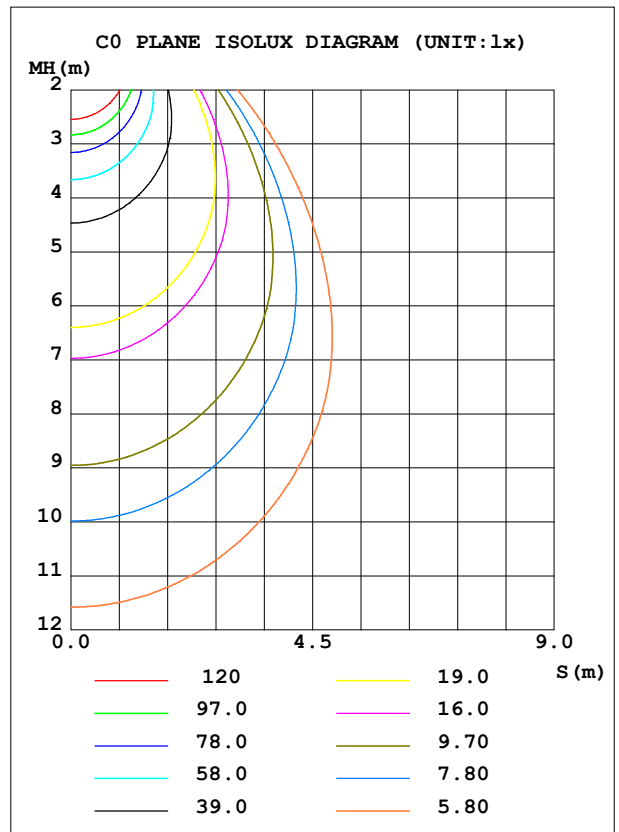
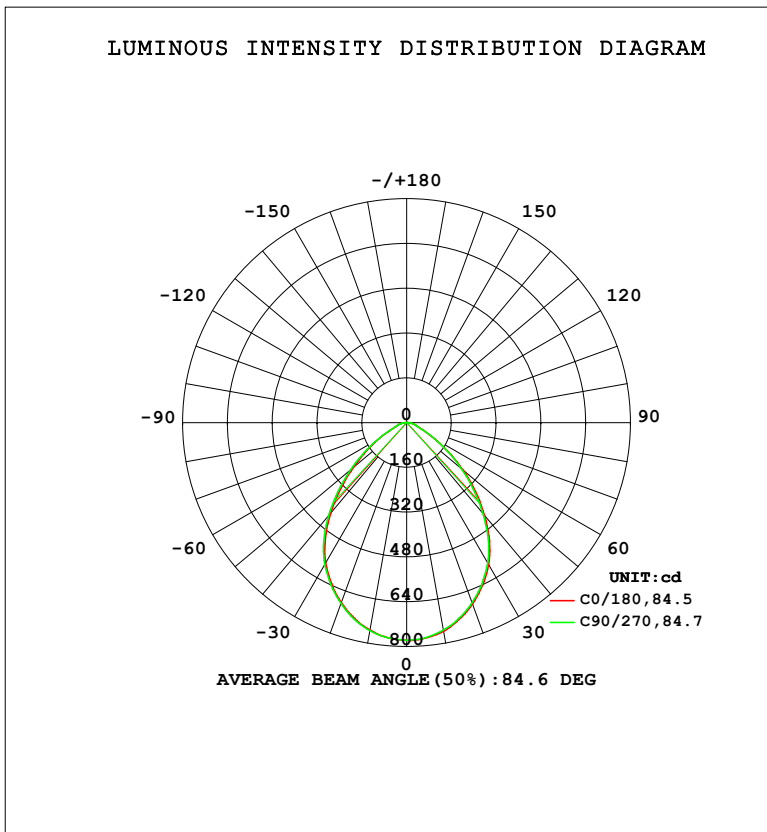


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.48V I:0.0968A P:11.177W PF:0.9667 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1422.61x1 lm		
NAME: DL254-6-30W-M-A5C5-HO	TYPE: 12W	WEIGHT:
SPEC.: 3500K	DIM.: 0.21	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.15	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	DL254-6-30W-M-A5C5-HO	Imax (cd)	778.4	S/MH (C0/180)	1.13
NOMINAL POWER (W)	12	LOR (%)	100.0	S/MH (C90/270)	1.13
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	1422.6	<input type="checkbox"/> UP, DN (C0-180)	0.0, 50.3
NOMINAL FLUX (lm)	1422.61	CIE CLASS	DIRECT	<input type="checkbox"/> UP, DN (C180-360)	0.0, 49.7
LAMPS INSIDE	1	<input type="checkbox"/> up (%)	0.0	CIBSE SHR NOM	1.00
TEST VOLTAGE (V)	120	<input type="checkbox"/> down (%)	100.0	CIBSE SHR MAX	1.15



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3°C  
 Operators: DAMIN  
 Test Date: 2023-07-03

Range: 0 - 90DEG  
 Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.461  
 Humidity: 65.0%  
 Test Distance: 9.680m [K=1.0000]  
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

°	C0	C45	C90	C135	C180	C225	C270	C315	°	□ zone	□ total	%lum,lamp
10	753.0	753.7	755.3	756.2	756.9	754.8	752.7	750.8	0- 10	73.08	73.08	5.14,5.14
20	684.1	685.8	687.8	689.8	689.2	688.0	684.3	681.5	10- 20	204.1	277.2	19.5,19.5
30	578.8	582.2	585.8	588.3	585.6	583.1	579.7	575.9	20- 30	293.3	570.5	40.1,40.1
40	422.9	428.1	434.3	435.7	433.5	429.3	424.1	420.1	30- 40	318.3	888.8	62.5,62.5
50	248.8	256.9	261.4	261.5	262.0	258.2	253.6	248.6	40- 50	262.7	1151	80.9,80.9
60	111.9	113.8	117.0	116.9	115.3	116.8	113.2	110.0	50- 60	161.7	1313	92.3,92.3
70	40.83	40.83	41.11	41.29	41.54	41.34	41.15	41.05	60- 70	69.19	1382	97.2,97.2
80	18.69	18.71	18.94	19.41	19.20	17.01	18.85	19.61	70- 80	31.84	1414	99.4,99.4
90	0.3540	0.3278	0.3081	0.3081	0.5714	0.5769	0.5834	0.5965	80- 90	8.474	1423	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 1031.1 lm

%lum = 72.5%

%lamp = 72.5%

Conical surface Flux(130deg): 1356.1 lm

%lum = 95.3%

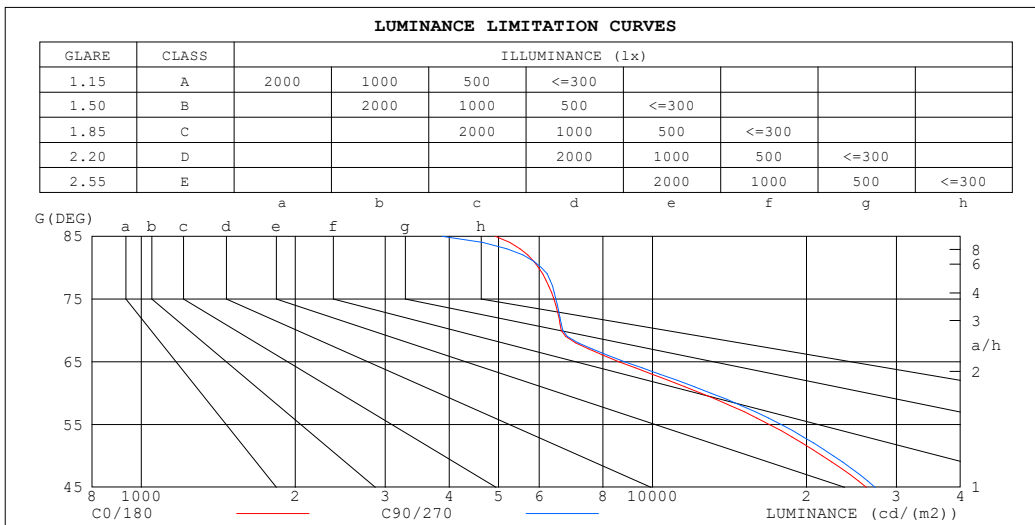
%lamp = 95.3%

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:DAMIN  
 Test Date:2023-07-03

□ Range: 0 - 90DEG  
 □ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.461  
 Humidity:65.0%  
 Test Distance:9.680m [K=1.0000]  
 Remarks:

**LUMINANCE LIMITATION CURVES**

Test:U:119.48V I:0.0968A P:11.177W PF:0.9667 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1422.61x1 lm		
NAME: DL254-6-30W-M-A5C5-HO	TYPE: 12W	WEIGHT:
SPEC.: 3500K	DIM.: 0.21	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.15	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	4923	3872
80	5980	6059
75	6411	6473
70	6632	6678
65	8598	8823
60	12430	12997
55	16927	17860
50	21505	22595
45	26190	27227

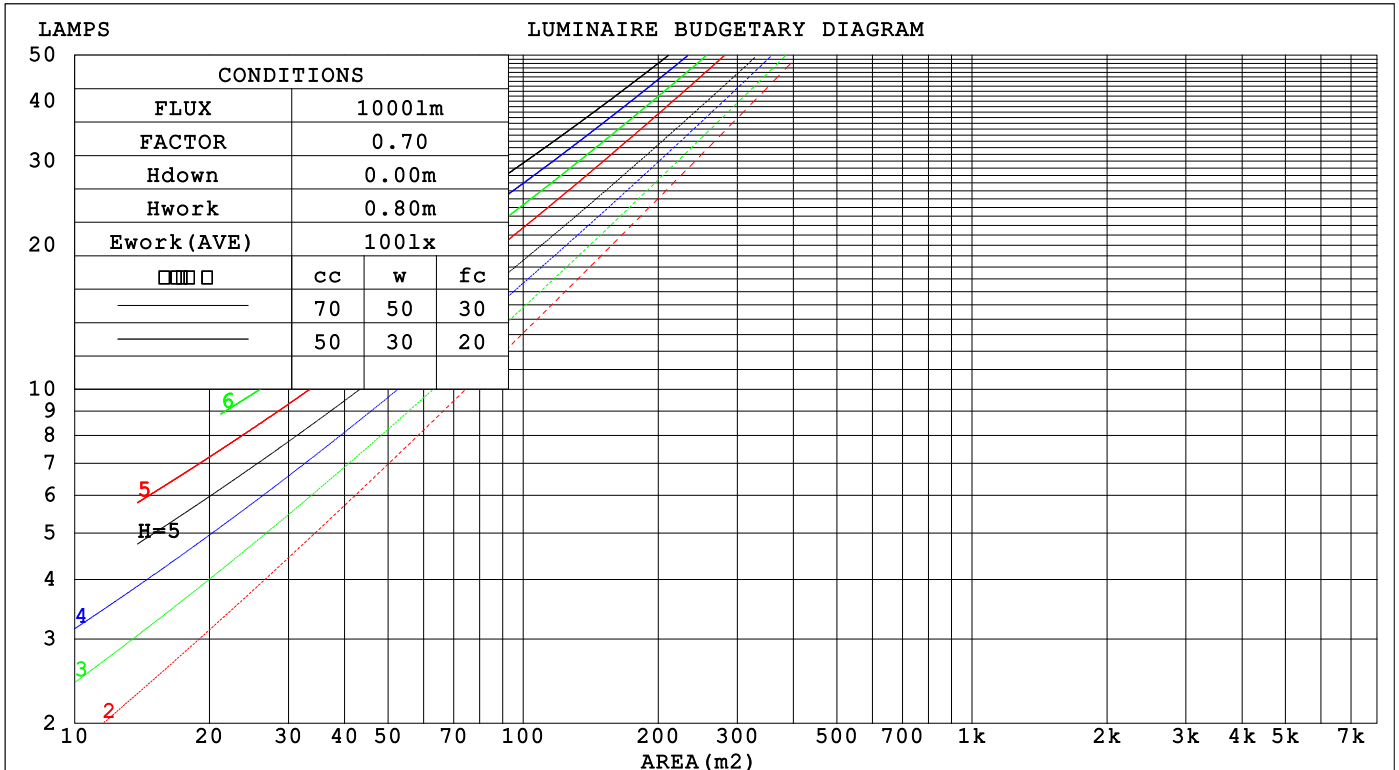
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3°C  
 Operators: DAMIN  
 Test Date: 2023-07-03

Range: 0 - 90DEG  
 Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.461  
 Humidity: 65.0%  
 Test Distance: 9.680m [K=1.0000]  
 Remarks:

**CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM**

Test:U:119.48V I:0.0968A P:11.177W PF:0.9667 Freq:60.01Hz		
UTHdi:0.00% ITHdi:0.00% KDisp:0 Lamp Flux:1422.61x1 lm		
NAME: DL254-6-30W-M-A5C5-HO	TYPE: 12W	WEIGHT:
SPEC.: 3500K	DIM.: 0.21	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.15	Shielding Angle:

□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															
	Coefficients of Utilization(CU)															
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1.0	1.07	1.04	1.01	1.05	1.02	.99	1.01	.99	.96	.97	.95	.93	.94	.92	.91	.89
2.0	.96	.91	.86	.95	.90	.85	.91	.87	.83	.88	.85	.82	.85	.82	.80	.78
3.0	.87	.80	.75	.85	.79	.74	.83	.77	.73	.80	.75	.72	.78	.74	.70	.69
4.0	.79	.71	.65	.77	.70	.65	.75	.69	.64	.73	.68	.63	.71	.66	.63	.61
5.0	.71	.64	.58	.70	.63	.58	.68	.62	.57	.66	.61	.57	.65	.60	.56	.54
6.0	.65	.57	.52	.64	.57	.52	.63	.56	.51	.61	.55	.51	.60	.54	.50	.49
7.0	.60	.52	.47	.59	.52	.46	.58	.51	.46	.56	.50	.46	.55	.50	.46	.44
8.0	.55	.47	.42	.54	.47	.42	.53	.47	.42	.52	.46	.42	.51	.45	.41	.40
9.0	.51	.43	.38	.50	.43	.38	.49	.43	.38	.48	.42	.38	.47	.42	.38	.36
10.0	.47	.40	.35	.47	.40	.35	.46	.39	.35	.45	.39	.35	.44	.39	.35	.33



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:DAMIN  
 Test Date:2023-07-03

□ Range: 0 - 90DEG  
 □ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.461  
 Humidity:65.0%  
 Test Distance:9.680m [K=1.0000]  
 Remarks:

**WEC AND CCEC**

Test:U:119.48V I:0.0968A P:11.177W PF:0.9667 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1422.61x1 lm		
NAME: DL254-6-30W-M-A5C5-HO	TYPE: 12W	WEIGHT:
SPEC.: 3500K	DIM.: 0.21	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.15	Shielding Angle:

<input type="checkbox"/> cc	80%			70%			50%			30%			10%			0
<input type="checkbox"/> w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
<input type="checkbox"/> fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.242	.138	.044	.235	.134	.043	.222	.128	.041	.210	.121	.039	.200	.116	.037	
2.0	.234	.128	.039	.228	.126	.039	.217	.121	.037	.206	.116	.036	.197	.111	.035	
3.0	.222	.118	.035	.217	.116	.035	.207	.112	.034	.198	.108	.033	.189	.105	.032	
4.0	.209	.109	.032	.205	.107	.032	.196	.104	.031	.188	.101	.030	.181	.098	.030	
5.0	.197	.100	.029	.193	.099	.029	.185	.096	.028	.178	.094	.028	.172	.092	.028	
6.0	.186	.093	.027	.182	.092	.026	.175	.090	.026	.169	.088	.026	.163	.086	.025	
7.0	.175	.087	.025	.172	.086	.024	.166	.084	.024	.160	.082	.024	.155	.080	.024	
8.0	.165	.081	.023	.163	.080	.023	.157	.079	.022	.152	.077	.022	.147	.076	.022	
9.0	.157	.076	.021	.154	.075	.021	.149	.074	.021	.145	.072	.021	.140	.071	.021	
10.0	.149	.071	.020	.146	.071	.020	.142	.069	.020	.138	.068	.019	.134	.067	.019	

<input type="checkbox"/> cc	80%			70%			50%			30%			10%			0
<input type="checkbox"/> w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
<input type="checkbox"/> fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0																
1.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
2.0	.176	.157	.140	.150	.135	.120	.103	.093	.083	.059	.054	.048	.019	.017	.016	
3.0	.165	.132	.105	.141	.114	.091	.097	.079	.063	.056	.046	.037	.018	.015	.012	
4.0	.155	.114	.081	.133	.098	.070	.091	.068	.049	.053	.040	.029	.017	.013	.010	
5.0	.147	.100	.064	.126	.086	.056	.087	.060	.039	.050	.035	.023	.016	.011	.008	
6.0	.140	.089	.052	.120	.077	.045	.083	.054	.032	.048	.032	.019	.015	.010	.006	
7.0	.133	.081	.043	.114	.070	.038	.079	.049	.027	.046	.029	.016	.015	.009	.005	
8.0	.126	.074	.036	.109	.064	.032	.075	.045	.023	.044	.026	.013	.014	.009	.004	
9.0	.121	.068	.031	.104	.059	.027	.072	.041	.019	.042	.024	.012	.014	.008	.004	
10.0	.115	.063	.027	.099	.054	.024	.069	.038	.017	.040	.023	.010	.013	.007	.003	
10.0	.110	.058	.024	.095	.051	.021	.066	.036	.015	.038	.021	.009	.012	.007	.003	

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:DAMIN  
 Test Date:2023-07-03

Range: 0 - 90DEG  
 Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.461  
 Humidity:65.0%  
 Test Distance:9.680m [K=1.0000]  
 Remarks:

**UGR(Unified Glare Rating) Table**

Test:U:119.48V I:0.0968A P:11.177W PF:0.9667 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1422.61x1 lm		
NAME: DL254-6-30W-M-A5C5-HO	TYPE: 12W	WEIGHT:
SPEC.: 3500K	DIM.: 0.21	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.15	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	21.9	23.2	22.2	23.4	23.6	22.1	23.4	22.3	23.6	23.8
3H	22.1	23.3	22.4	23.5	23.8	22.3	23.5	22.6	23.7	23.9
4H	22.2	23.4	22.5	23.6	23.8	22.4	23.5	22.7	23.7	24.0
6H	22.3	23.4	22.6	23.6	23.9	22.5	23.5	22.8	23.8	24.0
8H	22.3	23.4	22.7	23.6	23.9	22.5	23.5	22.8	23.8	24.0
12H	22.3	23.3	22.7	23.6	23.9	22.5	23.4	22.8	23.7	24.0
4H 2H	22.0	23.1	22.3	23.4	23.6	22.1	23.3	22.4	23.5	23.8
3H	22.3	23.3	22.7	23.6	23.9	22.5	23.4	22.8	23.7	24.0
4H	22.5	23.4	22.9	23.7	24.0	22.6	23.5	23.0	23.8	24.2
6H	22.7	23.5	23.1	23.8	24.2	22.8	23.6	23.2	23.9	24.3
8H	22.8	23.5	23.2	23.8	24.2	22.9	23.6	23.3	24.0	24.3
12H	22.8	23.5	23.2	23.8	24.2	22.9	23.6	23.3	23.9	24.3
8H 4H	22.5	23.3	22.9	23.6	24.0	22.7	23.4	23.1	23.7	24.1
6H	22.8	23.4	23.3	23.8	24.2	22.9	23.5	23.4	23.9	24.3
8H	22.9	23.5	23.4	23.9	24.3	23.0	23.6	23.5	24.0	24.4
12H	23.0	23.5	23.5	23.9	24.4	23.1	23.5	23.6	24.0	24.5
12H 4H	22.5	23.2	22.9	23.6	24.0	22.6	23.3	23.1	23.7	24.1
6H	22.8	23.3	23.3	23.8	24.2	22.9	23.5	23.4	23.9	24.3
8H	23.0	23.4	23.4	23.8	24.3	23.1	23.5	23.5	24.0	24.4

Variations with the observer position at spacings(CIE Pub.117):		
S = 1.0H	+ 0.8 / - 1.0	+ 0.7 / - 1.0
1.5H	+ 0.4 / - 0.4	+ 0.4 / - 0.4
2.0H	+ 1.7 / - 1.9	+ 1.7 / - 1.9

CIE Pub.117, 1423 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 1.2)  
 Area: 0.018 m2

C Range: 0 - 360DEG	<input type="checkbox"/> Range: 0 - 90DEG
C Interval: 22.5DEG	<input type="checkbox"/> Interval: 1.0DEG
Test Speed: HIGH	Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Temperature:25.3°C	Humidity:65.0%
Operators:DAMIN	Test Distance:9.680m [K=1.0000]
Test Date:2023-07-03	Remarks:

**UTILIZATION FACTORS TABLE**

Test:U:119.48V I:0.0968A P:11.177W PF:0.9667 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1422.61x1 lm		
NAME: DL254-6-30W-M-A5C5-HO	TYPE: 12W	WEIGHT:
SPEC.: 3500K	DIM.: 0.21	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.15	Shielding Angle:

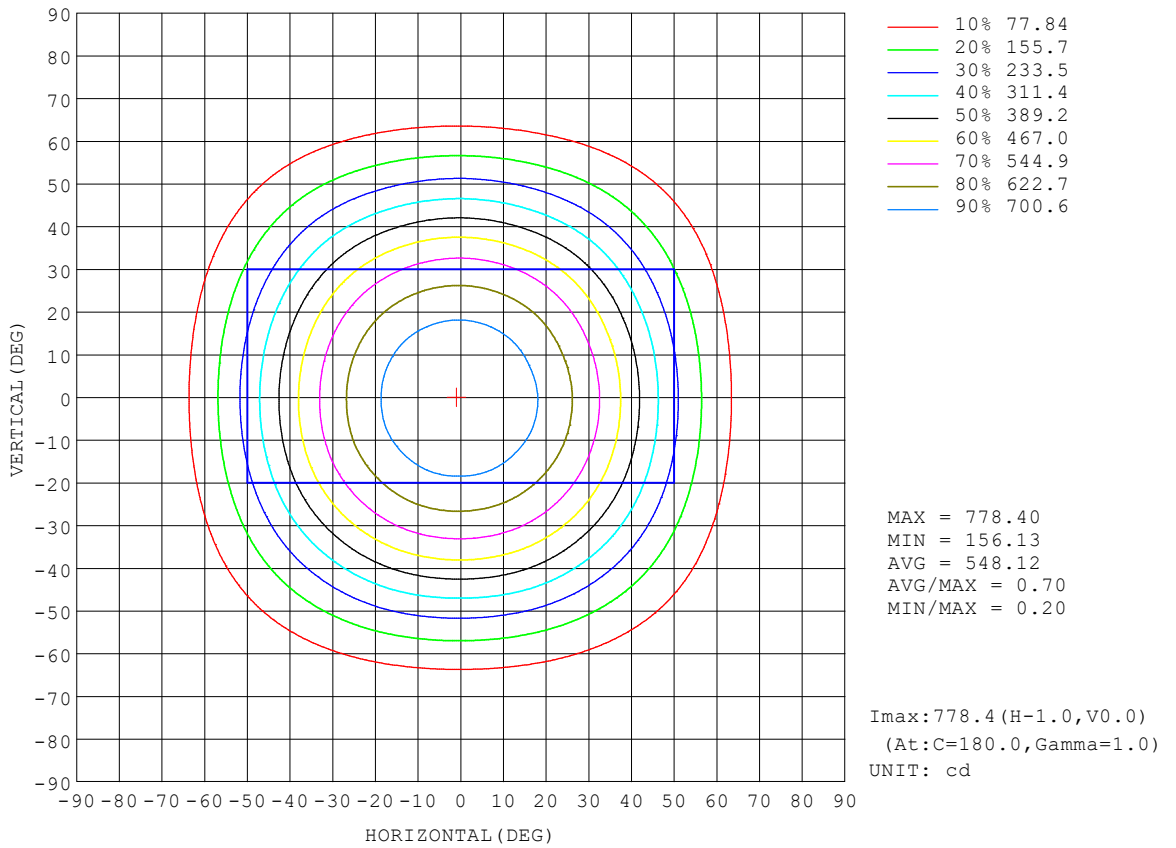
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	68	58	52	67	58	52	66	57	52	46
0.80	78	68	62	77	68	62	75	67	62	56
1.00	86	77	71	84	76	71	82	77	70	64
1.25	92	84	78	91	83	78	88	82	77	71
1.50	96	88	83	95	88	83	92	86	82	75
2.00	101	95	90	100	94	89	97	92	88	81
2.50	104	98	94	102	97	93	99	94	91	84
3.00	107	102	97	105	100	96	101	97	94	87
4.00	110	105	102	107	104	100	104	100	98	90
5.00	111	108	105	109	106	103	105	102	100	92
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:DAMIN  
 Test Date:2023-07-03

Range: 0 - 90DEG  
 Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.461  
 Humidity:65.0%  
 Test Distance:9.680m [K=1.0000]  
 Remarks:

**ISOCANDELA DIAGRAM**

Test:U:119.48V I:0.0968A P:11.177W PF:0.9667 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1422.61x1 lm		
NAME: DL254-6-30W-M-A5C5-HO	TYPE: 12W	WEIGHT:
SPEC.: 3500K	DIM.: 0.21	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.15	Shielding Angle:



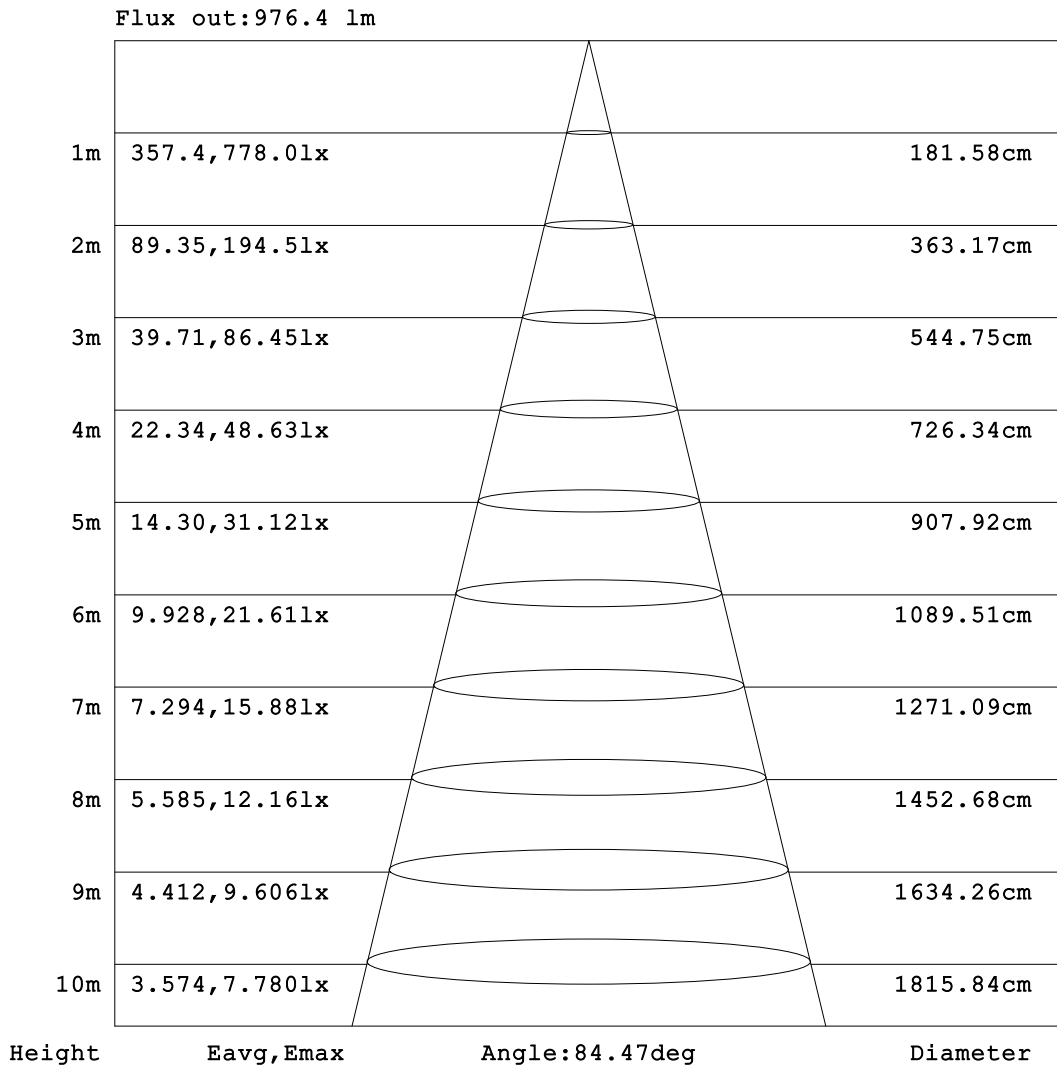
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3°C  
 Operators: DAMIN  
 Test Date: 2023-07-03

Range: 0 - 90DEG  
 Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.461  
 Humidity: 65.0%  
 Test Distance: 9.680m [K=1.0000]  
 Remarks:



**AAI Figure**

Test:U:119.48V I:0.0968A P:11.177W PF:0.9667 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1422.61x1 lm		
NAME: DL254-6-30W-M-A5C5-HO	TYPE: 12W	WEIGHT:
SPEC.: 3500K	DIM.: 0.21	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.15	Shielding Angle:



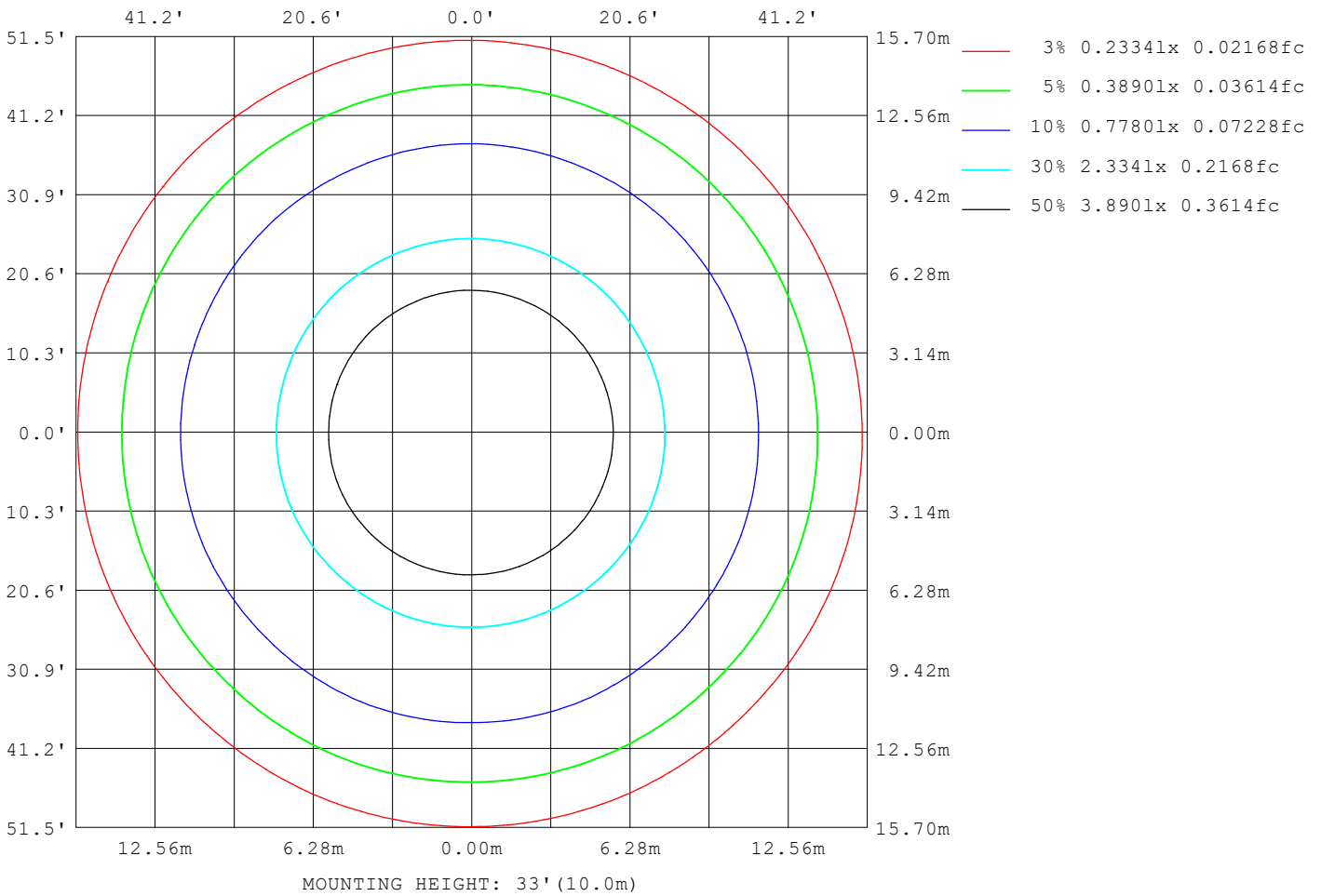
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3°C  
 Operators: DAMIN  
 Test Date: 2023-07-03

Range: 0 - 90DEG  
 Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.461  
 Humidity: 65.0%  
 Test Distance: 9.680m [K=1.0000]  
 Remarks:

**ISOLUX DIAGRAM**

Test:U:119.48V I:0.0968A P:11.177W PF:0.9667 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1422.61x1 lm		
NAME: DL254-6-30W-M-A5C5-HO	TYPE: 12W	WEIGHT:
SPEC.: 3500K	DIM.: 0.21	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.15	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:DAMIN  
 Test Date:2023-07-03

Range: 0 - 90DEG  
 Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.461  
 Humidity:65.0%  
 Test Distance:9.680m [K=1.0000]  
 Remarks:

**LED Avg.L Report**

Test:U:119.48V I:0.0968A P:11.177W PF:0.9667 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1422.61x1 lm		
NAME: DL254-6-30W-M-A5C5-HO	TYPE: 12W	WEIGHT:
SPEC.: 3500K	DIM.: 0.21	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.15	Shielding Angle:

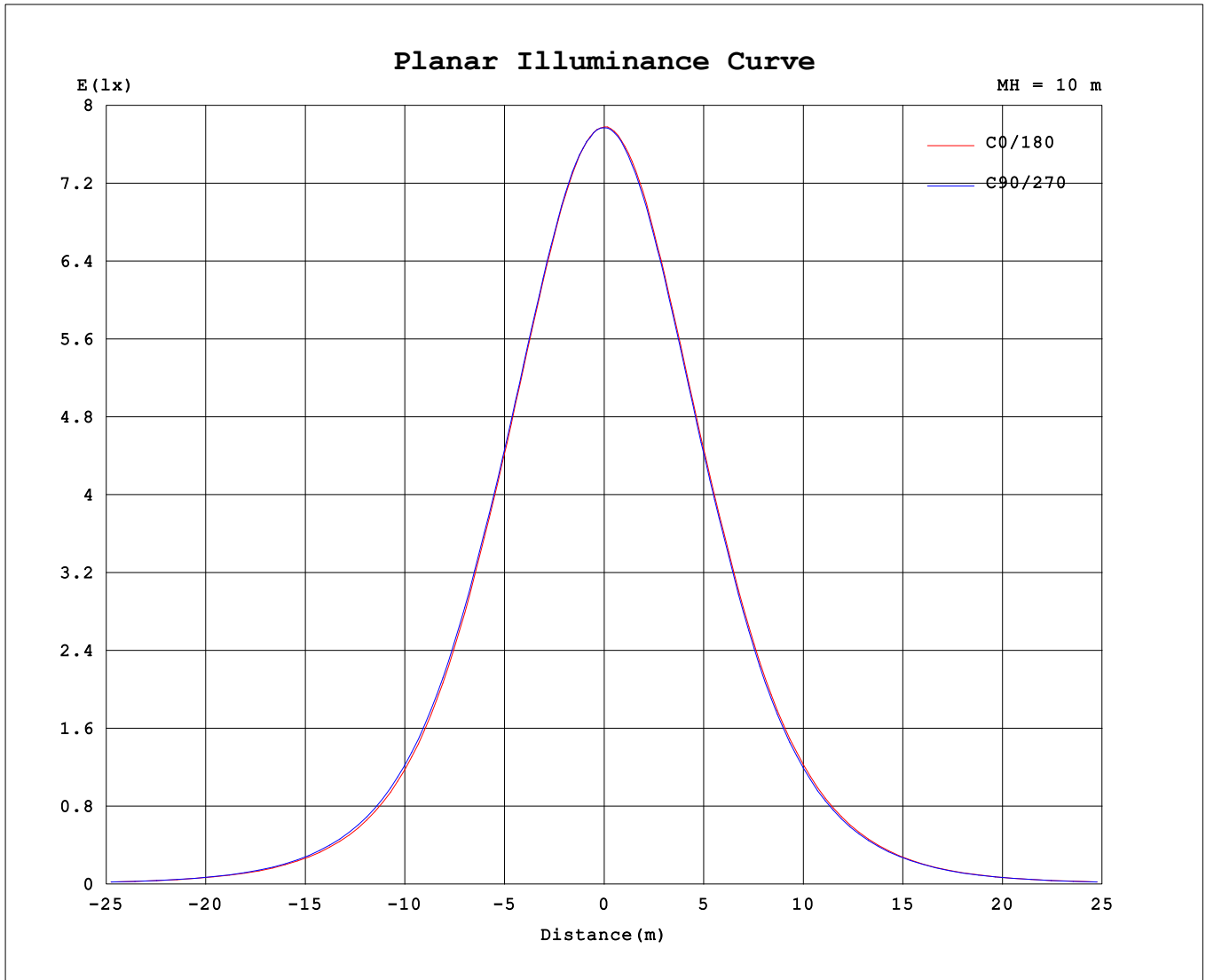
AvgL	cd/m2
L_0~180 (65) av	8712
L_0~180 (75) av	6472
L_0~180 (85) av	5070
L_90~270 (65) av	8757
L_90~270 (75) av	6490
L_90~270 (85) av	3888
L_45 (65) av	8733
L_45 (75) av	6506
L_45 (85) av	4356

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3℃  
 Operators:DAMIN  
 Test Date:2023-07-03

Range: 0 - 90DEG  
 Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.461  
 Humidity:65.0%  
 Test Distance:9.680m [K=1.0000]  
 Remarks:

**Planar Illuminance Curve**



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3°C  
 Operators: DAMIN  
 Test Date: 2023-07-03

Range: 0 - 90DEG  
 Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.461  
 Humidity: 65.0%  
 Test Distance: 9.680m [K=1.0000]  
 Remarks:

