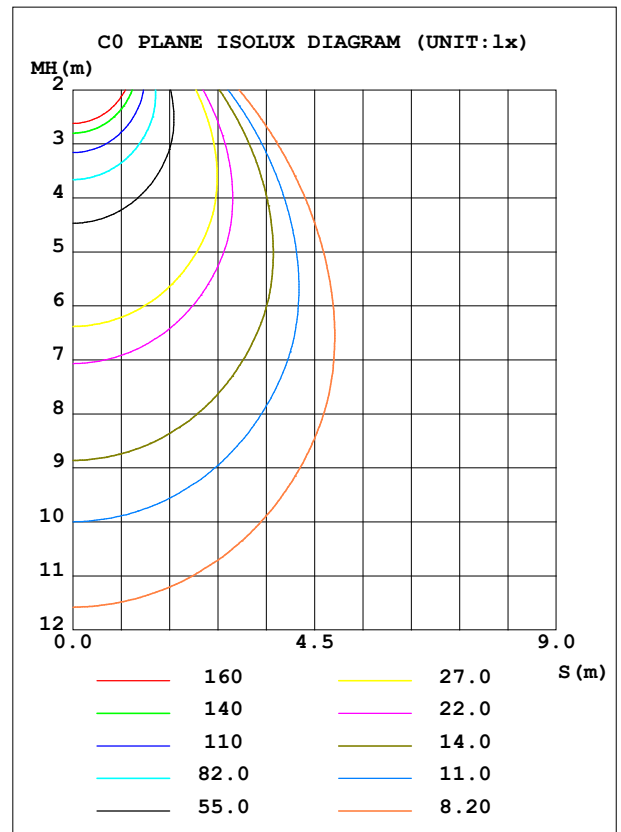
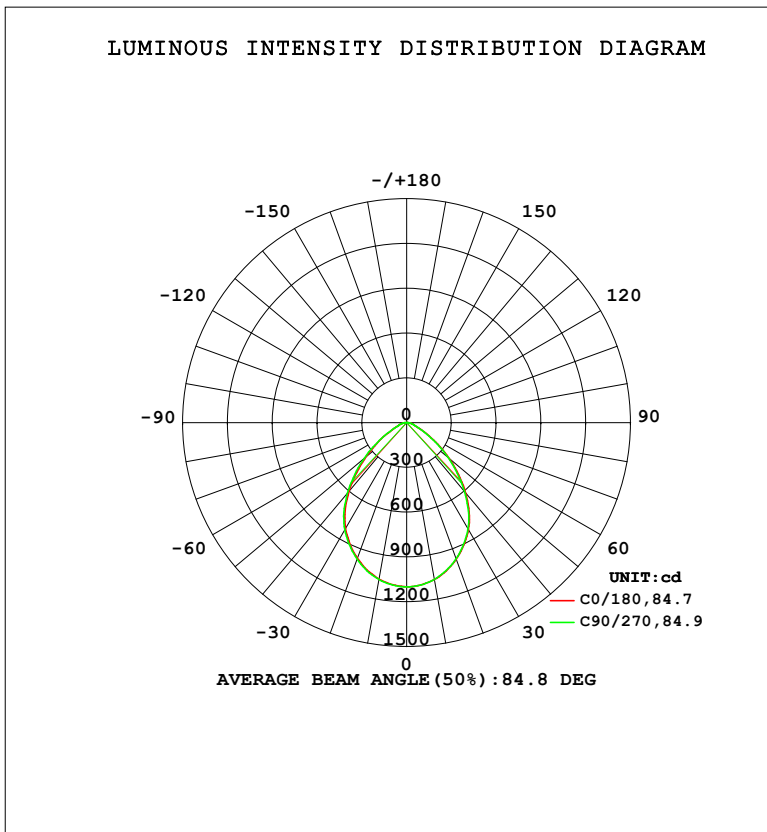


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.47V I:0.1282A P:15.019W PF:0.9804 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2017.68x1 lm		
NAME: DL254-6-30W-M-A5C5-HO	TYPE: 16W	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)	1102	S/MH (C0/180)	1.13
NOMINAL POWER (W)	16	LOR (%)	100.0	S/MH (C90/270)	1.13
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	2017.7	<input type="checkbox"/> UP, DN (C0-180)	0.0, 50.2
NOMINAL FLUX (lm)	2017.68	CIE CLASS	DIRECT	<input type="checkbox"/> UP, DN (C180-360)	0.0, 49.8
LAMPS INSIDE	1	<input type="checkbox"/> up (%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	120	<input type="checkbox"/> down (%)	100.0	CIBSE SHR MAX	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:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

°	C0	C45	C90	C135	C180	C225	C270	C315	°	□ zone	□ total	%lum, lamp
10	1064	1066	1068	1071	1068	1068	1067	1065	0- 10	103.4	103.4	5.13,5.13
20	966.5	969.6	973.3	977.2	973.5	973.7	970.7	966.5	10- 20	288.9	392.3	19.4,19.4
30	819.6	824.4	830.1	833.4	828.6	827.0	822.8	817.8	20- 30	415.5	807.8	40,40
40	601.1	608.6	616.9	620.3	616.2	611.2	604.8	599.1	30- 40	452.1	1260	62.4,62.4
50	353.0	364.1	370.7	371.1	371.5	367.7	361.5	354.0	40- 50	373.8	1634	81,81
60	157.0	160.0	164.3	164.3	161.5	164.5	160.2	155.3	50- 60	228.3	1862	92.3,92.3
70	58.31	58.34	58.66	59.07	59.29	59.07	58.97	58.79	60- 70	98.05	1960	97.1,97.1
80	26.70	26.77	27.09	27.79	27.37	24.33	27.00	28.08	70- 80	45.55	2006	99.4,99.4
90	0.5244	0.5047	0.4720	0.4785	0.8408	0.8587	0.8784	0.8849	80- 90	12.14	2018	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): 1462.5 lm

%lum = 72.5%

%lamp = 72.5%

Conical surface Flux(130deg): 1922.7 lm

%lum = 95.3%

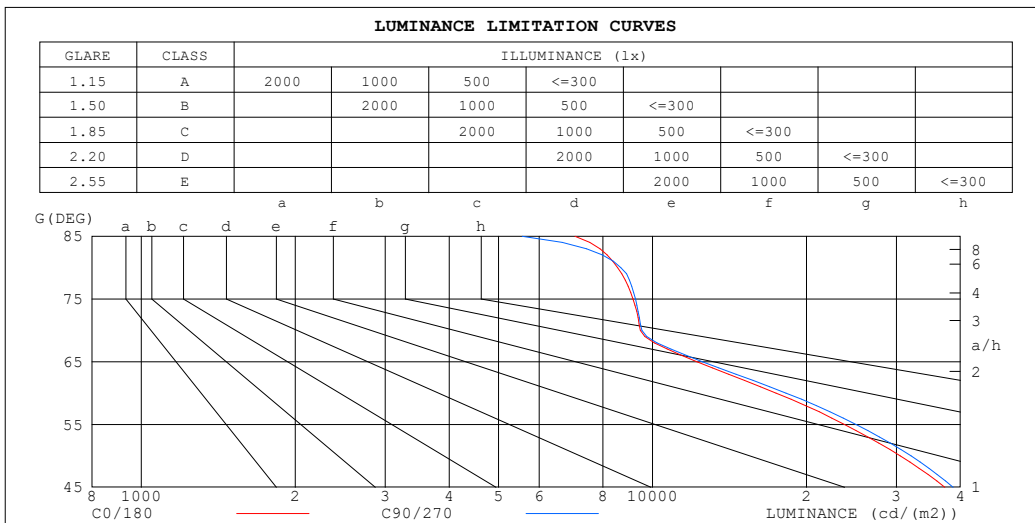
%lamp = 95.3%

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:119.47V I:0.1282A P:15.019W PF:0.9804 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2017.68x1 lm		
NAME: DL254-6-30W-M-A5C5-HO	TYPE: 16W	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	7055	5558
80	8544	8667
75	9159	9263
70	9472	9529
65	12219	12521
60	17448	18252
55	23745	25012
50	30508	32038
45	37293	38708

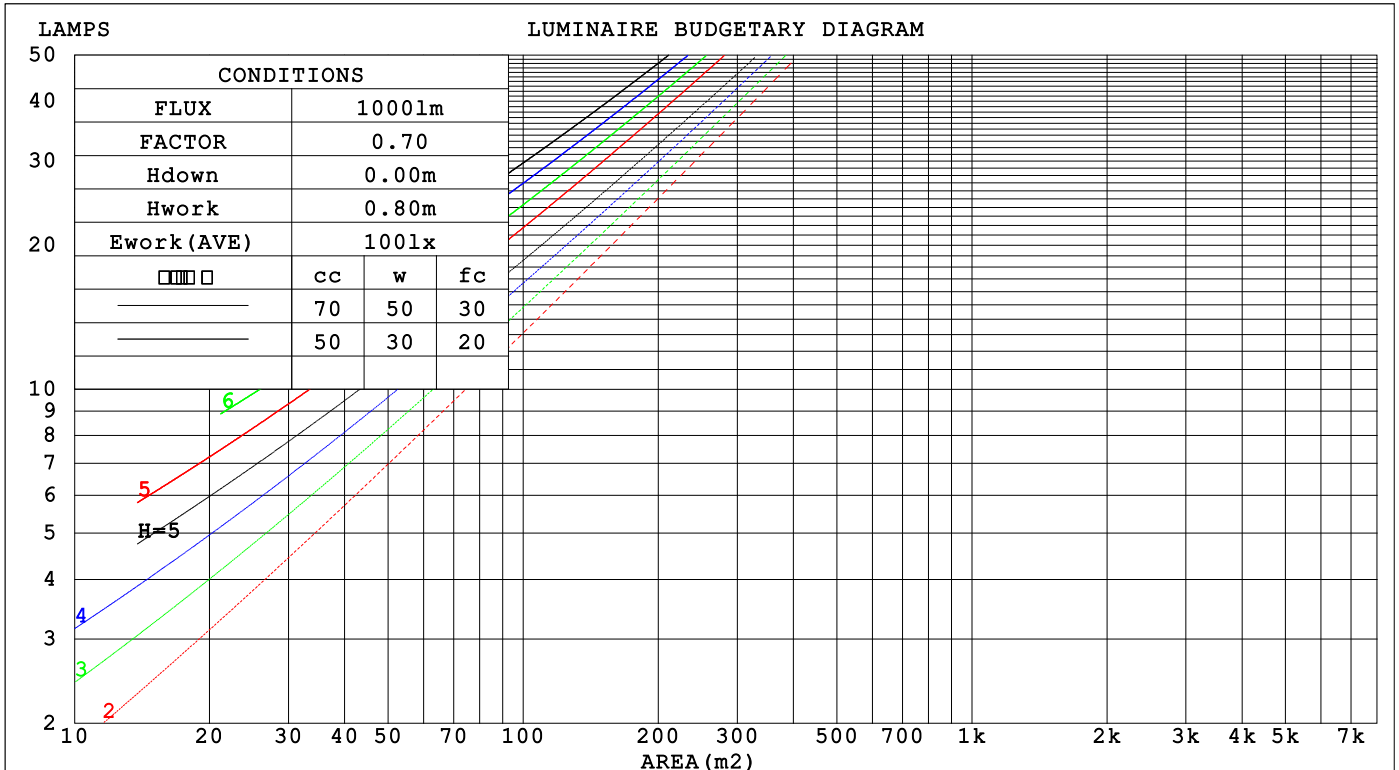
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2023-07-03

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:119.47V I:0.1282A P:15.019W PF:0.9804 Freq:60.01Hz		
UTHdi:0.00% ITHdi:0.00% KDisp:0 Lamp Flux:2017.68x1 lm		
NAME: DL254-6-30W-M-A5C5-HO	TYPE: 16W	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	.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	.56	.65	.60	.56	.54
6.0	.65	.57	.52	.64	.57	.52	.63	.56	.51	.61	.55	.51	.60	.54	.50	.48
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:119.47V I:0.1282A P:15.019W PF:0.9804 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2017.68x1 lm		
NAME: DL254-6-30W-M-A5C5-HO	TYPE: 16W	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	.242 .138 .044	.235 .134 .043	.222 .128 .041	.211 .121 .039	.200 .116 .037	
2.0	.234 .128 .039	.228 .126 .039	.217 .121 .037	.207 .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 .097 .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 .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	.126 .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:2023-07-03

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:119.47V I:0.1282A P:15.019W PF:0.9804 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2017.68x1 lm		
NAME: DL254-6-30W-M-A5C5-HO	TYPE: 16W	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	23.1	24.4	23.4	24.6	24.8	23.3	24.6	23.5	24.8	24.9
3H	23.3	24.5	23.6	24.7	25.0	23.5	24.7	23.8	24.9	25.1
4H	23.4	24.6	23.7	24.8	25.0	23.6	24.7	23.9	24.9	25.2
6H	23.5	24.6	23.8	24.8	25.1	23.7	24.7	24.0	25.0	25.2
8H	23.6	24.6	23.9	24.8	25.1	23.7	24.7	24.0	25.0	25.3
12H	23.6	24.5	23.9	24.8	25.1	23.7	24.7	24.0	24.9	25.2
4H 2H	23.2	24.3	23.5	24.6	24.8	23.3	24.5	23.6	24.7	24.9
3H	23.5	24.5	23.9	24.8	25.1	23.7	24.6	24.0	24.9	25.2
4H	23.7	24.6	24.1	24.9	25.2	23.9	24.7	24.2	25.0	25.4
6H	23.9	24.7	24.3	25.0	25.4	24.0	24.8	24.4	25.2	25.5
8H	24.0	24.7	24.4	25.1	25.4	24.1	24.8	24.5	25.2	25.6
12H	24.0	24.7	24.4	25.0	25.4	24.1	24.8	24.5	25.1	25.5
8H 4H	23.8	24.5	24.2	24.8	25.2	23.9	24.6	24.3	24.9	25.3
6H	24.0	24.6	24.5	25.0	25.4	24.1	24.7	24.6	25.1	25.6
8H	24.1	24.7	24.6	25.1	25.5	24.3	24.8	24.7	25.2	25.6
12H	24.2	24.7	24.7	25.1	25.6	24.3	24.8	24.8	25.2	25.7
12H 4H	23.7	24.4	24.1	24.8	25.2	23.8	24.5	24.3	24.9	25.3
6H	24.0	24.6	24.5	25.0	25.4	24.2	24.7	24.6	25.1	25.5
8H	24.2	24.6	24.6	25.1	25.5	24.3	24.7	24.8	25.2	25.6

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

CIE Pub.117, 2018 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 2.4)
 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:119.47V I:0.1282A P:15.019W PF:0.9804 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2017.68x1 lm		
NAME: DL254-6-30W-M-A5C5-HO	TYPE: 16W	WEIGHT:
SPEC.: 5000K	DIM.: 0.21	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.15	Shielding Angle:

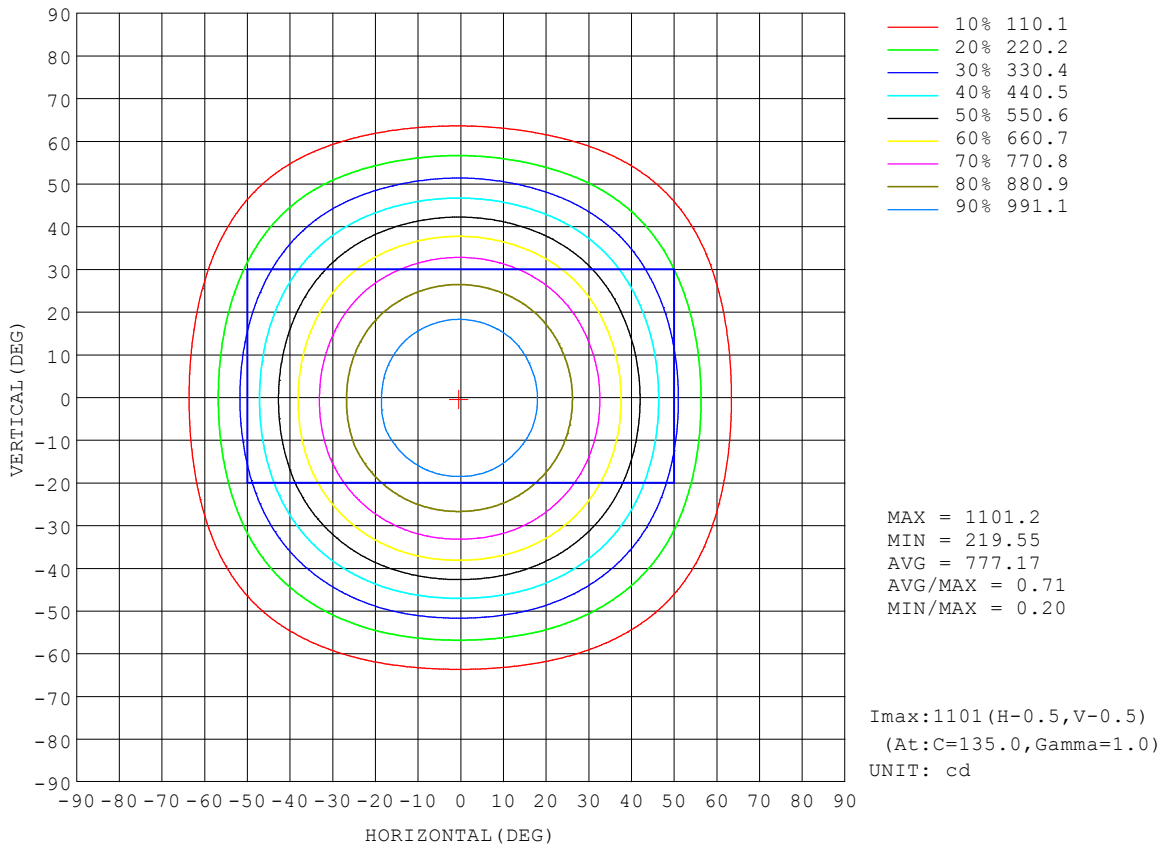
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	68	58	52	67	58	52	66	57	52	46
0.80	78	68	62	77	68	62	75	67	62	56
1.00	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:119.47V I:0.1282A P:15.019W PF:0.9804 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2017.68x1 lm		
NAME: DL254-6-30W-M-A5C5-HO	TYPE: 16W	WEIGHT:
SPEC.: 5000K	DIM.: 0.21	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.15	Shielding Angle:

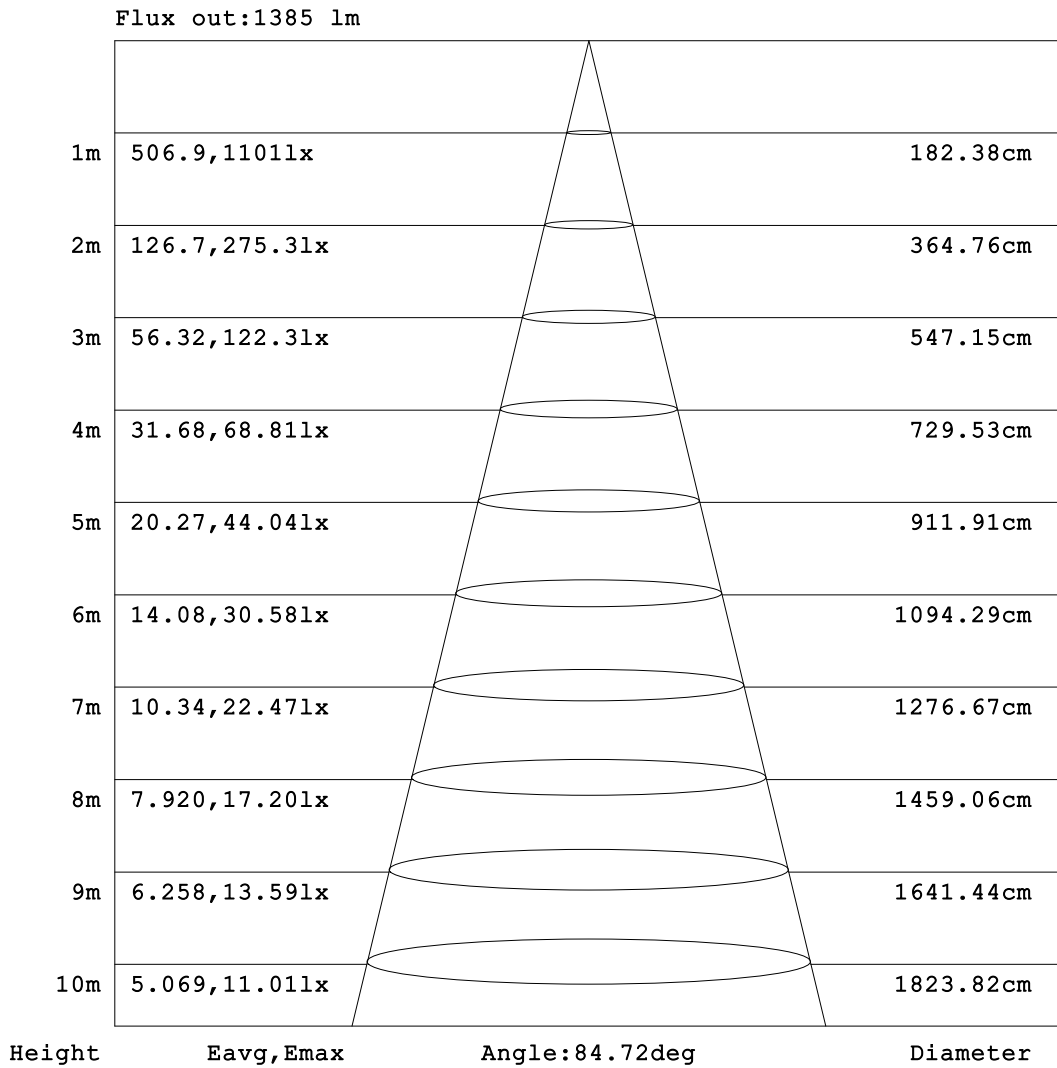


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2023-07-03

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:119.47V I:0.1282A P:15.019W PF:0.9804 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2017.68x1 lm		
NAME: DL254-6-30W-M-A5C5-HO	TYPE: 16W	WEIGHT:
SPEC.: 5000K	DIM.: 0.21	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.15	Shielding Angle:



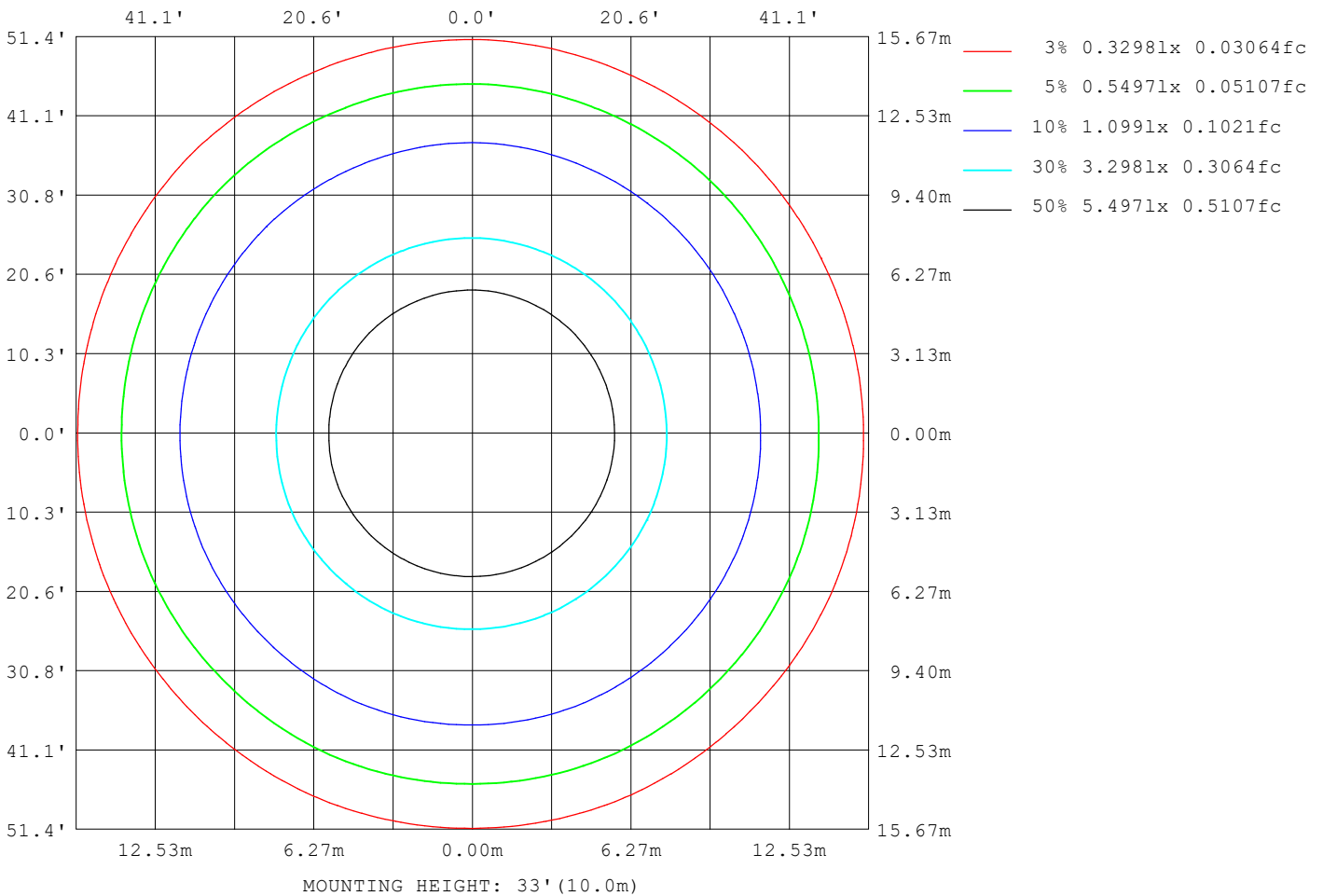
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

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:119.47V I:0.1282A P:15.019W PF:0.9804 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2017.68x1 lm		
NAME: DL254-6-30W-M-A5C5-HO	TYPE: 16W	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:2023-07-03

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:119.47V I:0.1282A P:15.019W PF:0.9804 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2017.68x1 lm		
NAME: DL254-6-30W-M-A5C5-HO	TYPE: 16W	WEIGHT:
SPEC.: 5000K	DIM.: 0.21	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.15	Shielding Angle:

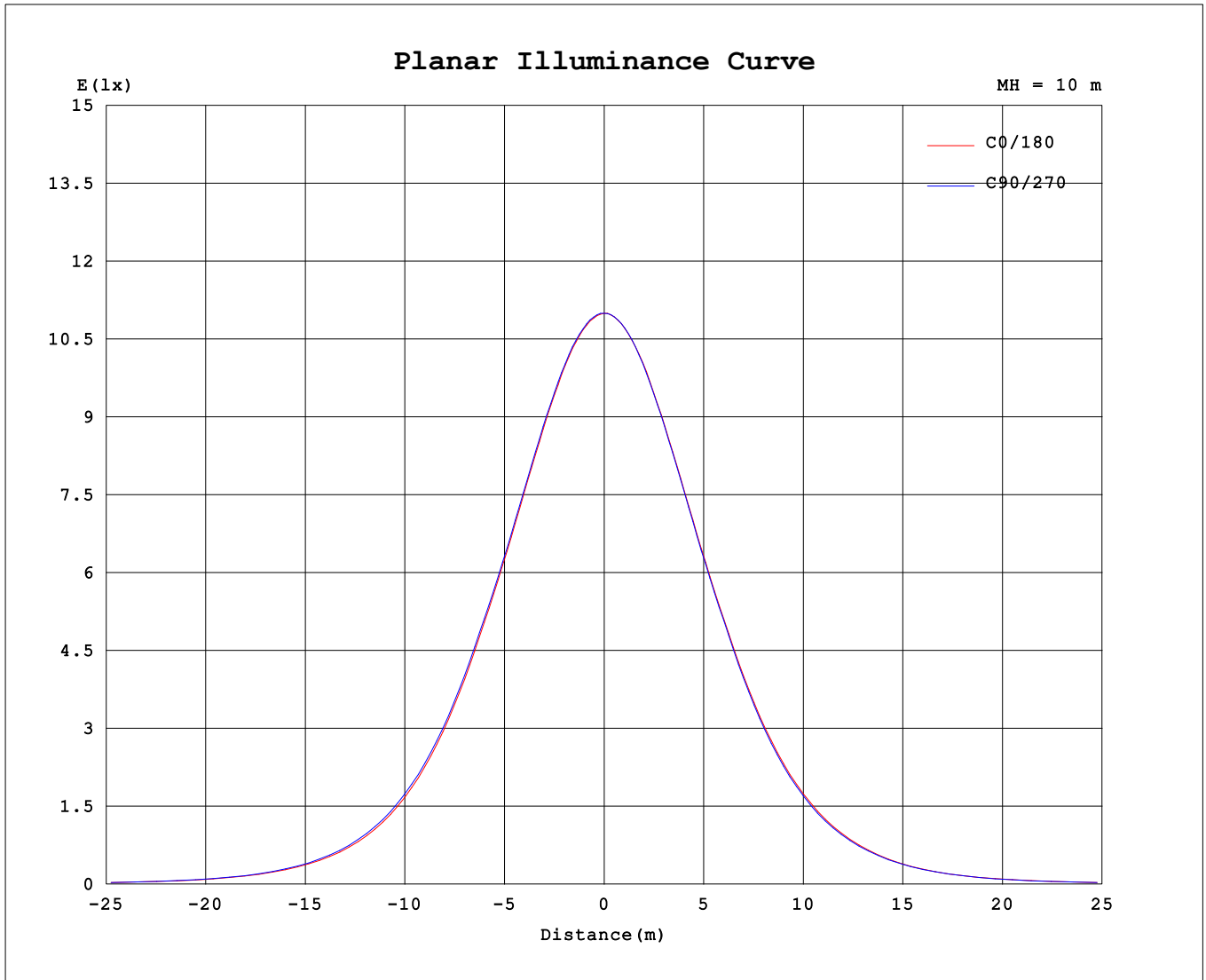
AvgL	cd/m2
L_0~180 (65) av	12354
L_0~180 (75) av	9235
L_0~180 (85) av	7254
L_90~270 (65) av	12433
L_90~270 (75) av	9303
L_90~270 (85) av	5601
L_45 (65) av	12411
L_45 (75) av	9312
L_45 (85) av	6176

Standard: GB/T 29293-2012

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

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:

