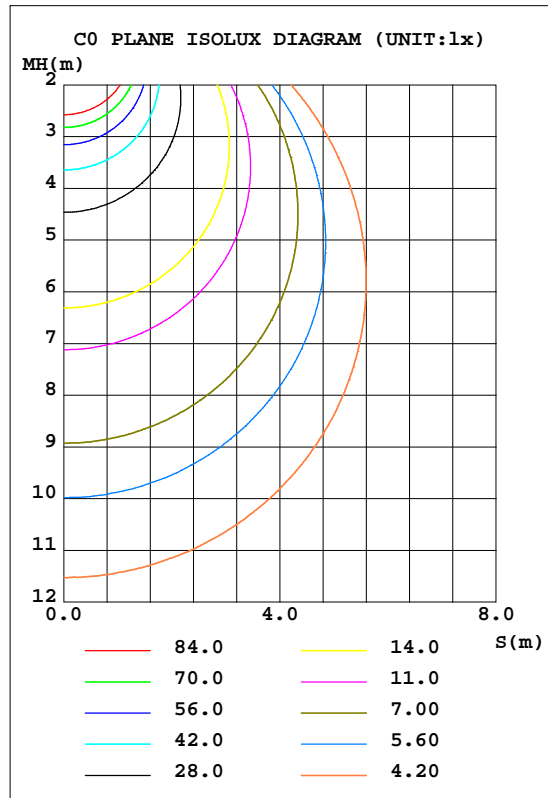
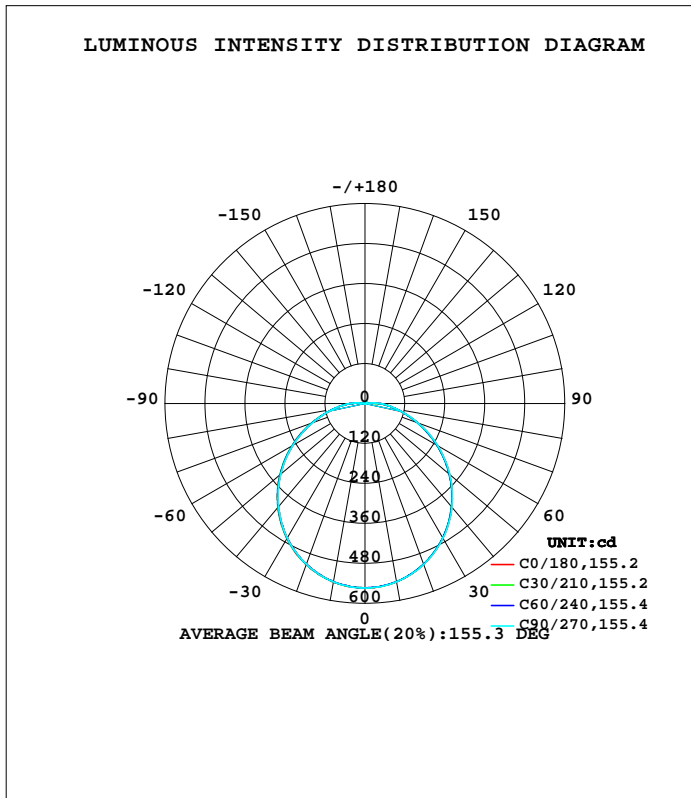


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.95V I:0.1887A P:20.863W PF:0.9219 Freq:59.98Hz Lamp Flux:1707.6x1 lm		
NAME: DLS8-MCT-PIR	TYPE:	WEIGHT:
SPEC.:20W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 81.85 lm/W
MODEL	DLS8-MCT-PIR	I <sub>max</sub> (cd)	554.0	S/MH(C0/180)	1.26	
NOMINAL POWER(W)	20	LOR(%)	100.0	S/MH(C90/270)	1.25	
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1707.6	h UP, DN(C0-180)	1.2,49.0	
NOMINAL FLUX(lm)	1707.6	CIE CLASS	DIRECT	h UP, DN(C180-360)	1.2,48.6	
LAMPS INSIDE	1	h up(%)	2.4	CIBSE SHR NOM	1.25	
TEST VOLTAGE(V)	120	h down(%)	97.6	CIBSE SHR MAX	1.35	



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2020-05-28

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	543.1	543.5	543.8	543.8	544.1	543.1	543.5	542.7	0- 10	52.36	52.36	3.07,3.07
20	513.7	514.9	514.6	515.4	515.1	513.8	513.6	512.7	10- 20	149.9	202.2	11.8,11.8
30	466.6	468.2	467.7	468.8	468.3	466.1	466.3	464.9	20- 30	227.0	429.3	25.1,25.1
40	404.5	406.4	406.4	407.2	406.8	404.3	403.8	402.5	30- 40	273.9	703.1	41.2,41.2
50	330.3	332.9	332.8	334.2	333.3	330.4	330.4	328.4	40- 50	285.0	988.2	57.9,57.9
60	248.5	251.3	251.7	253.3	252.7	249.3	249.1	247.3	50- 60	260.7	1249	73.1,73.1
70	165.6	168.6	168.7	170.5	169.4	165.9	166.2	164.6	60- 70	206.6	1455	85.2,85.2
80	94.15	97.50	96.67	98.72	96.44	94.02	94.93	94.07	70- 80	137.2	1593	93.3,93.3
90	43.29	42.77	45.08	42.91	42.93	39.82	42.97	43.19	80- 90	73.75	1666	97.6,97.6
100	13.93	3.993	1.624	4.125	5.826	4.057	1.432	3.379	90-100	23.50	1690	99,99
110	3.728	2.363	2.694	2.971	3.336	2.290	2.312	2.731	100-110	2.994	1693	99.1,99.1
120	4.729	3.529	3.843	4.003	4.452	3.859	3.764	3.839	110-120	3.488	1696	99.3,99.3
130	5.406	3.767	5.213	2.948	5.074	2.110	5.088	2.137	120-130	3.931	1700	99.6,99.6
140	3.497	2.638	4.823	2.448	3.075	2.134	4.258	2.255	130-140	3.165	1703	99.8,99.8
150	2.063	2.580	3.620	3.022	1.853	1.931	4.401	2.399	140-150	1.828	1705	99.9,99.9
160	3.794	3.272	3.476	2.636	3.136	3.503	2.600	2.477	150-160	1.313	1707	99.9,99.9
170	1.925	2.602	2.479	1.814	1.540	2.290	2.781	2.349	160-170	0.8215	1707	100,100
180	1.600	1.680	1.565	1.683	1.602	1.677	1.564	1.684	170-180	0.1862	1708	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:2020-05-28

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:119.95V I:0.1887A P:20.863W PF:0.9219 Freq:59.98Hz Lamp Flux:1707.6x1 lm										
NAME: DLS8-MCT-PIR					TYPE:			WEIGHT:		
SPEC.:20W					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	12.7	14.3	13.0	14.5	14.8	12.7	14.3	13.0	14.5	14.8
3H	14.4	15.8	14.8	16.1	16.4	14.4	15.8	14.8	16.1	16.4
4H	15.2	16.5	15.5	16.8	17.1	15.2	16.6	15.6	16.9	17.2
6H	15.9	17.2	16.3	17.5	17.8	16.0	17.2	16.3	17.6	17.9
8H	16.3	17.5	16.7	17.8	18.2	16.3	17.6	16.7	17.9	18.2
12H	16.6	17.8	17.0	18.2	18.5	16.7	17.9	17.1	18.2	18.6
4H 2H	13.4	14.7	13.7	15.0	15.3	13.4	14.7	13.7	15.0	15.3
3H	15.3	16.4	15.7	16.8	17.1	15.3	16.5	15.7	16.8	17.2
4H	16.2	17.3	16.6	17.6	18.0	16.2	17.3	16.6	17.7	18.1
6H	17.1	18.1	17.5	18.5	18.9	17.1	18.1	17.6	18.5	18.9
8H	17.5	18.4	18.0	18.9	19.3	17.6	18.5	18.0	18.9	19.4
12H	18.0	18.9	18.5	19.3	19.7	18.1	18.9	18.5	19.3	19.8
8H 4H	16.6	17.5	17.0	17.9	18.3	16.6	17.5	17.0	17.9	18.3
6H	17.7	18.4	18.2	18.9	19.4	17.7	18.5	18.2	18.9	19.4
8H	18.3	19.0	18.8	19.4	19.9	18.3	19.0	18.8	19.5	20.0
12H	19.0	19.5	19.5	20.0	20.6	19.0	19.6	19.5	20.1	20.6
12H 4H	16.6	17.4	17.1	17.9	18.3	16.6	17.5	17.1	17.9	18.4
6H	17.8	18.5	18.3	19.0	19.5	17.9	18.5	18.4	19.0	19.5
8H	18.5	19.1	19.0	19.6	20.1	18.6	19.1	19.1	19.6	20.2
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.1 / - 0.3					+ 0.1 / - 0.3				

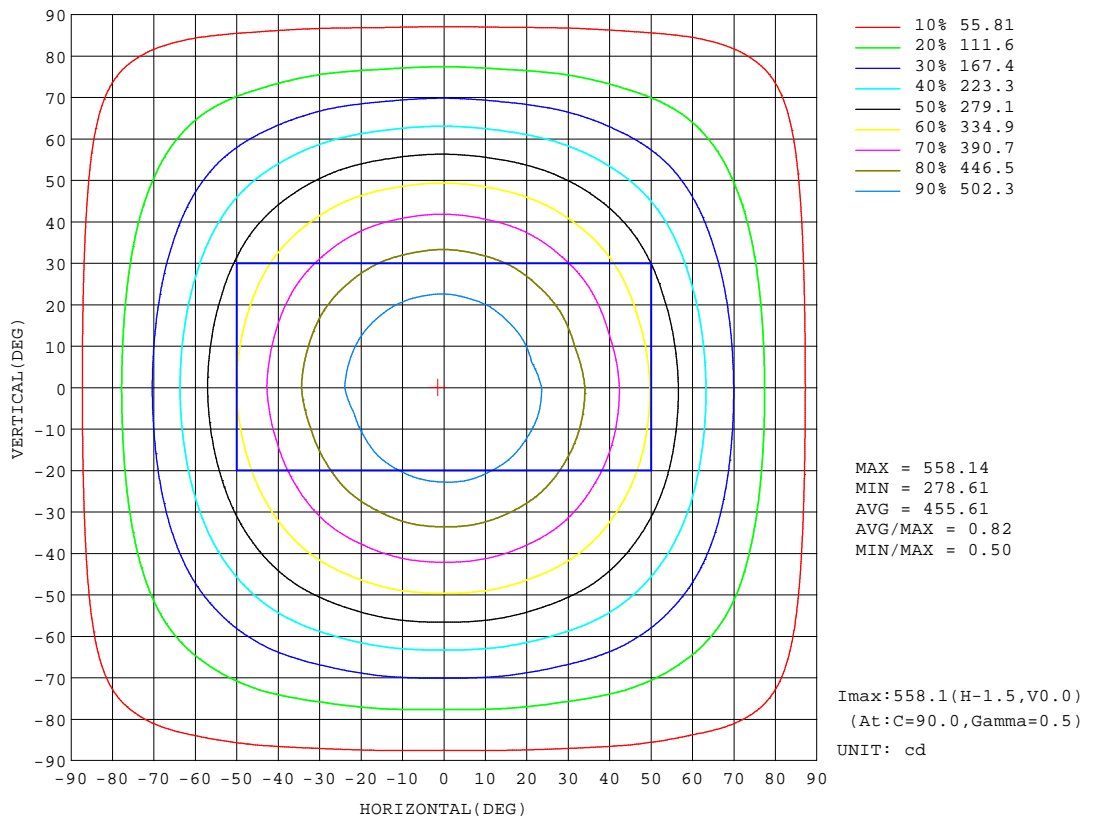
CIE Pub.117, 1708 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 1.9)

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2020-05-28

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:119.95V I:0.1887A P:20.863W PF:0.9219 Freq:59.98Hz Lamp Flux:1707.6x1 lm		
NAME: DLS8-MCT-PIR	TYPE:	WEIGHT:
SPEC.:20W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:



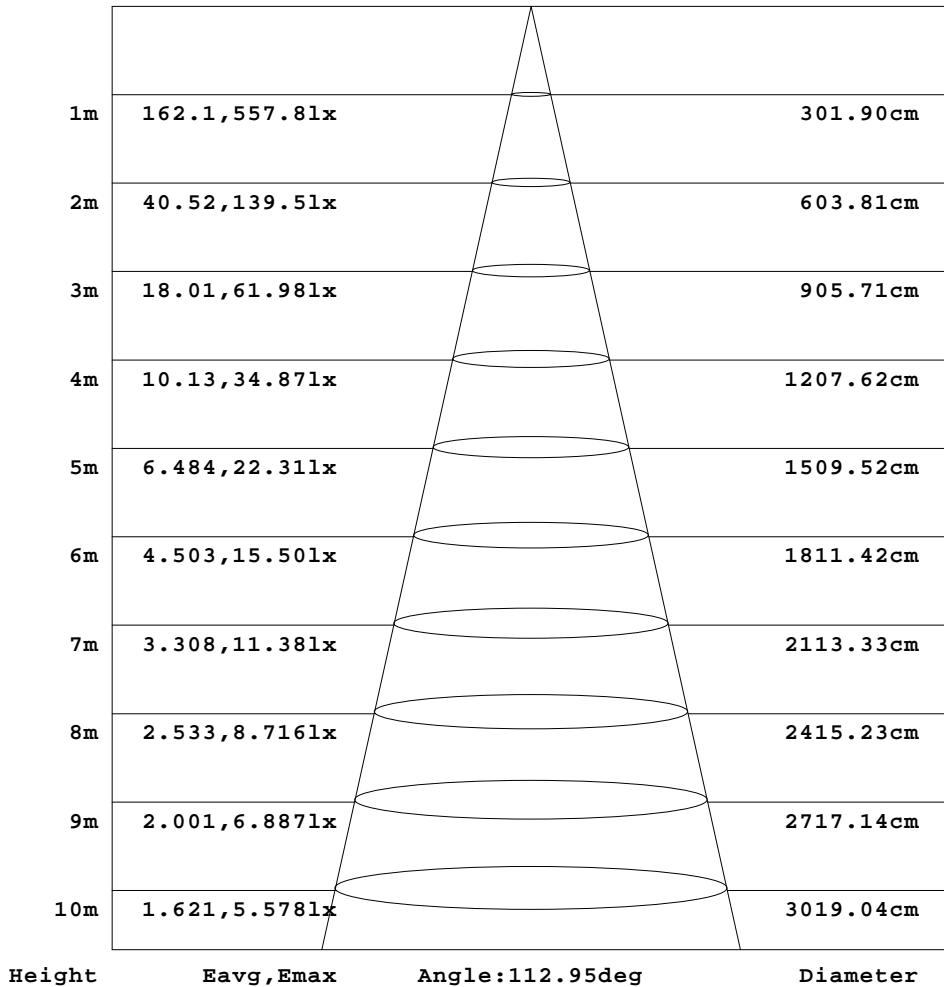
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2020-05-28

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:119.95V I:0.1887A P:20.863W PF:0.9219 Freq:59.98Hz Lamp Flux:1707.6x1 lm		
NAME: DLS8-MCT-PIR	TYPE:	WEIGHT:
SPEC.:20W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:

Flux out:1162 lm



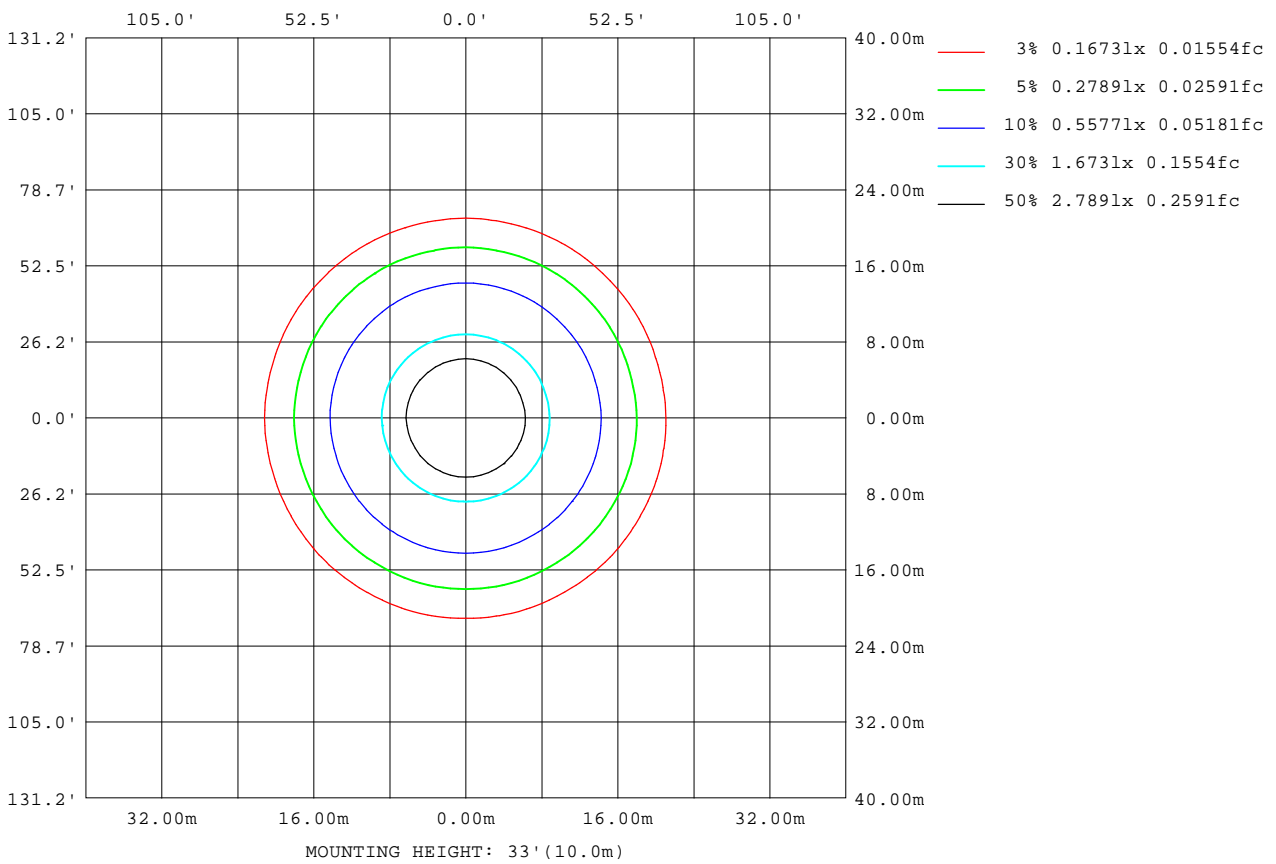
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2020-05-28

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:119.95V I:0.1887A P:20.863W PF:0.9219 Freq:59.98Hz Lamp Flux:1707.6x1 lm		
NAME: DLS8-MCT-PIR	TYPE:	WEIGHT:
SPEC.:20W	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:2020-05-28

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:119.95V I:0.1887A P:20.863W PF:0.9219 Freq:59.98Hz Lamp Flux:1707.6x1 lm		
NAME: DLS8-MCT-PIR	TYPE:	WEIGHT:
SPEC.:20W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:

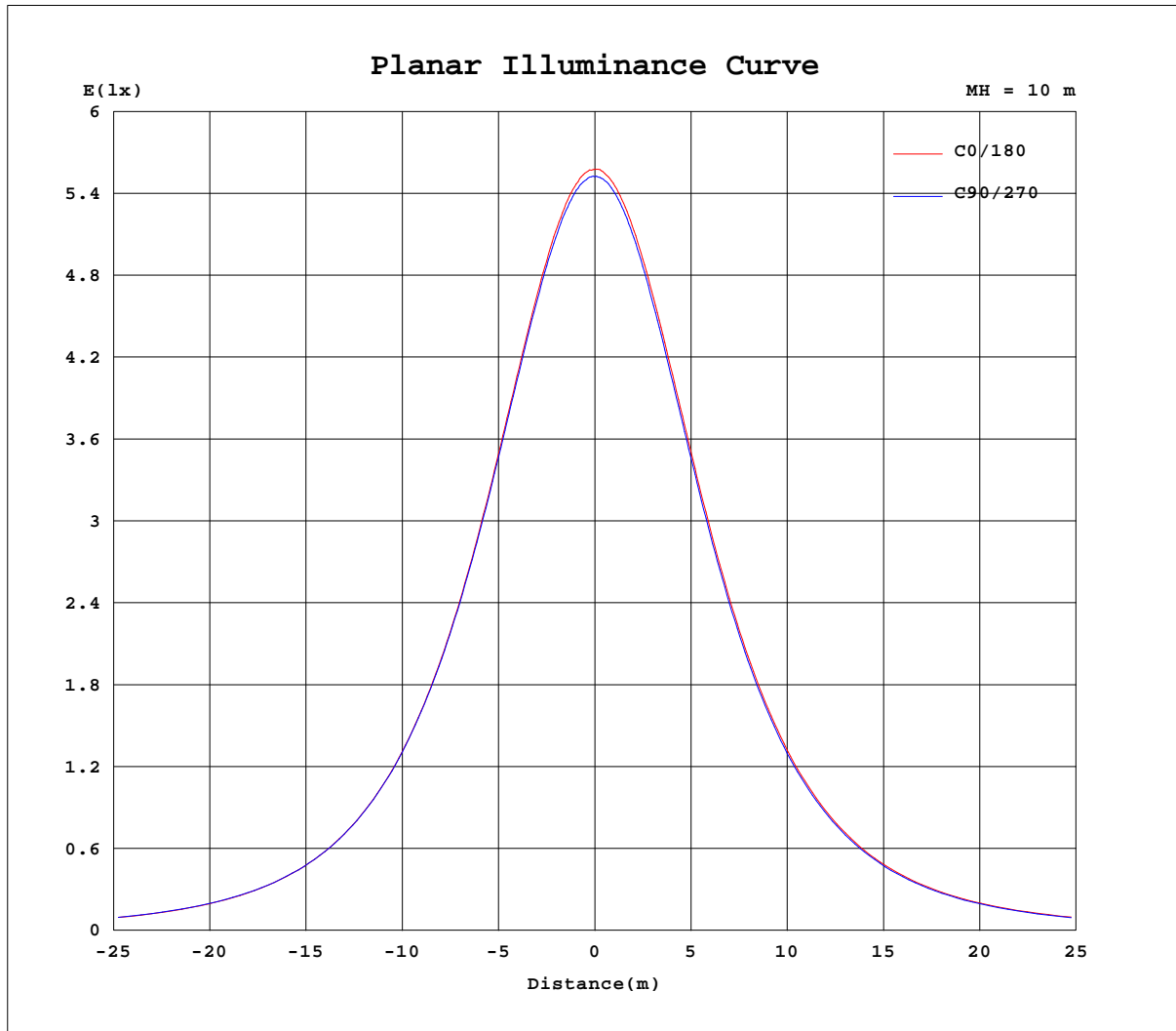
AvgL	cd/m2
L_0~180(65)av	988
L_0~180(75)av	996
L_0~180(85)av	1536
L_90~270(65)av	987
L_90~270(75)av	1000
L_90~270(85)av	1543
L_45(65)av	987
L_45(75)av	998
L_45(85)av	1546

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2020-05-28

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: 2020-05-28

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:119.95V I:0.1887A P:20.863W PF:0.9219 Freq:59.98Hz Lamp Flux:1707.6x1 lm		
NAME: DLS8-MCT-PIR	TYPE:	WEIGHT:
SPEC.:20W	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	553	553	553	553	553	553	553	553	553	553	553	553	553	553	553	553	553	553	553
5	551	551	551	551	551	551	551	551	551	551	551	551	551	551	551	551	551	551	551
10	543	544	544	544	543	544	544	544	544	544	544	544	544	544	543	543	543	543	543
15	531	531	531	531	531	532	532	531	531	532	532	532	532	531	531	530	530	530	531
20	514	514	514	515	514	515	515	515	515	515	515	515	515	514	514	514	513	513	514
25	492	493	493	494	493	494	494	494	493	494	493	494	494	493	493	492	492	492	492
30	467	467	467	468	467	468	468	468	468	469	468	469	468	467	467	466	466	466	466
35	437	438	437	439	438	439	439	440	439	440	439	440	440	439	438	438	437	437	436
40	405	405	404	406	405	407	406	407	406	407	407	407	407	405	406	404	405	403	404
45	369	370	369	371	369	371	371	372	371	372	371	372	371	370	370	369	369	368	368
50	330	332	331	333	331	333	333	334	333	334	333	334	333	332	332	330	331	330	330
55	290	291	291	293	291	294	293	294	293	294	293	294	294	292	292	290	291	290	290
60	249	250	250	251	250	252	252	253	252	253	252	253	253	251	251	249	250	248	249
65	207	209	208	210	209	211	210	211	210	212	210	211	211	209	209	207	208	206	207
70	166	168	167	169	167	170	169	170	169	171	169	170	169	167	168	166	167	165	166
75	127	129	129	131	129	132	131	132	131	132	131	131	131	128	129	127	128	127	128
80	94.1	96.0	95.2	97.5	96.0	98.0	96.7	98.4	97.0	98.7	96.9	97.4	96.4	94.3	95.4	94.0	95.3	93.6	94.9
85	66.5	67.4	66.6	68.5	67.8	68.9	68.4	69.2	68.4	69.1	67.6	68.0	67.4	66.0	66.5	65.6	66.0	65.3	66.1
90	43.3	37.4	36.5	42.8	44.5	45.4	45.1	45.5	44.5	42.9	37.6	36.9	42.9	42.4	42.4	39.8	42.0	42.2	43.0
95	26.3	22.3	20.5	20.9	23.6	26.7	26.5	26.5	23.2	16.1	17.5	19.4	24.3	21.3	19.2	12.5	20.5	23.5	24.7
100	13.9	11.2	3.65	3.99	3.88	1.74	1.62	1.77	4.02	4.13	1.47	3.67	5.83	4.50	1.17	4.06	3.91	1.92	1.43
105	2.60	2.17	2.07	1.73	1.80	3.10	2.89	3.23	1.89	1.93	1.85	1.94	1.98	1.87	1.83	1.59	1.51	2.09	2.05
110	3.73	3.38	3.34	2.36	2.56	2.50	2.69	2.68	2.51	2.97	2.82	2.86	3.34	2.87	2.75	2.29	2.57	2.24	2.31
115	4.55	4.52	4.11	2.96	2.90	3.27	3.53	3.62	3.27	3.36	3.55	4.20	4.02	3.82	3.79	2.98	3.19	3.10	3.10
120	4.73	4.95	4.30	3.53	3.82	3.86	3.84	4.27	3.74	4.00	4.04	4.41	4.45	4.28	3.82	3.86	4.36	4.19	3.76
125	5.77	5.61	4.56	3.20	4.18	4.34	4.19	4.56	4.42	3.77	3.57	4.77	5.04	4.83	4.21	3.00	5.19	4.91	4.27
130	5.41	5.55	3.67	3.77	4.94	5.41	5.21	5.04	5.39	2.95	3.92	5.21	5.07	5.34	4.16	2.11	4.32	5.29	5.09
135	4.53	4.20	3.94	3.00	4.06	5.57	6.30	5.97	4.74	2.82	3.44	4.52	4.35	4.41	3.49	2.21	3.96	4.49	4.85
140	3.50	2.97	2.53	2.64	3.65	4.89	4.82	5.41	4.26	2.45	2.52	2.74	3.08	2.46	2.24	2.13	2.77	3.95	4.26
145	2.64	2.63	2.14	3.21	3.44	4.12	4.07	4.35	3.19	2.47	2.04	2.48	2.31	2.19	1.73	1.74	3.02	4.40	4.60
150	2.06	2.51	2.49	2.58	2.69	3.66	3.62	3.30	2.80	3.02	2.21	2.35	1.85	2.27	1.74	1.93	2.05	3.19	4.40
155	2.98	2.60	2.38	3.03	2.89	3.72	3.82	3.62	2.63	2.16	2.77	2.76	2.78	2.73	2.98	2.71	2.17	2.53	3.02
160	3.79	4.62	3.97	3.27	3.23	3.71	3.48	3.28	2.09	2.64	3.04	3.13	3.14	3.47	4.31	3.50	3.06	2.81	2.60
165	3.59	4.04	2.95	3.47	3.25	2.72	2.63	2.21	1.77	2.51	3.90	4.50	2.89	1.70	1.44	2.64	3.70	2.36	2.56
170	1.93	2.63	2.67	2.60	2.64	2.61	2.48	2.27	1.60	1.81	1.71	2.40	1.54	1.26	2.00	2.29	2.46	2.42	2.78
175	1.50	1.58	1.64	1.62	2.30	2.69	2.67	2.41	1.71	1.59	1.51	1.44	1.35	1.34	1.48	1.94	2.17	1.68	1.45
180	1.60	1.61	1.63	1.68	1.60	1.56	1.57	1.56	1.61	1.68	1.66	1.61	1.60	1.60	1.63	1.68	1.60	1.56	1.56

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2020-05-28

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:119.95V I:0.1887A P:20.863W PF:0.9219 Freq:59.98Hz Lamp Flux:1707.6x1 lm		
NAME: DLS8-MCT-PIR	TYPE:	WEIGHT:
SPEC.:20W	DIM.:	SERIAL No.:
MFR.: LiBo	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C(DEG) g (DEG)	285	300	315	330	345														
0	553	553	553	553	553														
5	550	551	551	551	551														
10	543	543	543	543	543														
15	530	531	530	531	530														
20	513	514	513	513	513														
25	491	492	491	492	492														
30	465	466	465	466	466														
35	436	437	435	437	436														
40	403	404	403	404	403														
45	367	368	367	368	368														
50	329	330	328	330	329														
55	289	289	288	290	289														
60	247	248	247	249	248														
65	206	207	205	207	206														
70	164	166	165	166	165														
75	126	128	127	128	127														
80	93.8	95.6	94.1	95.4	93.8														
85	65.6	66.6	66.3	67.2	66.4														
90	42.6	43.5	43.2	43.9	43.6														
95	23.7	20.7	19.0	25.0	25.2														
100	1.95	4.20	3.38	3.74	11.0														
105	2.12	1.82	1.73	1.63	1.91														
110	2.43	2.46	2.73	2.76	3.00														
115	3.22	3.49	3.41	3.37	3.82														
120	3.93	3.96	3.84	3.82	4.14														
125	4.77	4.35	3.55	3.79	4.77														
130	5.89	4.10	2.14	4.45	5.19														
135	5.08	2.77	2.09	3.44	4.04														
140	4.48	2.93	2.26	2.29	2.73														
145	4.23	2.98	1.85	1.94	2.40														
150	3.36	2.24	2.40	2.34	1.88														
155	2.13	2.30	2.80	2.73	3.09														
160	2.82	3.04	2.48	2.25	2.95														
165	2.73	2.95	2.83	2.30	2.49														
170	2.59	2.47	2.35	1.50	1.44														
175	1.50	1.49	1.49	1.54	1.50														
180	1.56	1.61	1.68	1.66	1.61														

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2020-05-28

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: