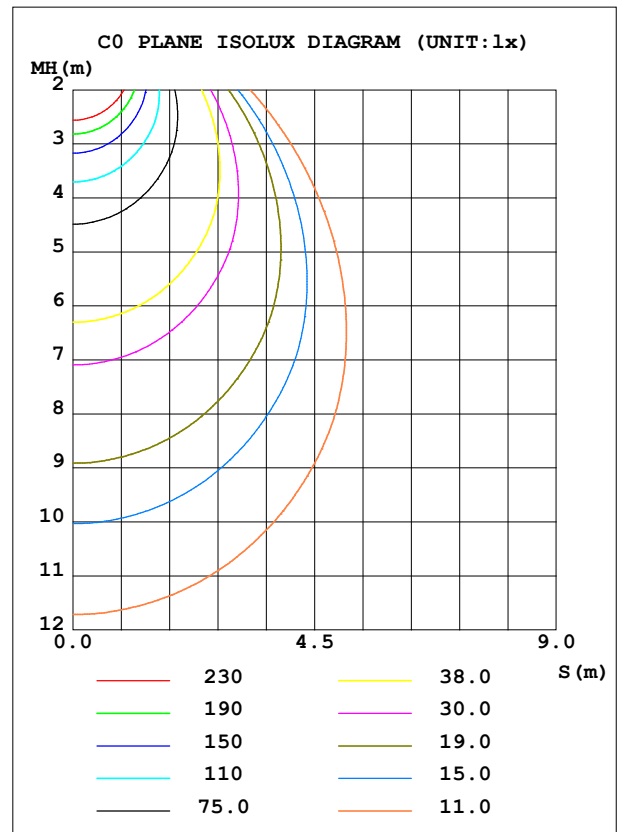
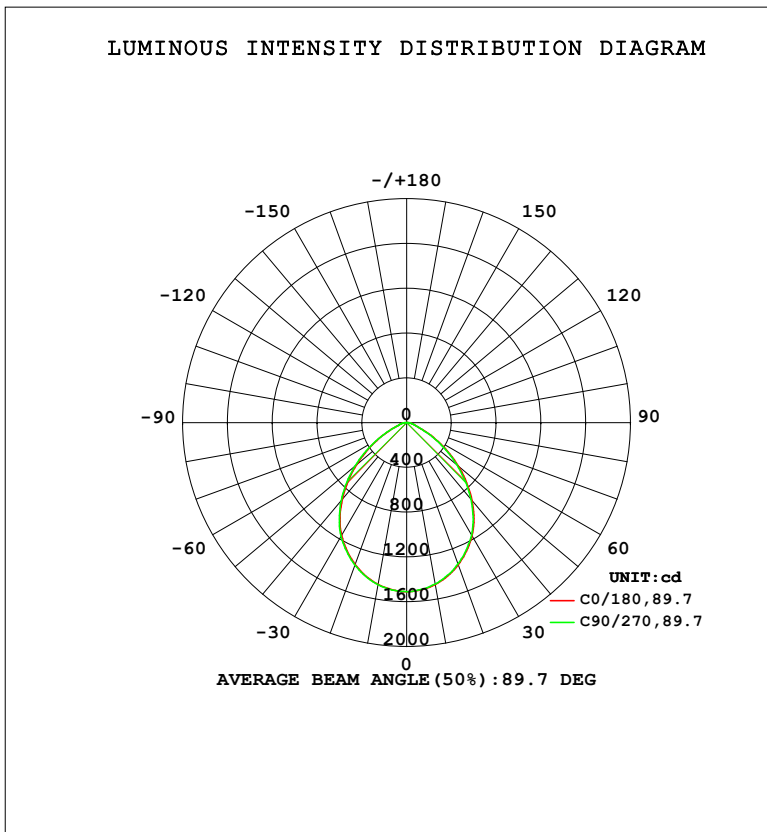


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.44V I:0.2390A P:28.236W PF:0.9891 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3007.05x1 lm		
NAME: DL254-10-40W-M-A5C5-HO	TYPE: 30W	WEIGHT:
SPEC.: 2700K	DIM.: 0.295	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.22	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	DL254-10-40W-M-A5C5-HO	Imax (cd)	1510	S/MH (C0/180)	1.16
NOMINAL POWER (W)	30	LOR (%)	100.0	S/MH (C90/270)	1.15
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	3007.0	<input type="checkbox"/> UP, DN (C0-180)	0.0,50.2
NOMINAL FLUX (lm)	3007.05	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:2023-07-04

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	1468	1469	1471	1471	1469	1468	1465	1462	0- 10	142.1	142.1	4.72,4.72
20	1347	1351	1354	1358	1351	1348	1343	1341	10- 20	399.2	541.2	18,18
30	1164	1167	1174	1177	1170	1166	1161	1156	20- 30	581.8	1123	37.3,37.3
40	896.4	900.2	910.7	918.4	909.1	901.9	895.1	890.6	30- 40	650.7	1774	59,59
50	582.7	592.0	601.0	610.0	603.4	593.7	585.6	580.0	40- 50	577.2	2351	78.2,78.2
60	284.6	290.0	295.4	299.5	303.5	298.1	288.6	281.1	50- 60	391.8	2743	91.2,91.2
70	90.44	90.86	92.58	94.51	96.68	97.62	94.58	91.96	60- 70	176.3	2919	97.1,97.1
80	39.78	39.97	40.69	41.71	42.89	42.92	42.25	41.44	70- 80	67.79	2987	99.3,99.3
90	0.8522	0.8587	0.8259	0.8522	1.492	1.481	1.482	1.481	80- 90	20.21	3007	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): 2079.7 lm

%lum = 69.2%

%lamp = 69.2%

Conical surface Flux(130deg): 2854 lm

%lum = 94.9%

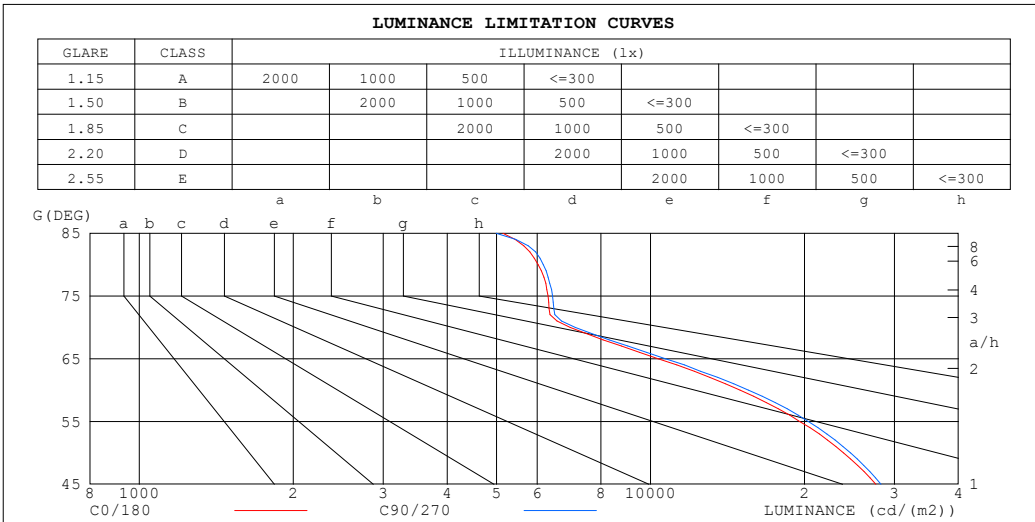
%lamp = 94.9%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2023-07-04

□ 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:119.44V I:0.2390A P:28.236W PF:0.9891 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3007.05x1 lm		
NAME: DL254-10-40W-M-A5C5-HO	TYPE: 30W	WEIGHT:
SPEC.: 2700K	DIM.: 0.295	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.22	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	5146	4988
80	6029	6167
75	6300	6431
70	6959	7124
65	10352	10694
60	14976	15547
55	19591	20369
50	23857	24606
45	27604	28240

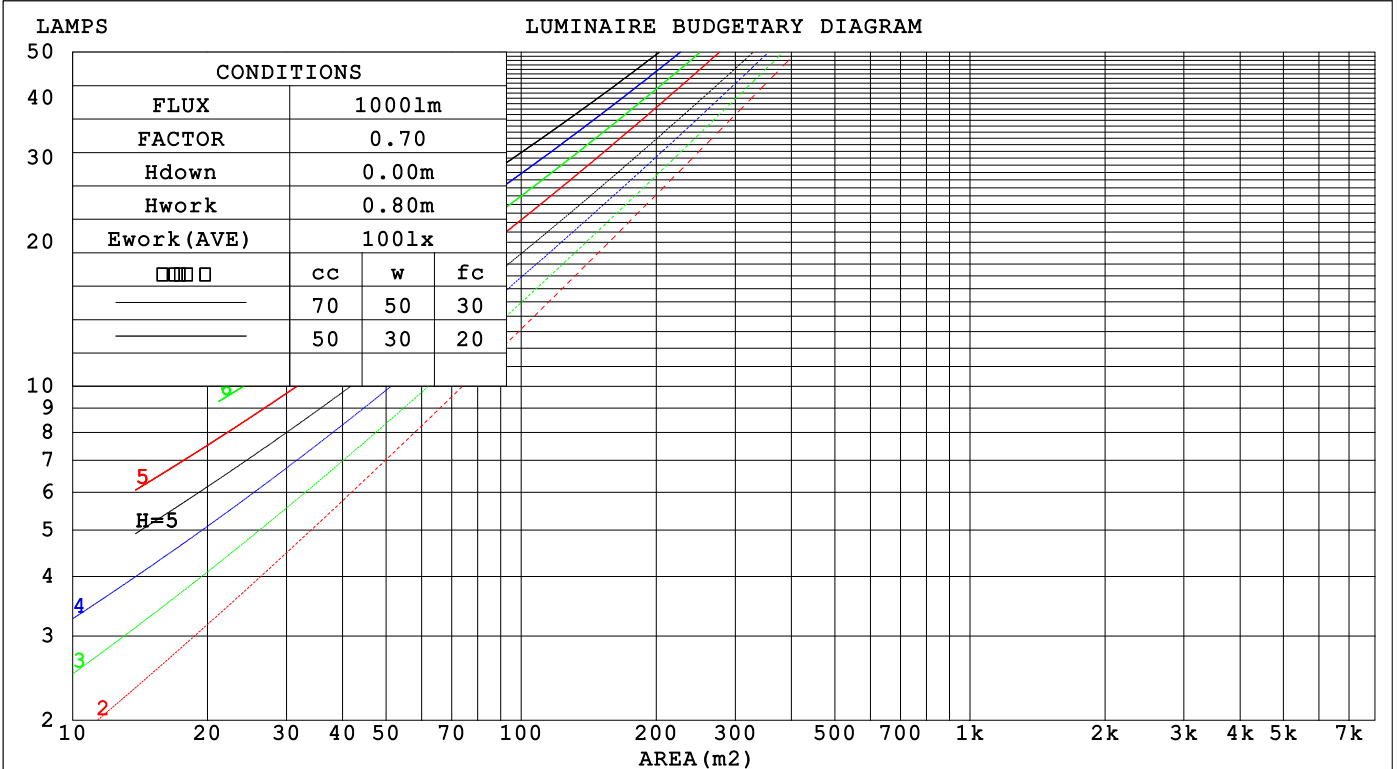
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2023-07-04

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:119.44V I:0.2390A P:28.236W PF:0.9891 Freq:60.01Hz		
UTHdi:0.00% ITHdi:0.00% KDisp:0 Lamp Flux:3007.05x1 lm		
NAME: DL254-10-40W-M-A5C5-HO	TYPE: 30W	WEIGHT:
SPEC.: 2700K	DIM.: 0.295	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.22	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	1.00	1.05	1.02	.99	1.01	.98	.96	.97	.95	.93	.93	.92	.90	.88
2.0	.96	.90	.85	.94	.89	.84	.90	.86	.82	.87	.84	.81	.84	.81	.79	.77
3.0	.86	.79	.73	.84	.78	.73	.82	.76	.71	.79	.74	.70	.76	.73	.69	.67
4.0	.77	.70	.64	.76	.69	.63	.74	.68	.63	.71	.66	.62	.69	.65	.61	.59
5.0	.70	.62	.56	.69	.61	.56	.67	.60	.55	.65	.59	.55	.63	.58	.54	.52
6.0	.64	.56	.50	.63	.55	.50	.61	.54	.49	.59	.54	.49	.58	.53	.49	.47
7.0	.58	.50	.45	.57	.50	.45	.56	.49	.44	.55	.49	.44	.53	.48	.44	.42
8.0	.54	.46	.40	.53	.45	.40	.52	.45	.40	.50	.44	.40	.49	.44	.40	.38
9.0	.49	.42	.37	.49	.42	.37	.48	.41	.36	.47	.41	.36	.46	.40	.36	.34
10.0	.46	.38	.34	.45	.38	.33	.44	.38	.33	.43	.37	.33	.43	.37	.33	.31



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2023-07-04

□ 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:119.44V I:0.2390A P:28.236W PF:0.9891 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3007.05x1 lm		
NAME: DL254-10-40W-M-A5C5-HO	TYPE: 30W	WEIGHT:
SPEC.: 2700K	DIM.: 0.295	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.22	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	.249 .142 .045	.242 .138 .044	.229 .132 .042	.217 .125 .040	.206 .120 .039	
2.0	.241 .132 .040	.235 .129 .040	.224 .124 .039	.213 .120 .037	.204 .115 .036	
3.0	.228 .122 .036	.223 .119 .036	.213 .116 .035	.204 .112 .034	.196 .108 .034	
4.0	.215 .112 .033	.210 .110 .033	.202 .107 .032	.194 .104 .031	.186 .101 .031	
5.0	.202 .103 .030	.198 .102 .030	.191 .099 .029	.183 .097 .029	.177 .094 .028	
6.0	.190 .095 .027	.187 .094 .027	.180 .092 .027	.173 .090 .026	.167 .088 .026	
7.0	.179 .089 .025	.176 .088 .025	.170 .086 .025	.164 .084 .024	.159 .082 .024	
8.0	.169 .083 .023	.166 .082 .023	.161 .080 .023	.156 .079 .023	.151 .077 .023	
9.0	.160 .077 .022	.157 .077 .022	.152 .075 .021	.148 .074 .021	.143 .073 .021	
10.0	.151 .073 .020	.149 .072 .020	.145 .071 .020	.140 .070 .020	.136 .069 .020	

<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 .139	.151 .134 .120	.103 .093 .083	.059 .054 .048	.019 .017 .016	
2.0	.165 .132 .104	.142 .114 .090	.097 .079 .063	.056 .046 .037	.018 .015 .012	
3.0	.156 .114 .080	.134 .098 .070	.092 .068 .049	.053 .040 .029	.017 .013 .009	
4.0	.148 .100 .063	.127 .087 .055	.088 .060 .039	.051 .035 .023	.016 .012 .008	
5.0	.141 .089 .051	.121 .077 .045	.083 .054 .032	.048 .032 .019	.016 .010 .006	
6.0	.134 .081 .042	.115 .070 .037	.080 .049 .026	.046 .029 .016	.015 .009 .005	
7.0	.128 .074 .036	.110 .064 .031	.076 .045 .022	.044 .026 .013	.014 .009 .004	
8.0	.122 .068 .031	.105 .059 .027	.073 .041 .019	.042 .024 .011	.014 .008 .004	
9.0	.117 .063 .027	.100 .055 .023	.070 .038 .017	.041 .023 .010	.013 .007 .003	
10.0	.111 .059 .024	.096 .051 .021	.067 .036 .015	.039 .021 .009	.013 .007 .003	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2023-07-04

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:119.44V I:0.2390A P:28.236W PF:0.9891 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3007.05x1 lm		
NAME: DL254-10-40W-M-A5C5-HO	TYPE: 30W	WEIGHT:
SPEC.: 2700K	DIM.: 0.295	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.22	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	22.6	23.9	22.8	24.1	24.3	22.7	24.0	22.9	24.2	24.4
3H	22.8	24.0	23.1	24.2	24.5	22.9	24.1	23.2	24.4	24.6
4H	22.9	24.0	23.2	24.3	24.5	23.0	24.1	23.3	24.4	24.6
6H	22.9	24.0	23.2	24.3	24.5	23.0	24.1	23.4	24.4	24.6
8H	22.9	24.0	23.3	24.2	24.5	23.0	24.1	23.4	24.4	24.6
12H	22.9	23.9	23.3	24.2	24.5	23.0	24.0	23.4	24.3	24.6
4H 2H	22.7	23.9	23.0	24.1	24.4	22.8	24.0	23.1	24.2	24.5
3H	23.0	24.0	23.4	24.3	24.6	23.1	24.1	23.5	24.4	24.7
4H	23.2	24.1	23.5	24.4	24.7	23.3	24.2	23.6	24.5	24.8
6H	23.3	24.1	23.7	24.4	24.8	23.4	24.2	23.8	24.5	24.9
8H	23.3	24.1	23.8	24.4	24.8	23.5	24.2	23.9	24.6	24.9
12H	23.4	24.0	23.8	24.4	24.8	23.5	24.2	23.9	24.5	24.9
8H 4H	23.2	23.9	23.6	24.3	24.6	23.3	24.0	23.7	24.4	24.7
6H	23.4	24.0	23.8	24.4	24.8	23.5	24.1	23.9	24.5	24.9
8H	23.5	24.0	23.9	24.4	24.9	23.6	24.1	24.0	24.5	25.0
12H	23.5	24.0	24.0	24.4	24.9	23.6	24.1	24.1	24.5	25.0
12H 4H	23.1	23.8	23.6	24.2	24.6	23.2	23.9	23.7	24.3	24.7
6H	23.4	23.9	23.8	24.3	24.8	23.5	24.0	23.9	24.4	24.9
8H	23.5	24.0	24.0	24.4	24.9	23.6	24.1	24.1	24.5	25.0

Variations with the observer position at spacings(CIE Pub.117):		
S = 1.0H	+ 0.7 / - 0.8	+ 0.6 / - 0.8
1.5H	+ 0.3 / - 0.4	+ 0.3 / - 0.4
2.0H	+ 1.3 / - 1.7	+ 1.3 / - 1.7

CIE Pub.117, 3007 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 3.8)
 Area: 0.038 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:2023-07-04	Remarks:

UTILIZATION FACTORS TABLE

Test:U:119.44V I:0.2390A P:28.236W PF:0.9891 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3007.05x1 lm		
NAME: DL254-10-40W-M-A5C5-HO	TYPE: 30W	WEIGHT:
SPEC.: 2700K	DIM.: 0.295	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.22	Shielding Angle:

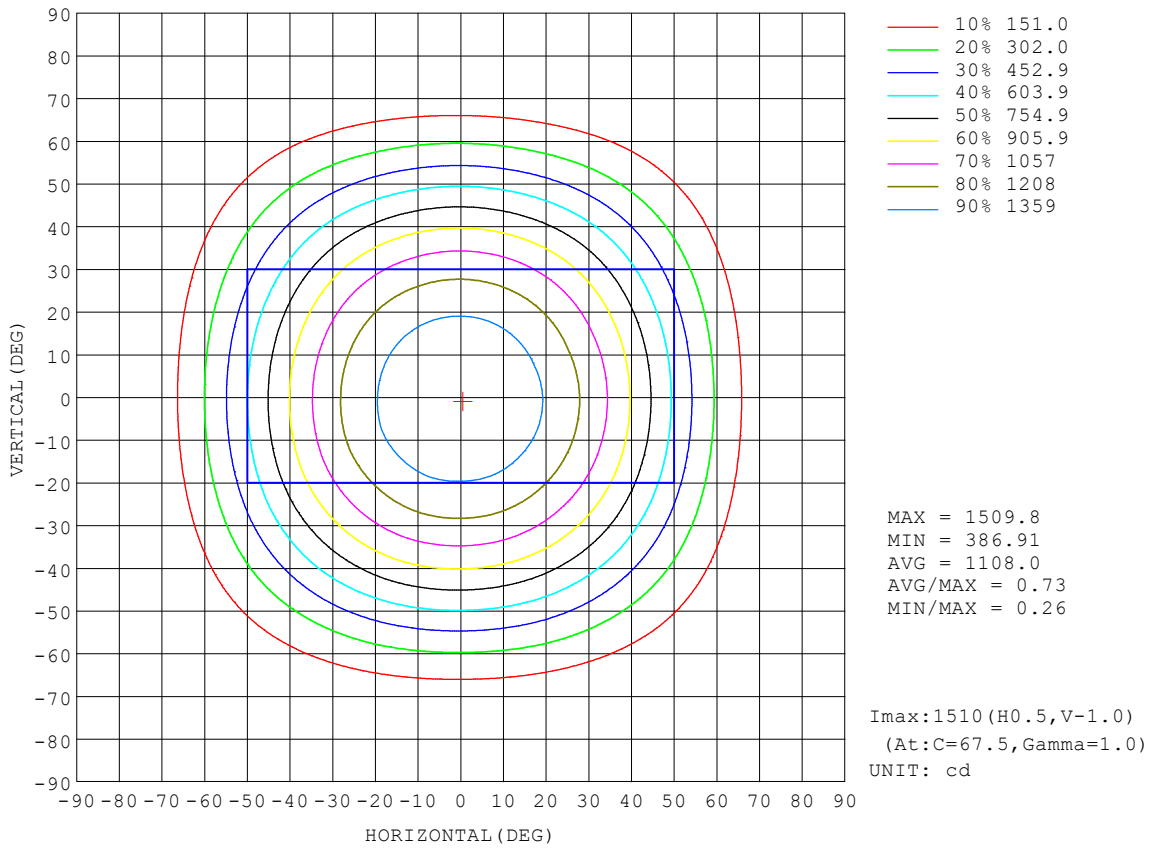
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	65	55	49	65	55	49	64	55	49	43
0.80	76	66	59	75	65	59	73	65	59	53
1.00	84	75	69	83	74	68	81	75	68	62
1.25	90	82	76	89	81	76	87	80	75	69
1.50	95	87	81	93	86	81	91	84	80	73
2.00	101	94	89	99	93	88	96	91	86	80
2.50	103	97	93	102	96	92	98	93	90	82
3.00	106	101	96	104	99	95	100	96	93	86
4.00	109	105	101	107	103	100	103	100	97	89
5.00	111	107	104	109	105	102	104	102	99	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:2023-07-04

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:119.44V I:0.2390A P:28.236W PF:0.9891 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3007.05x1 lm		
NAME: DL254-10-40W-M-A5C5-HO	TYPE: 30W	WEIGHT:
SPEC.: 2700K	DIM.: 0.295	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.22	Shielding Angle:

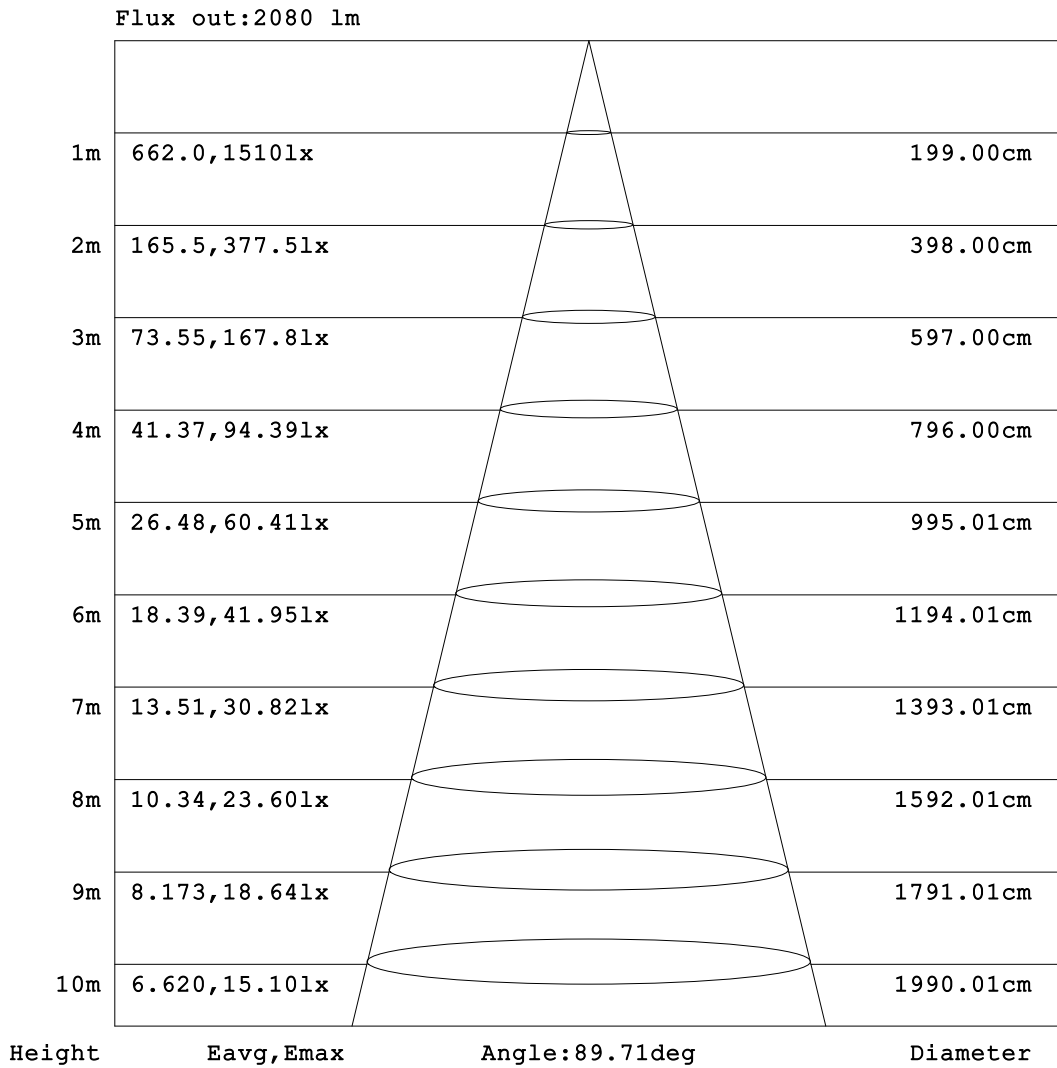


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2023-07-04

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:119.44V I:0.2390A P:28.236W PF:0.9891 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3007.05x1 lm		
NAME: DL254-10-40W-M-A5C5-HO	TYPE: 30W	WEIGHT:
SPEC.: 2700K	DIM.: 0.295	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.22	Shielding Angle:



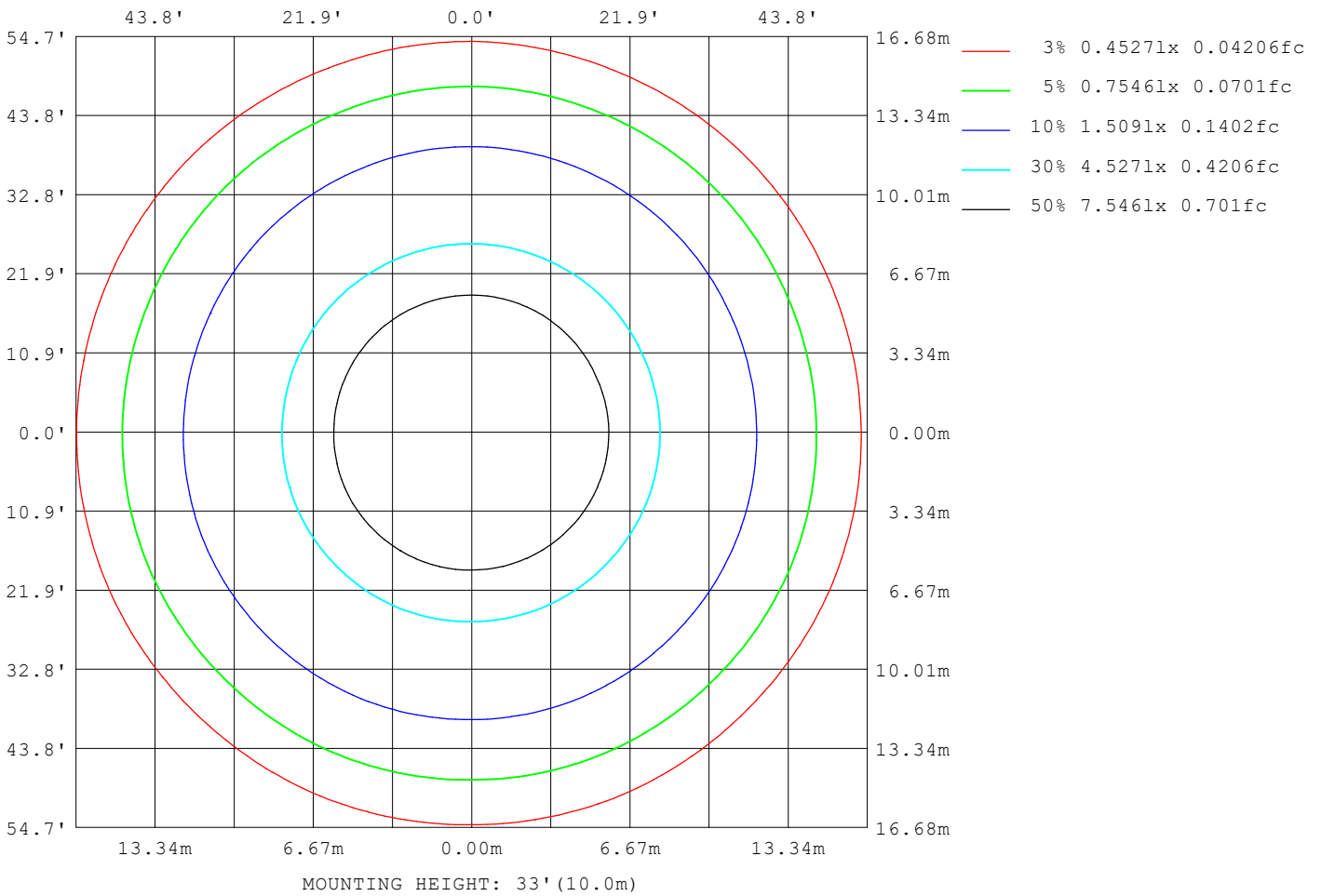
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: DAMIN
 Test Date: 2023-07-04

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:119.44V I:0.2390A P:28.236W PF:0.9891 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3007.05x1 lm		
NAME: DL254-10-40W-M-A5C5-HO	TYPE: 30W	WEIGHT:
SPEC.: 2700K	DIM.: 0.295	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.22	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2023-07-04

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:119.44V I:0.2390A P:28.236W PF:0.9891 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3007.05x1 lm		
NAME: DL254-10-40W-M-A5C5-HO	TYPE: 30W	WEIGHT:
SPEC.: 2700K	DIM.: 0.295	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.22	Shielding Angle:

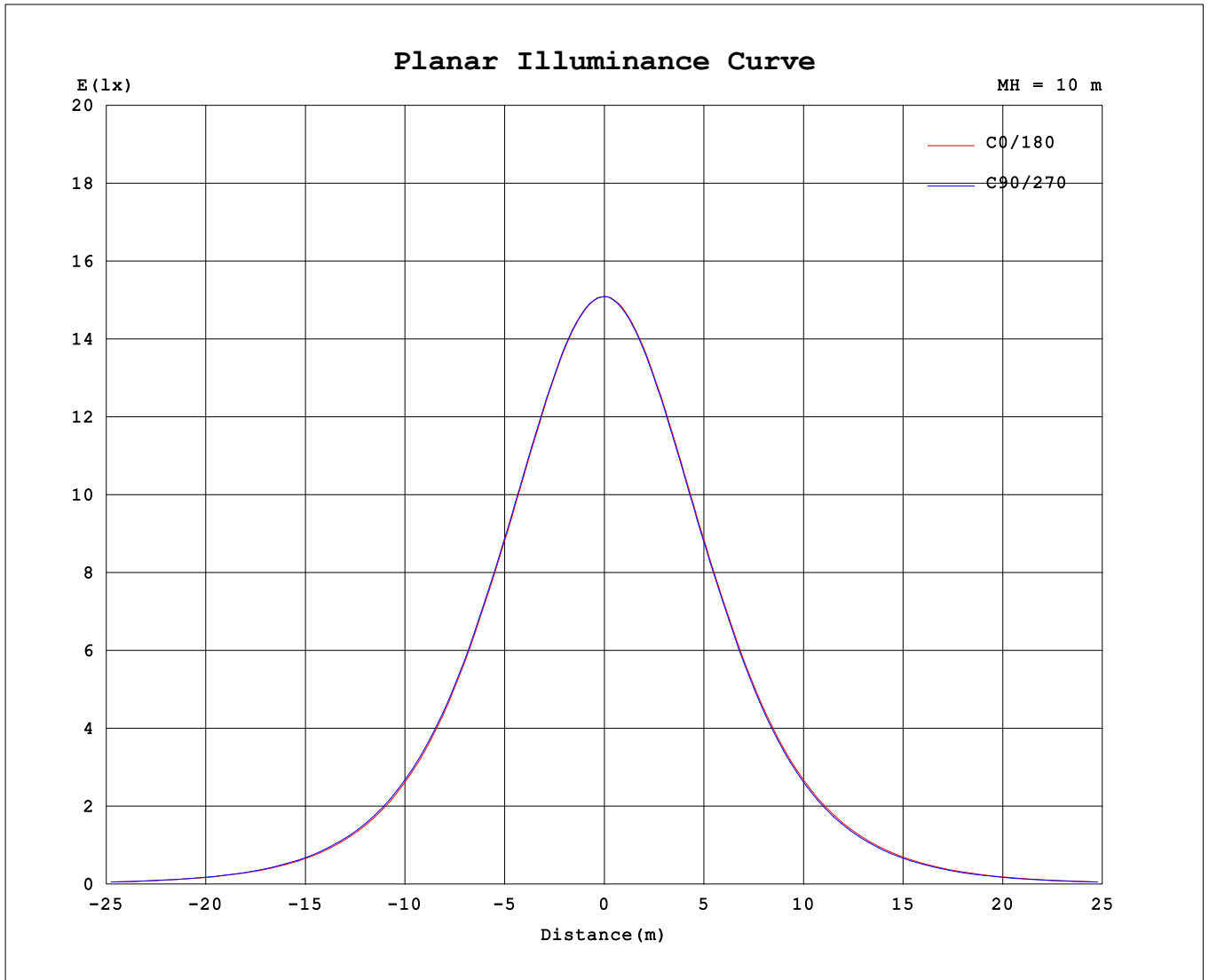
AvgL	cd/m2
L_0~180 (65) av	10711
L_0~180 (75) av	6460
L_0~180 (85) av	5584
L_90~270 (65) av	10627
L_90~270 (75) av	6482
L_90~270 (85) av	5180
L_45 (65) av	10682
L_45 (75) av	6473
L_45 (85) av	5493

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:DAMIN
 Test Date:2023-07-04

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: 2023-07-04

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:

