50	0.50	0.48	0.48
180	0.57	0.57	0.58	0.61	0.59	0.57	0.57	0.57	0.57	0.59	0.58	0.57	0.57	0.57	0.58	0.60	0.59	0.57	0.57

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:2020-06-04

g Range: 0 - 180DEG
 g Interval: 0.5DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:3.010m [K=1.0000]
 Remarks:

