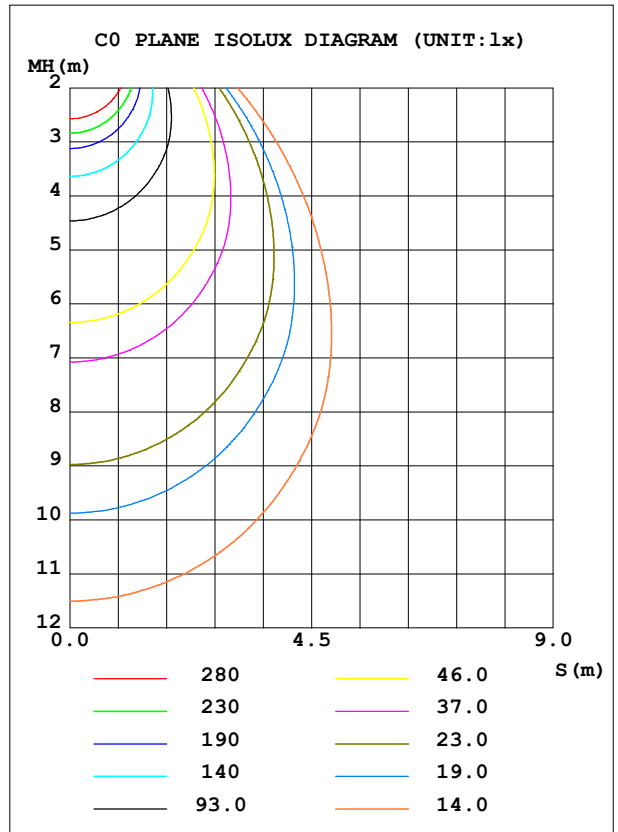
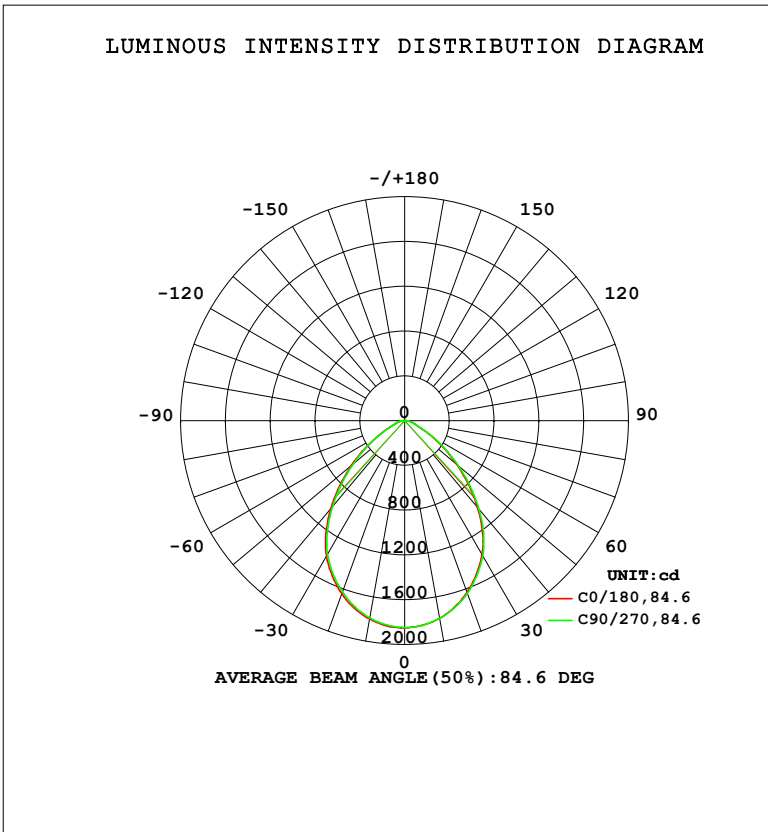


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.57V I:0.2355A P:27.868W PF:0.9896 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3393.36x1 lm		
NAME: DL254-6-30W-M-A5C5-HO	TYPE: 30W	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)	1852	S/MH (C0/180)	1.14
NOMINAL POWER (W)	30	LOR (%)	100.0	S/MH (C90/270)	1.14
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	3393.4	<input type="checkbox"/> UP, DN (C0-180)	0.0,49.7
NOMINAL FLUX (lm)	3393.36	CIE CLASS	DIRECT	<input type="checkbox"/> UP, DN (C180-360)	0.0,50.3
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:2023-06-30

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	1798	1794	1790	1788	1793	1795	1795	1793	0- 10	173.8	173.8	5.12,5.12
20	1644	1634	1626	1629	1631	1636	1640	1638	10- 20	485.8	659.6	19.4,19.4
30	1399	1384	1377	1380	1382	1392	1397	1394	20- 30	698.9	1359	40,40
40	1028	1011	1003	1007	1013	1030	1034	1031	30- 40	757.5	2116	62.4,62.4
50	619.2	601.8	596.1	596.0	609.1	627.2	627.0	619.9	40- 50	625.7	2742	80.8,80.8
60	276.1	272.2	263.9	267.3	278.1	287.5	284.8	276.0	50- 60	387.1	3129	92.2,92.2
70	97.34	96.55	97.06	98.31	99.71	100.8	100.1	98.57	60- 70	167.9	3297	97.2,97.2
80	43.76	44.93	45.04	46.21	46.68	47.13	45.42	45.30	70- 80	76.20	3373	99.4,99.4
90	0.8981	0.9243	0.8587	0.8849	1.547	1.482	1.495	1.488	80- 90	20.27	3393	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): 2454.9 lm

%lum = 72.3%

%lamp = 72.3%

Conical surface Flux(130deg): 3233.3 lm

%lum = 95.3%

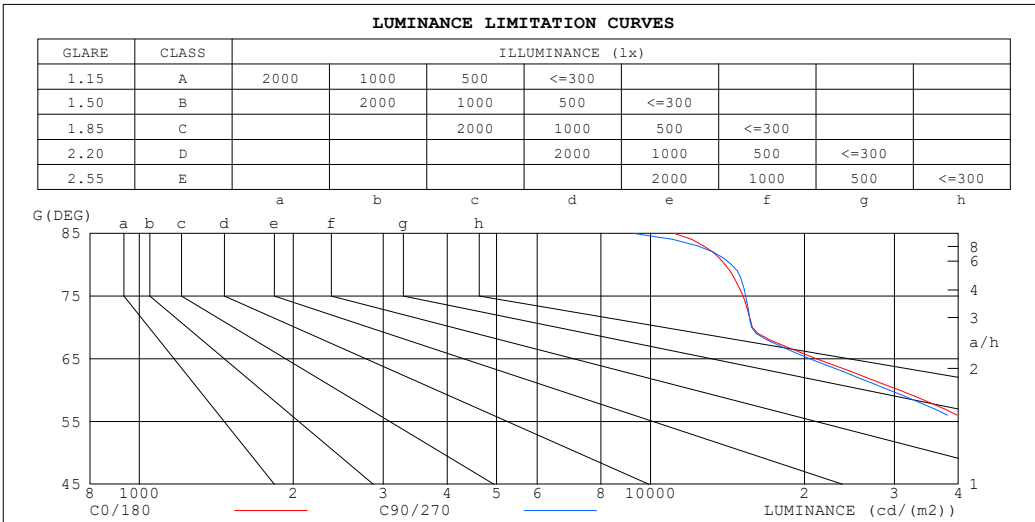
%lamp = 95.3%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2023-06-30

□ 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:119.57V I:0.2355A P:27.868W PF:0.9896 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3393.36x1 lm		
NAME: DL254-6-30W-M-A5C5-HO	TYPE: 30W	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	11129	9235
80	14000	14409
75	15157	15351
70	15811	15766
65	21107	20501
60	30681	29327
55	42119	40368
50	53521	51520
45	64429	62502

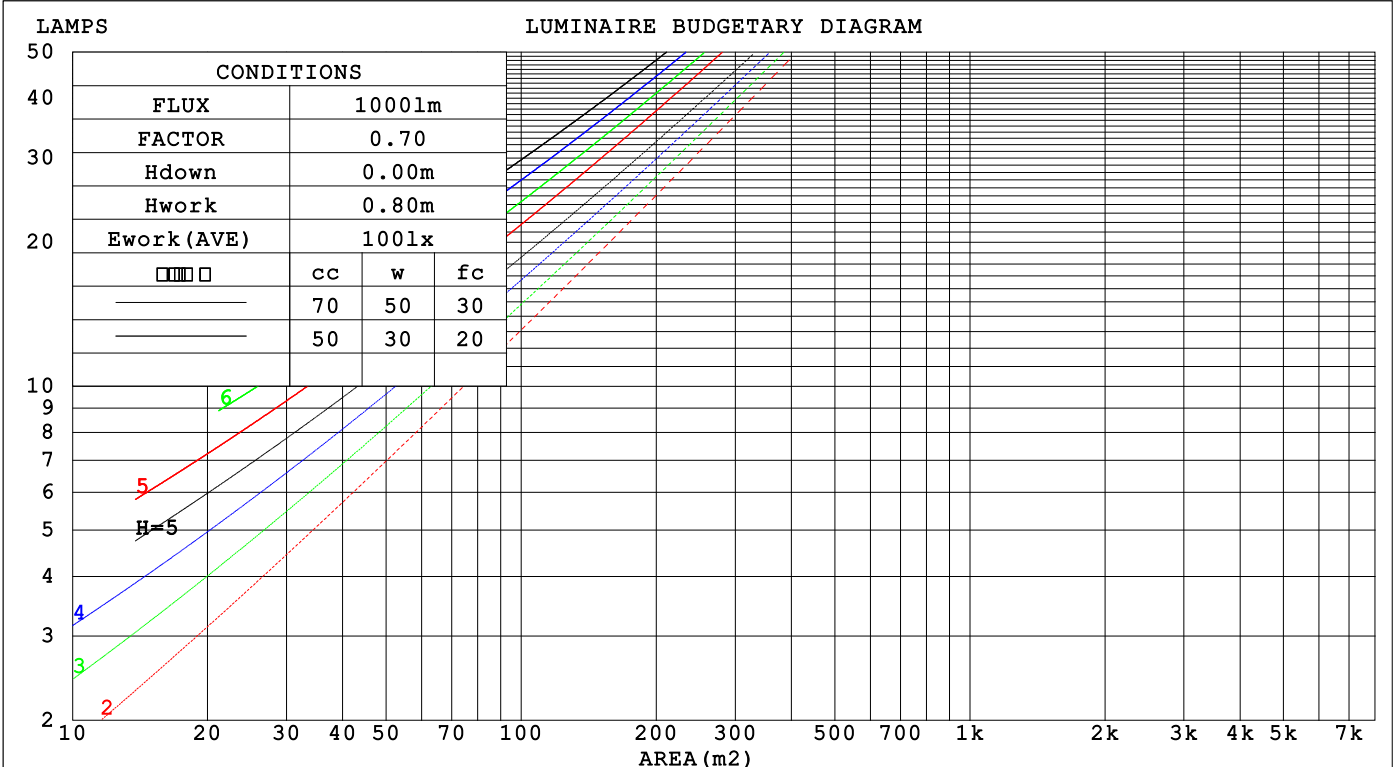
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2023-06-30

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:119.57V I:0.2355A P:27.868W PF:0.9896 Freq:60.01Hz		
UTHdi:0.00% ITHdi:0.00% KDisp:0 Lamp Flux:3393.36x1 lm		
NAME: DL254-6-30W-M-A5C5-HO	TYPE: 30W	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	.77	.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	.56	.65	.60	.56	.54
6.0	.65	.57	.52	.64	.57	.51	.63	.56	.51	.61	.55	.51	.59	.54	.50	.48
7.0	.60	.52	.47	.59	.52	.46	.58	.51	.46	.56	.50	.46	.55	.50	.45	.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:2023-06-30

□ 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:119.57V I:0.2355A P:27.868W PF:0.9896 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3393.36x1 lm		
NAME: DL254-6-30W-M-A5C5-HO	TYPE: 30W	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	.236 .134 .043	.223 .128 .041	.211 .122 .039	.200 .116 .037	
2.0	.234 .128 .039	.228 .126 .039	.217 .121 .037	.207 .116 .036	.197 .112 .035	
3.0	.222 .118 .035	.217 .116 .035	.207 .112 .034	.198 .109 .033	.190 .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	.186 .097 .028	.178 .094 .028	.172 .092 .028	
6.0	.186 .093 .027	.182 .092 .026	.175 .090 .026	.169 .088 .026	.163 .086 .026	
7.0	.175 .087 .025	.172 .086 .024	.166 .084 .024	.160 .082 .024	.155 .081 .024	
8.0	.166 .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 .073 .021	.140 .071 .021	
10.0	.149 .071 .020	.146 .071 .020	.142 .070 .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	.190 .190 .190	.163 .163 .163	.111 .111 .111	.064 .064 .064	.020 .020 .020	
1.0	.176 .157 .140	.150 .135 .120	.103 .093 .083	.059 .054 .048	.019 .017 .016	
2.0	.165 .132 .105	.141 .114 .091	.097 .079 .063	.056 .046 .037	.018 .015 .012	
3.0	.155 .114 .081	.133 .098 .070	.091 .068 .049	.053 .040 .029	.017 .013 .010	
4.0	.147 .100 .064	.126 .086 .056	.087 .060 .039	.050 .035 .023	.016 .011 .008	
5.0	.140 .089 .052	.120 .077 .045	.083 .054 .032	.048 .032 .019	.015 .010 .006	
6.0	.133 .081 .043	.114 .070 .038	.079 .049 .027	.046 .029 .016	.015 .009 .005	
7.0	.127 .074 .036	.109 .064 .032	.075 .045 .022	.044 .026 .013	.014 .009 .004	
8.0	.121 .068 .031	.104 .059 .027	.072 .041 .019	.042 .024 .012	.014 .008 .004	
9.0	.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:2023-06-30

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:119.57V I:0.2355A P:27.868W PF:0.9896 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3393.36x1 lm		
NAME: DL254-6-30W-M-A5C5-HO	TYPE: 30W	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	25.0	26.3	25.3	26.5	26.7	24.9	26.2	25.1	26.4	26.6
3H	25.2	26.4	25.5	26.7	26.9	25.1	26.3	25.4	26.5	26.7
4H	25.3	26.5	25.6	26.7	26.9	25.2	26.3	25.5	26.6	26.8
6H	25.4	26.5	25.7	26.7	27.0	25.3	26.4	25.6	26.6	26.9
8H	25.4	26.5	25.8	26.7	27.0	25.3	26.3	25.7	26.6	26.9
12H	25.4	26.4	25.8	26.7	27.0	25.3	26.3	25.7	26.6	26.9
4H 2H	25.1	26.2	25.4	26.5	26.7	25.0	26.1	25.3	26.3	26.6
3H	25.4	26.4	25.8	26.7	27.0	25.3	26.3	25.7	26.6	26.9
4H	25.6	26.5	26.0	26.8	27.1	25.5	26.4	25.9	26.7	27.0
6H	25.8	26.6	26.2	26.9	27.3	25.7	26.5	26.1	26.8	27.2
8H	25.8	26.6	26.2	26.9	27.3	25.8	26.5	26.2	26.8	27.2
12H	25.9	26.5	26.3	26.9	27.3	25.8	26.4	26.2	26.8	27.2
8H 4H	25.6	26.3	26.0	26.7	27.1	25.5	26.2	25.9	26.6	27.0
6H	25.9	26.5	26.3	26.9	27.3	25.8	26.4	26.2	26.8	27.2
8H	26.0	26.5	26.5	26.9	27.4	25.9	26.4	26.4	26.9	27.3
12H	26.1	26.5	26.5	27.0	27.4	26.0	26.4	26.4	26.9	27.3
12H 4H	25.6	26.3	26.0	26.6	27.0	25.5	26.2	25.9	26.5	26.9
6H	25.9	26.4	26.3	26.8	27.3	25.8	26.3	26.3	26.8	27.2
8H	26.0	26.5	26.5	26.9	27.4	25.9	26.4	26.4	26.8	27.3

Variations with the observer position at spacings(CIE Pub.117):		
S = 1.0H	+ 0.7 / - 1.0	+ 0.8 / - 1.0
1.5H	+ 0.4 / - 0.4	+ 0.4 / - 0.4
2.0H	+ 1.7 / - 1.9	+ 1.7 / - 1.8

CIE Pub.117, 3393 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 4.2)
 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:2023-06-30	Remarks:

UTILIZATION FACTORS TABLE

Test:U:119.57V I:0.2355A P:27.868W PF:0.9896 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3393.36x1 lm		
NAME: DL254-6-30W-M-A5C5-HO	TYPE: 30W	WEIGHT:
SPEC.: 3500K	DIM.: 0.21	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.15	Shielding Angle:

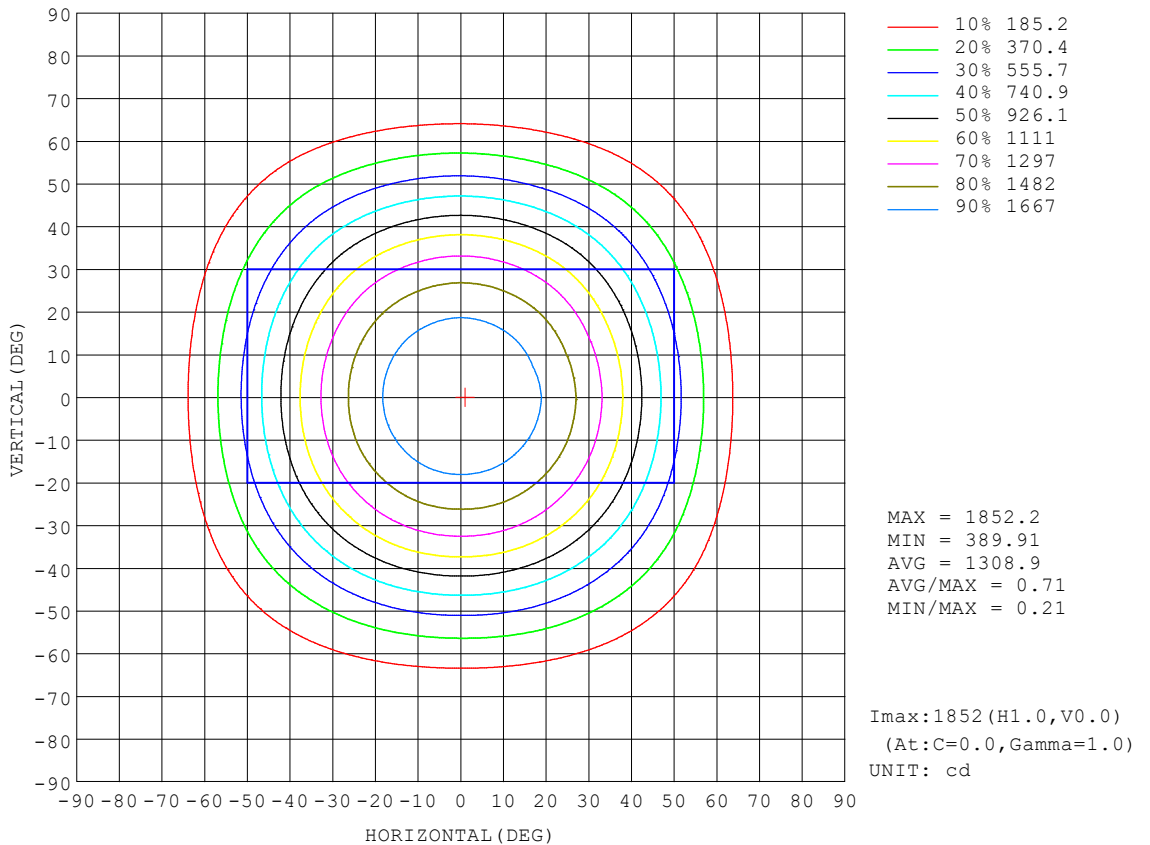
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	68	58	52	67	58	52	66	57	52	46
0.80	78	68	62	77	68	62	75	67	62	56
1.00	85	77	71	84	76	71	82	77	70	64
1.25	92	84	78	90	83	78	88	82	77	71
1.50	96	88	83	95	88	83	92	86	81	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	91
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:2023-06-30

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:119.57V I:0.2355A P:27.868W PF:0.9896 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3393.36x1 lm		
NAME: DL254-6-30W-M-A5C5-HO	TYPE: 30W	WEIGHT:
SPEC.: 3500K	DIM.: 0.21	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.15	Shielding Angle:

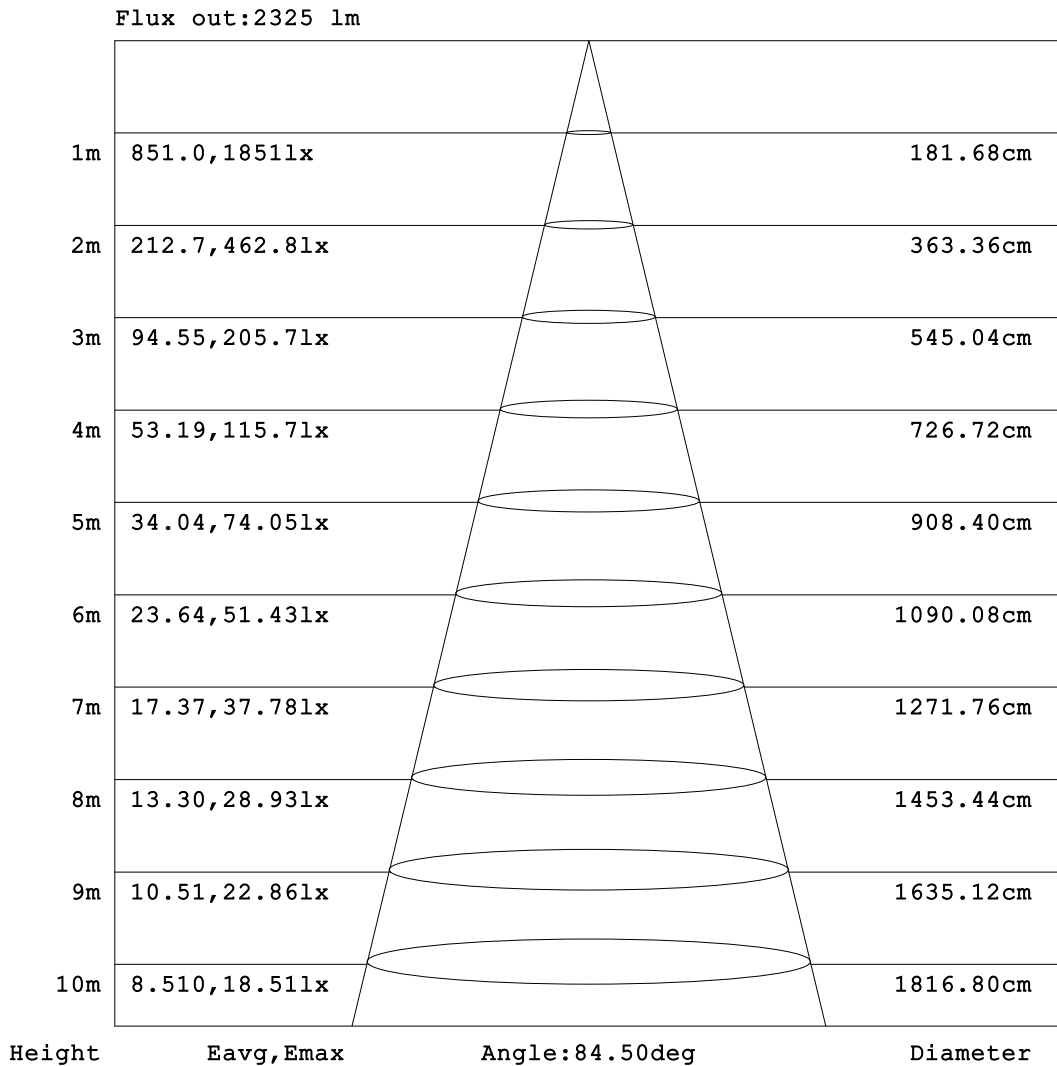


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2023-06-30

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:119.57V I:0.2355A P:27.868W PF:0.9896 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3393.36x1 lm		
NAME: DL254-6-30W-M-A5C5-HO	TYPE: 30W	WEIGHT:
SPEC.: 3500K	DIM.: 0.21	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.15	Shielding Angle:



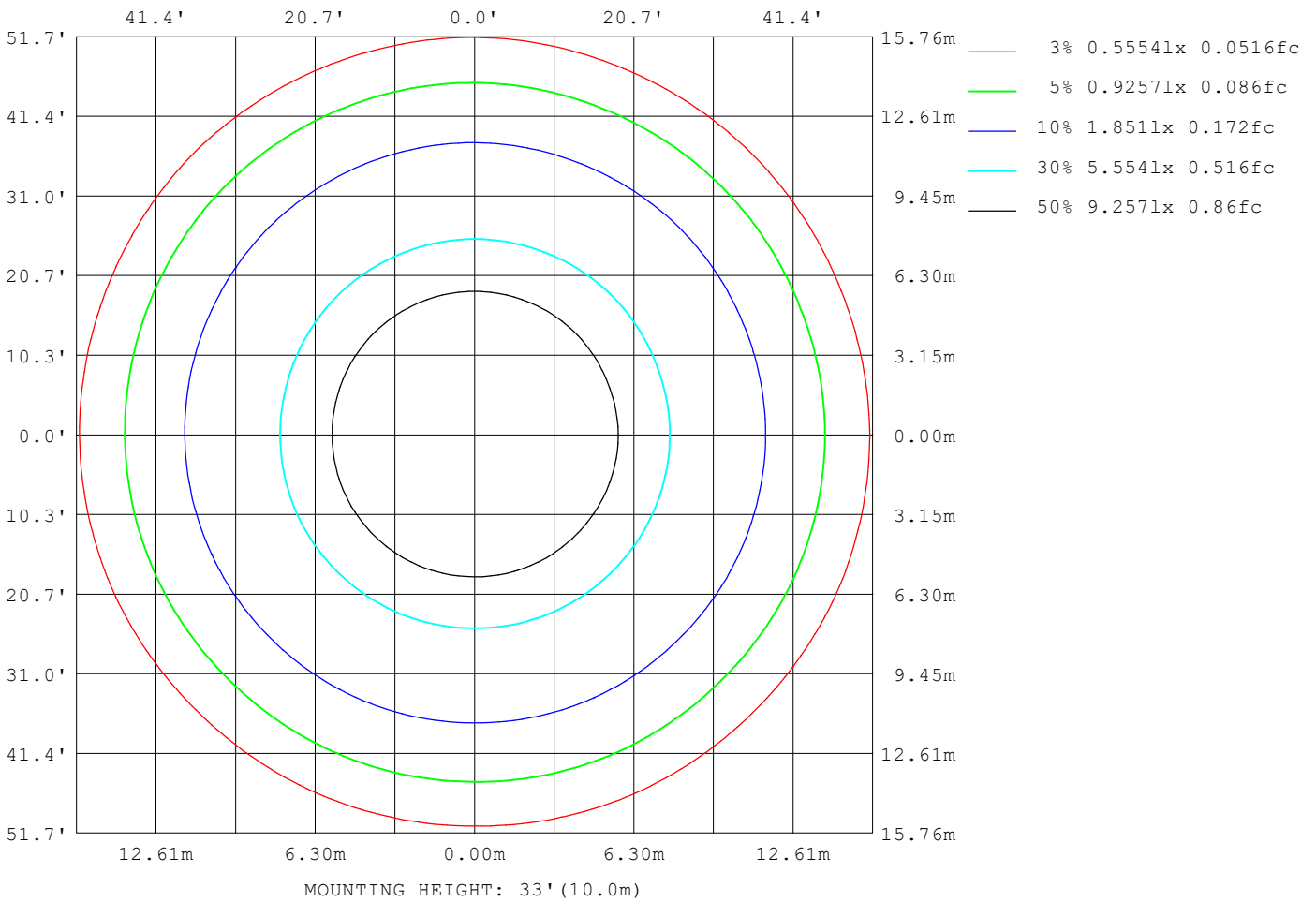
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: DAMIN
 Test Date: 2023-06-30

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:119.57V I:0.2355A P:27.868W PF:0.9896 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3393.36x1 lm		
NAME: DL254-6-30W-M-A5C5-HO	TYPE: 30W	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:2023-06-30

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:119.57V I:0.2355A P:27.868W PF:0.9896 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3393.36x1 lm		
NAME: DL254-6-30W-M-A5C5-HO	TYPE: 30W	WEIGHT:
SPEC.: 3500K	DIM.: 0.21	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.15	Shielding Angle:

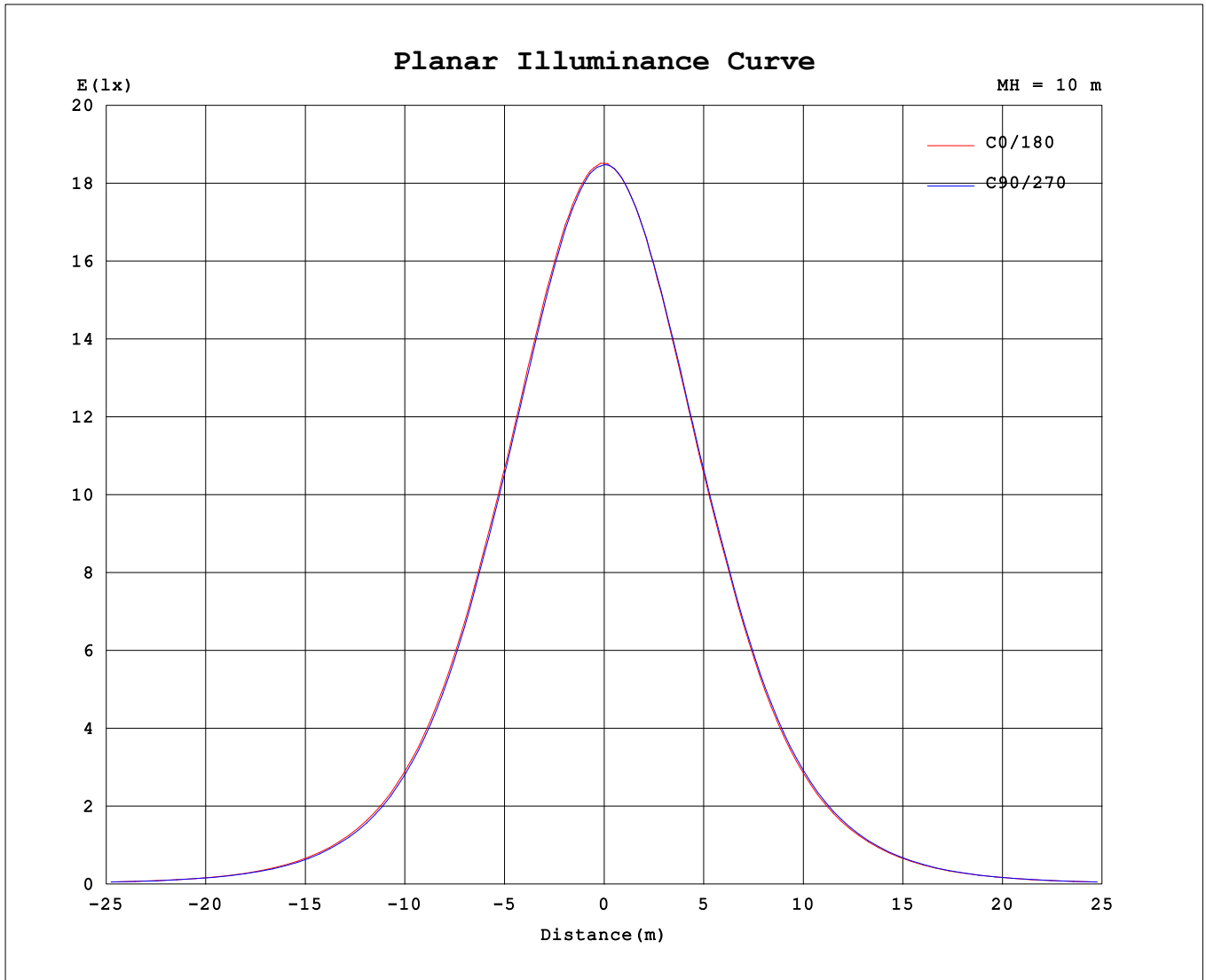
AvgL	cd/m2
L_0~180 (65) av	21328
L_0~180 (75) av	15445
L_0~180 (85) av	12075
L_90~270 (65) av	21239
L_90~270 (75) av	15564
L_90~270 (85) av	9252
L_45 (65) av	21346
L_45 (75) av	15570
L_45 (85) av	10756

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:DAMIN
 Test Date:2023-06-30

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: 2023-06-30

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:

LUMINOUS DISTRIBUTION INTENSITY DATA

Table with 3 columns: NAME, TYPE, WEIGHT; SPEC., DIM., SERIAL No.; MFR., SUR., Shielding Angle. Contains test parameters like UTHDi, ITTHDi, KDisp, Lamp Flux, and specific product details for DL254-6-30W-M-A5C5-HO.

Table--1

UNIT: cd

Large data table with 18 columns representing C (DEG) and 18 rows representing phi (DEG). Contains numerical intensity data for various angles from 0 to 90 degrees.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3C
Operators:DAMIN
Test Date:2023-06-30

phi Range: 0 - 90DEG
phi Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.680m [K=1.0000]
Remarks: