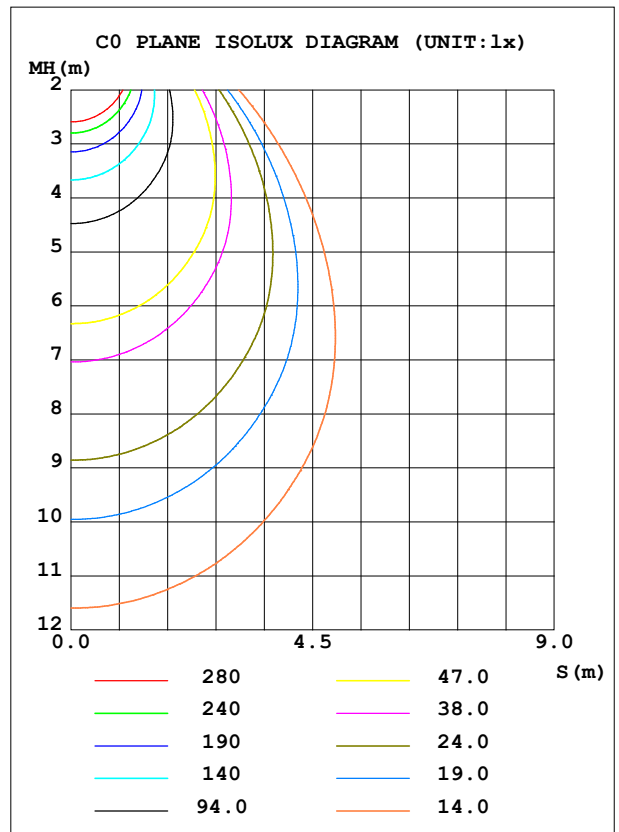
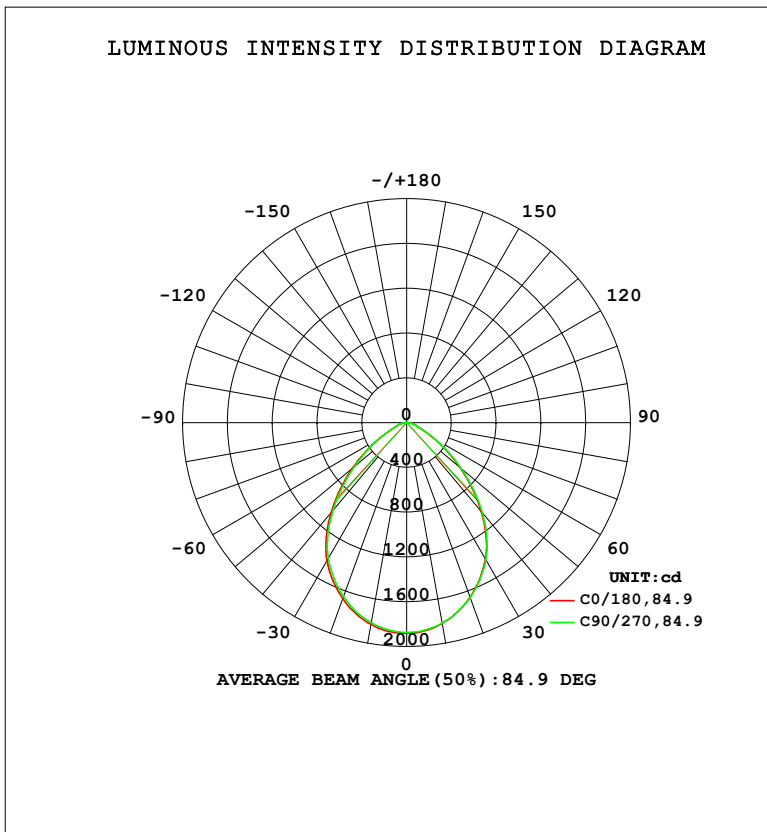


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.58V I:0.2374A P:28.112W PF:0.9902 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3449.4x1 lm		
NAME: DL254-6-30W-M-A5C5-HO	TYPE: 30W	WEIGHT:
SPEC.: 5000K	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)	1882	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)	3449.4	<input type="checkbox"/> UP, DN (C0-180)	0.0,49.7
NOMINAL FLUX (lm)	3449.4	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:2023-06-29

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	1830	1820	1816	1814	1822	1821	1818	1818	0- 10	176.3	176.3	5.11,5.11
20	1671	1659	1651	1651	1658	1661	1663	1660	10- 20	492.8	669.1	19.4,19.4
30	1423	1407	1400	1400	1409	1414	1416	1413	20- 30	709.5	1379	40,40
40	1051	1031	1025	1029	1037	1051	1054	1050	30- 40	771.1	2150	62.3,62.3
50	631.0	613.3	606.1	607.1	621.2	638.9	637.5	628.6	40- 50	638.3	2788	80.8,80.8
60	278.7	274.3	266.2	269.0	280.6	290.0	286.8	277.1	50- 60	391.9	3180	92.2,92.2
70	100.0	98.97	99.48	100.7	102.4	103.4	102.6	100.8	60- 70	170.5	3350	97.1,97.1
80	45.07	46.17	46.27	47.46	47.87	47.75	46.51	46.36	70- 80	78.16	3429	99.4,99.4
90	0.9177	0.9505	0.8784	0.9046	1.573	1.508	1.521	1.514	80- 90	20.85	3449	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): 2495.5 lm

%lum = 72.3%

%lamp = 72.3%

Conical surface Flux(130deg): 3285.4 lm

%lum = 95.2%

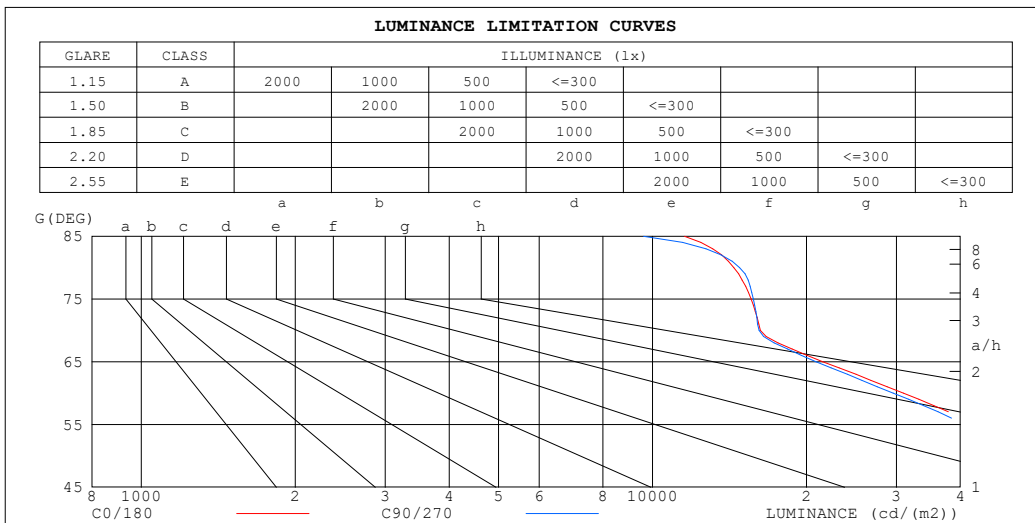
%lamp = 95.2%

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:DAMIN  
 Test Date:2023-06-29

□ 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:119.58V I:0.2374A P:28.112W PF:0.9902 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3449.4x1 lm		
NAME: DL254-6-30W-M-A5C5-HO	TYPE: 30W	WEIGHT:
SPEC.: 5000K	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	11542	9601
80	14419	14803
75	15590	15741
70	16249	16159
65	21537	20903
60	30970	29576
55	42662	40802
50	54533	52385
45	65852	63798

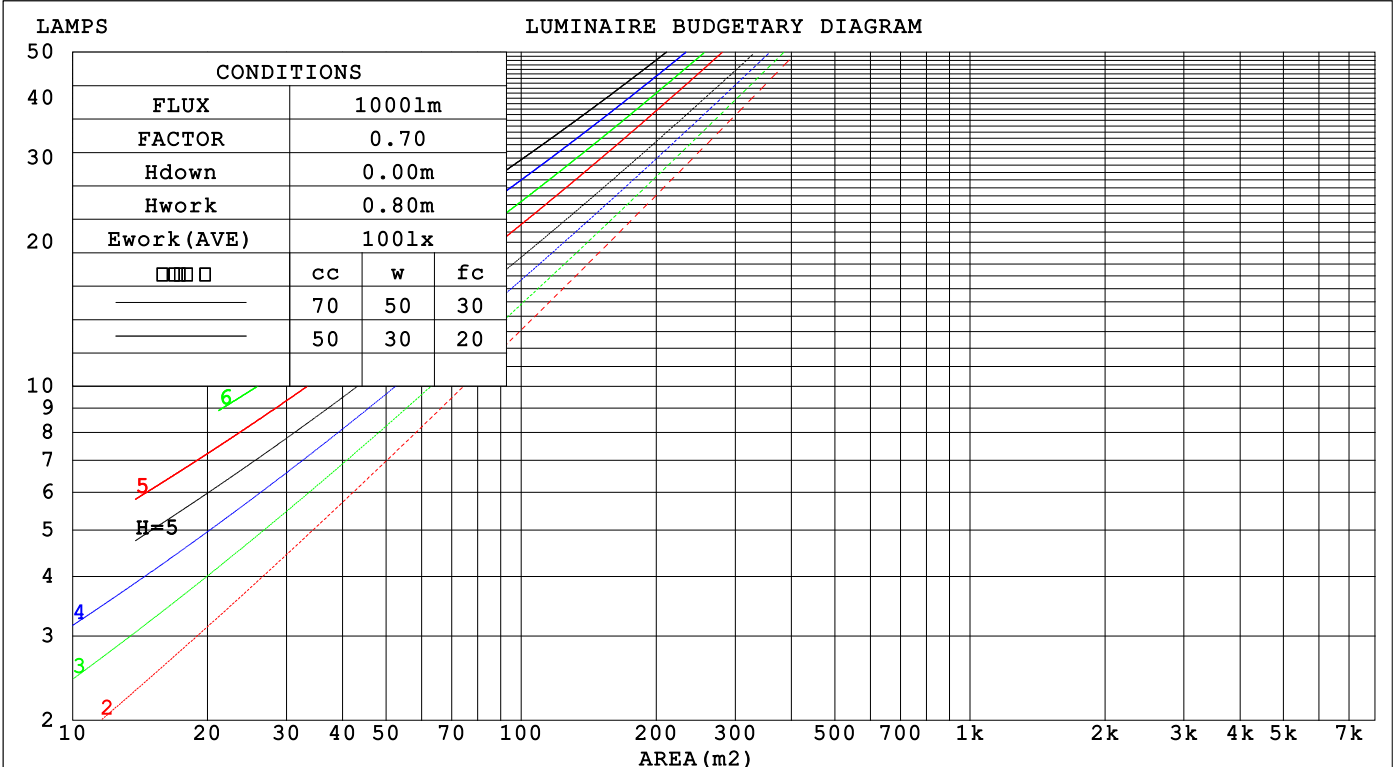
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:DAMIN  
 Test Date:2023-06-29

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:119.58V I:0.2374A P:28.112W PF:0.9902 Freq:60.01Hz		
UTHdi:0.00% ITHdi:0.00% KDisp:0 Lamp Flux:3449.4x1 lm		
NAME: DL254-6-30W-M-A5C5-HO	TYPE: 30W	WEIGHT:
SPEC.: 5000K	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	.81	.85	.82	.80	.78
3.0	.87	.80	.75	.85	.79	.74	.83	.77	.73	.80	.75	.72	.77	.74	.70	.68
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	.46	.59	.52	.46	.57	.51	.46	.56	.50	.46	.55	.50	.45	.44
8.0	.55	.47	.42	.54	.47	.42	.53	.46	.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:2023-06-29

□ 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:119.58V I:0.2374A P:28.112W PF:0.9902 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3449.4x1 lm		
NAME: DL254-6-30W-M-A5C5-HO	TYPE: 30W	WEIGHT:
SPEC.: 5000K	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	.243 .138 .044	.236 .134 .043	.223 .128 .041	.211 .122 .039	.200 .116 .037	
2.0	.234 .128 .039	.228 .126 .039	.217 .121 .038	.207 .116 .036	.197 .112 .035	
3.0	.222 .118 .035	.217 .116 .035	.207 .112 .034	.198 .109 .033	.190 .105 .033	
4.0	.209 .109 .032	.205 .107 .032	.196 .104 .031	.188 .101 .031	.181 .098 .030	
5.0	.197 .101 .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:2023-06-29

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:119.58V I:0.2374A P:28.112W PF:0.9902 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3449.4x1 lm		
NAME: DL254-6-30W-M-A5C5-HO	TYPE: 30W	WEIGHT:
SPEC.: 5000K	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	25.1	26.4	25.3	26.6	26.8	24.9	26.2	25.2	26.4	26.6
3H	25.3	26.5	25.6	26.7	26.9	25.2	26.4	25.4	26.6	26.8
4H	25.4	26.5	25.7	26.8	27.0	25.3	26.4	25.6	26.6	26.9
6H	25.5	26.5	25.8	26.8	27.1	25.4	26.4	25.7	26.7	26.9
8H	25.5	26.5	25.8	26.8	27.1	25.4	26.4	25.7	26.7	27.0
12H	25.5	26.5	25.8	26.8	27.0	25.4	26.4	25.7	26.6	26.9
4H 2H	25.2	26.3	25.5	26.5	26.8	25.0	26.2	25.3	26.4	26.6
3H	25.5	26.5	25.8	26.7	27.0	25.4	26.3	25.7	26.6	26.9
4H	25.7	26.6	26.0	26.9	27.2	25.6	26.4	25.9	26.8	27.1
6H	25.8	26.6	26.2	27.0	27.3	25.8	26.5	26.1	26.9	27.2
8H	25.9	26.6	26.3	27.0	27.4	25.8	26.5	26.2	26.9	27.3
12H	25.9	26.6	26.4	27.0	27.4	25.8	26.5	26.3	26.9	27.3
8H 4H	25.7	26.4	26.1	26.8	27.1	25.6	26.3	26.0	26.7	27.0
6H	26.0	26.6	26.4	27.0	27.4	25.9	26.5	26.3	26.9	27.3
8H	26.1	26.6	26.5	27.0	27.5	26.0	26.5	26.4	26.9	27.4
12H	26.1	26.6	26.6	27.0	27.5	26.1	26.5	26.5	26.9	27.4
12H 4H	25.7	26.3	26.1	26.7	27.1	25.6	26.2	26.0	26.6	27.0
6H	26.0	26.5	26.4	26.9	27.4	25.9	26.4	26.3	26.8	27.3
8H	26.1	26.5	26.6	27.0	27.5	26.0	26.5	26.5	26.9	27.4

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, 3449 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 4.3)  
 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:2023-06-29	Remarks:

**UTILIZATION FACTORS TABLE**

Test:U:119.58V I:0.2374A P:28.112W PF:0.9902 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3449.4x1 lm		
NAME: DL254-6-30W-M-A5C5-HO	TYPE: 30W	WEIGHT:
SPEC.: 5000K	DIM.: 0.21	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.15	Shielding Angle:

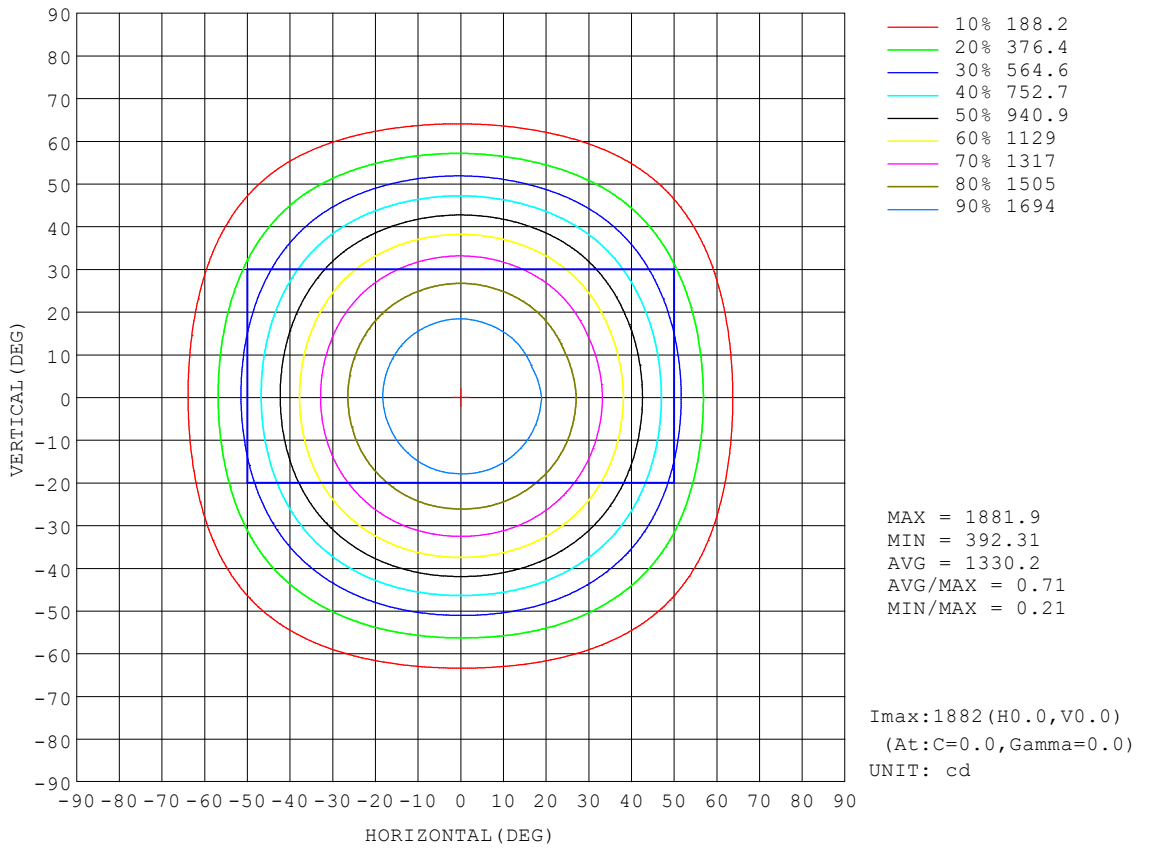
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	68	58	52	67	58	52	66	57	52	46
0.80	78	68	62	77	68	62	75	67	62	56
1.00	85	77	71	84	76	70	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:2023-06-29

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:119.58V I:0.2374A P:28.112W PF:0.9902 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3449.4x1 lm		
NAME: DL254-6-30W-M-A5C5-HO	TYPE: 30W	WEIGHT:
SPEC.: 5000K	DIM.: 0.21	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.15	Shielding Angle:



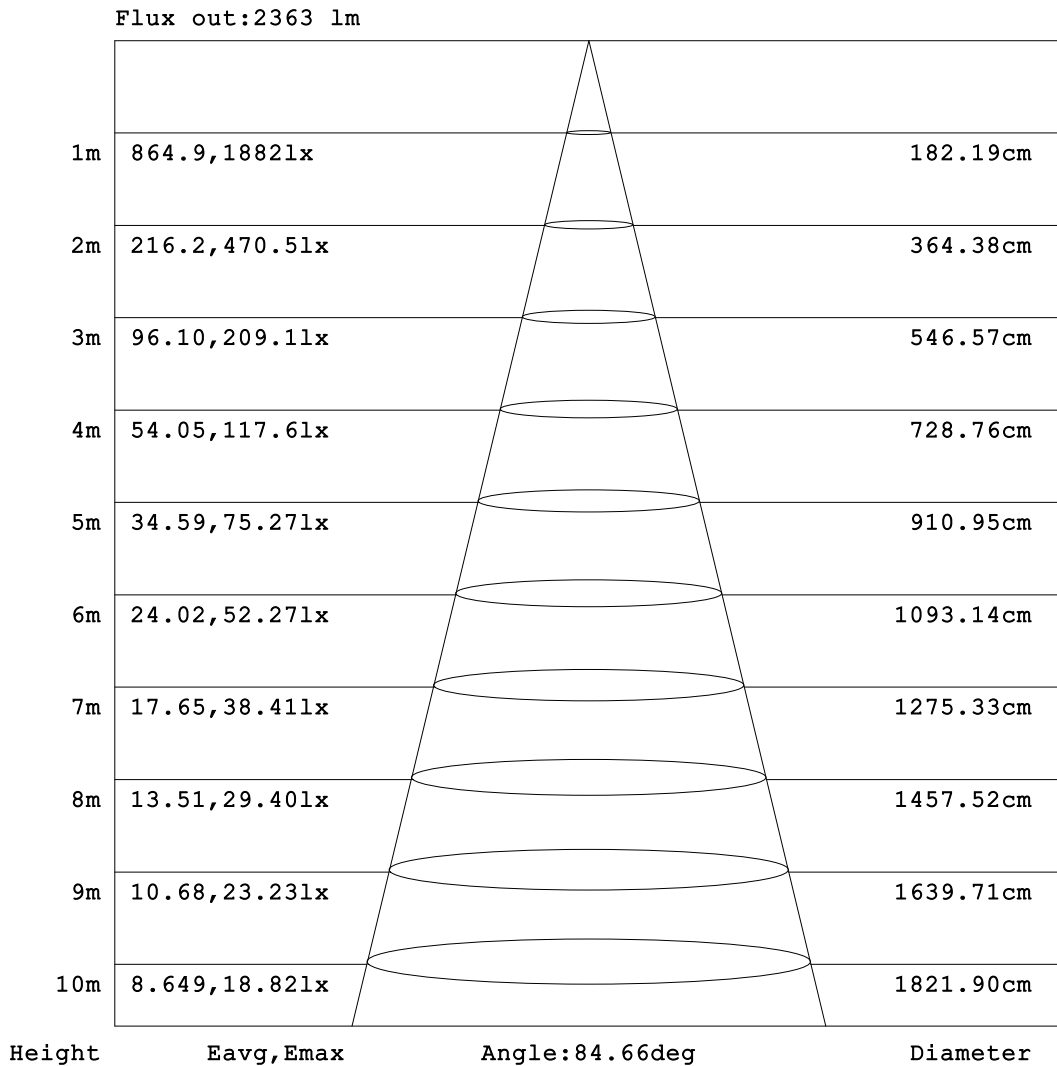
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:DAMIN  
 Test Date:2023-06-29

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:119.58V I:0.2374A P:28.112W PF:0.9902 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3449.4x1 lm		
NAME: DL254-6-30W-M-A5C5-HO	TYPE: 30W	WEIGHT:
SPEC.: 5000K	DIM.: 0.21	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.15	Shielding Angle:



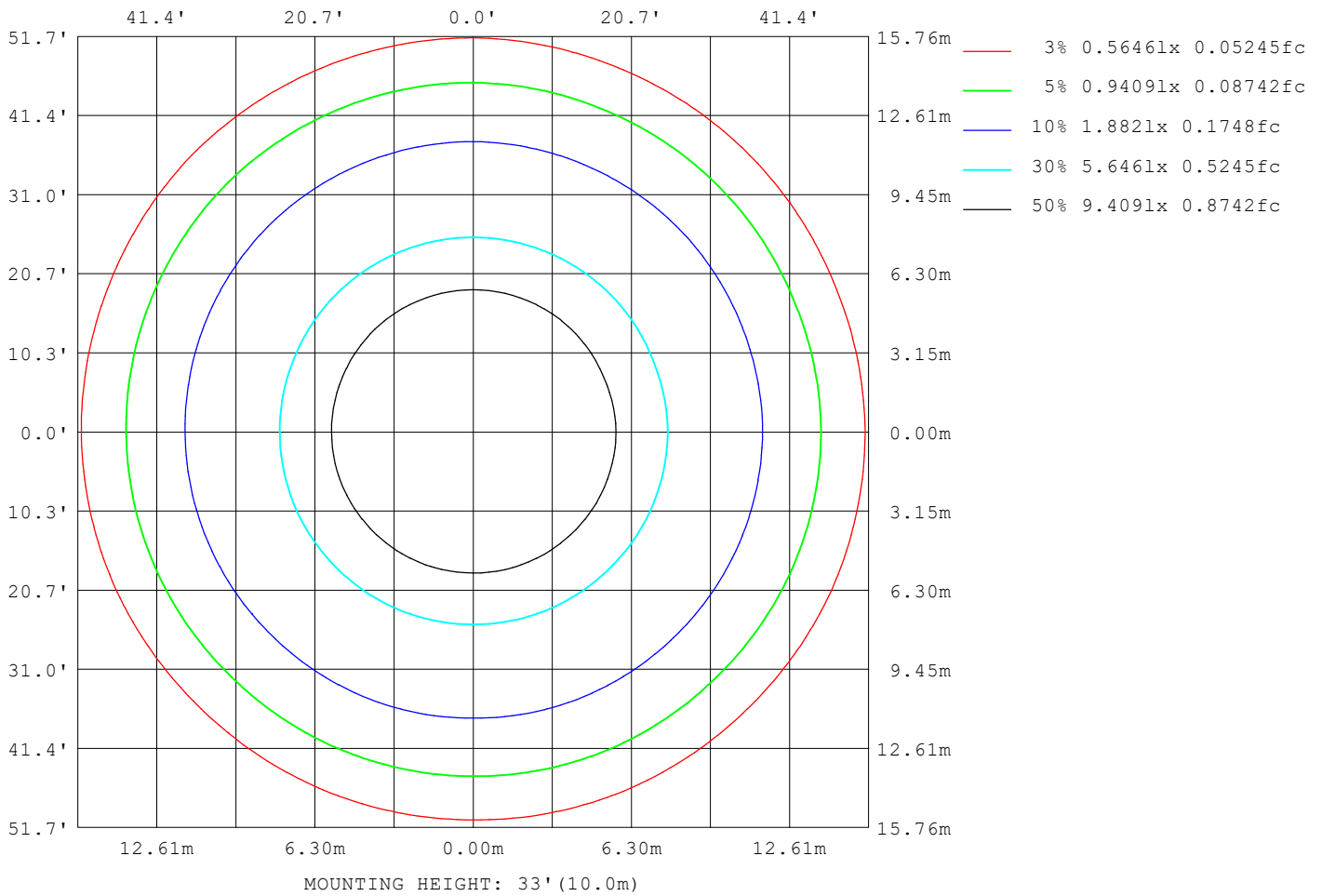
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3°C  
 Operators: DAMIN  
 Test Date: 2023-06-29

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:119.58V I:0.2374A P:28.112W PF:0.9902 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3449.4x1 lm		
NAME: DL254-6-30W-M-A5C5-HO	TYPE: 30W	WEIGHT:
SPEC.: 5000K	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:2023-06-29

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:119.58V I:0.2374A P:28.112W PF:0.9902 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3449.4x1 lm		
NAME: DL254-6-30W-M-A5C5-HO	TYPE: 30W	WEIGHT:
SPEC.: 5000K	DIM.: 0.21	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.15	Shielding Angle:

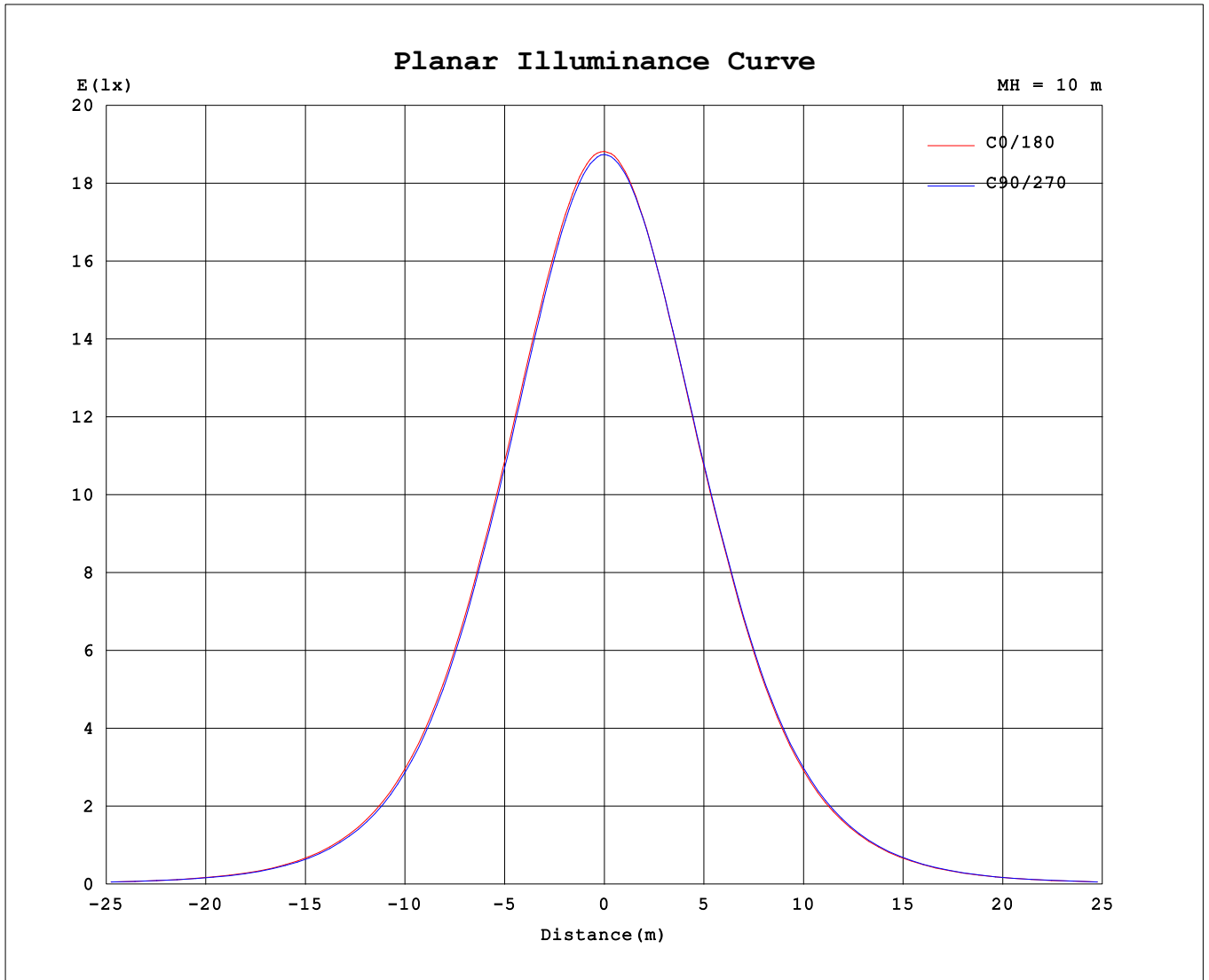
AvgL	cd/m2
L_0~180 (65) av	21753
L_0~180 (75) av	15877
L_0~180 (85) av	12471
L_90~270 (65) av	21624
L_90~270 (75) av	15952
L_90~270 (85) av	9574
L_45 (65) av	21703
L_45 (75) av	15964
L_45 (85) av	11081

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:DAMIN  
 Test Date:2023-06-29

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: 2023-06-29

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:

