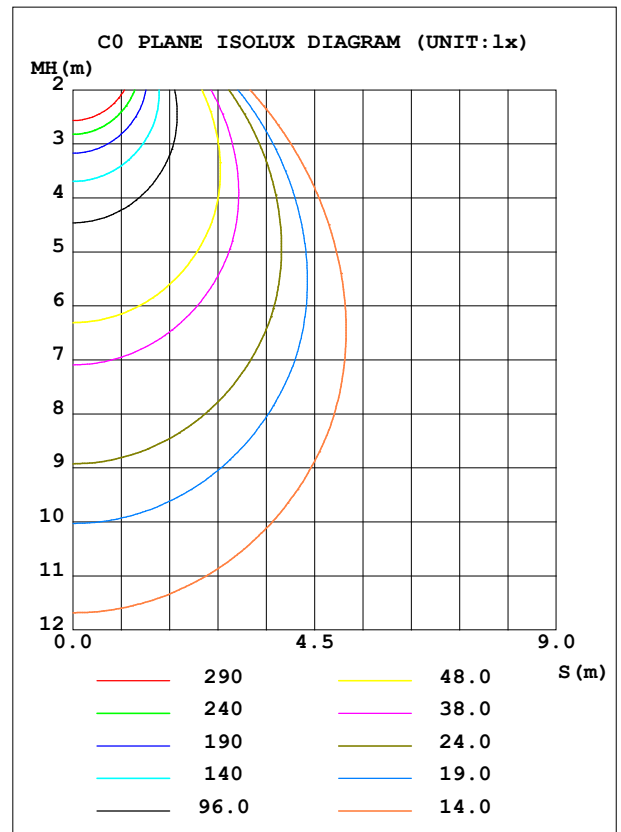
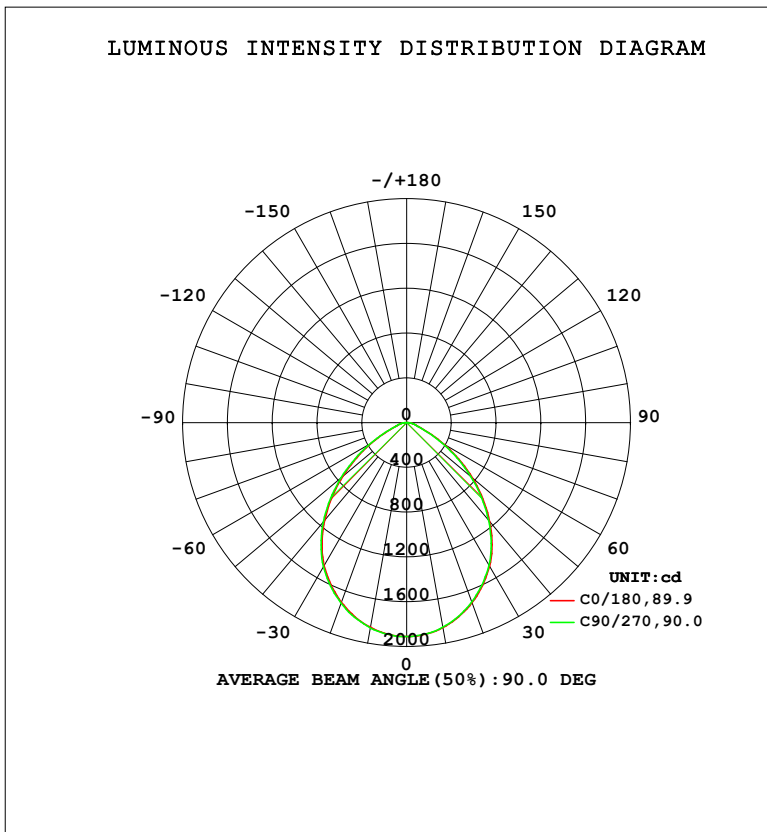


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.45V I:0.2822A P:33.428W PF:0.9916 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3815.27x1 lm		
NAME: DL254-10-40W-M-A5C5-HO	TYPE: 35W	WEIGHT:
SPEC.: 3500K	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)	1913	S/MH (C0/180)	1.16
NOMINAL POWER (W)	35	LOR (%)	100.0	S/MH (C90/270)	1.16
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	3815.3	<input type="checkbox"/> UP, DN (C0-180)	0.0, 50.2
NOMINAL FLUX (lm)	3815.27	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	1856	1859	1863	1863	1859	1859	1856	1852	0- 10	179.9	179.9	4.72,4.72
20	1707	1710	1715	1718	1711	1710	1704	1700	10- 20	505.5	685.4	18,18
30	1476	1479	1487	1493	1483	1477	1472	1467	20- 30	737.2	1423	37.3,37.3
40	1139	1145	1159	1167	1155	1148	1140	1133	30- 40	825.8	2248	58.9,58.9
50	742.7	752.6	764.9	776.0	768.0	756.2	746.8	739.4	40- 50	734.7	2983	78.2,78.2
60	359.5	366.2	373.2	378.8	383.4	376.4	365.1	355.5	50- 60	497.7	3481	91.2,91.2
70	115.0	115.4	117.5	120.0	122.7	123.8	119.9	116.7	60- 70	222.4	3703	97.1,97.1
80	50.67	50.96	51.84	53.10	54.59	54.65	53.79	52.80	70- 80	86.30	3790	99.3,99.3
90	1.095	1.108	1.055	1.082	1.933	1.906	1.901	1.901	80- 90	25.76	3815	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): 2637.6 lm

%lum = 69.1%

%lamp = 69.1%

Conical surface Flux(130deg): 3621 lm

%lum = 94.9%

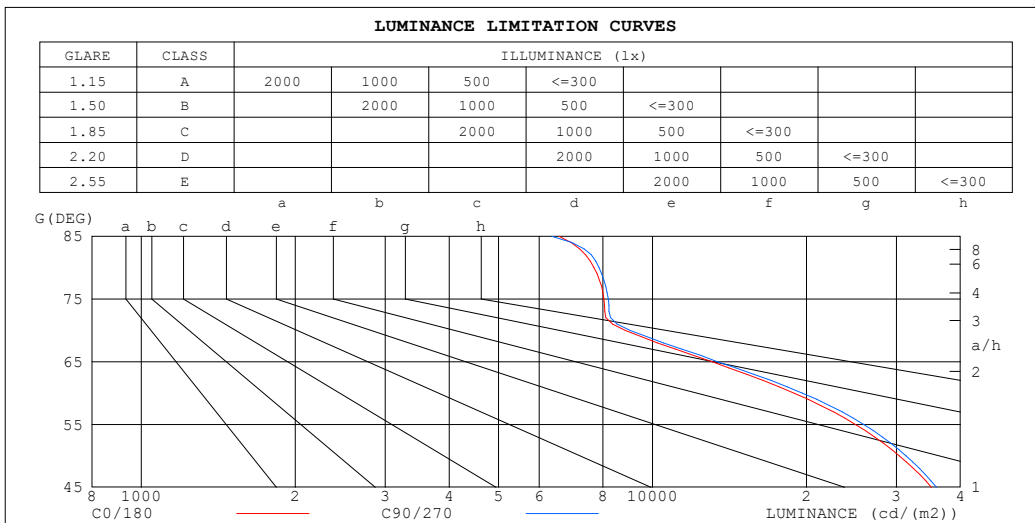
%lamp = 94.9%

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:119.45V I:0.2822A P:33.428W PF:0.9916 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3815.27x1 lm		
NAME: DL254-10-40W-M-A5C5-HO	TYPE: 35W	WEIGHT:
SPEC.: 3500K	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	6566	6350
80	7679	7857
75	8032	8194
70	8848	9043
65	13094	13401
60	18921	19644
55	24942	25890
50	30406	31313
45	35095	35910

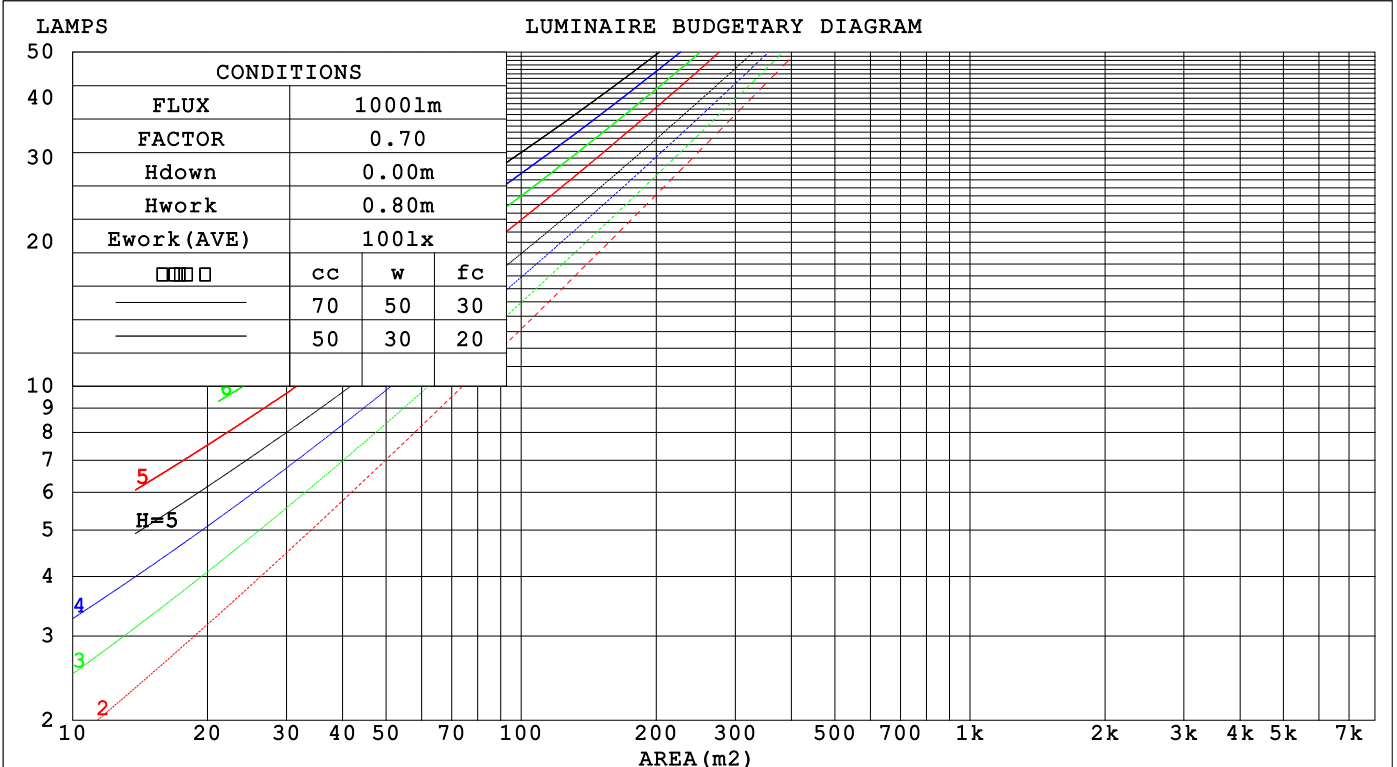
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: DAMIN
 Test Date: 2023-07-04

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:119.45V I:0.2822A P:33.428W PF:0.9916 Freq:60.01Hz		
UTHdi:0.00% ITHdi:0.00% KDisp:0 Lamp Flux:3815.27x1 lm		
NAME: DL254-10-40W-M-A5C5-HO	TYPE: 35W	WEIGHT:
SPEC.: 3500K	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	.81	.76	.71	.79	.74	.70	.76	.72	.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	.53	.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:119.45V I:0.2822A P:33.428W PF:0.9916 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3815.27x1 lm		
NAME: DL254-10-40W-M-A5C5-HO	TYPE: 35W	WEIGHT:
SPEC.: 3500K	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 .041	.235 .129 .040	.224 .124 .039	.213 .120 .037	.204 .115 .036	
3.0	.228 .122 .036	.223 .120 .036	.213 .116 .035	.204 .112 .034	.196 .108 .034	
4.0	.215 .112 .033	.211 .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 .027	.167 .088 .026	
7.0	.179 .089 .025	.176 .088 .025	.170 .086 .025	.164 .084 .024	.159 .083 .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:119.45V I:0.2822A P:33.428W PF:0.9916 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3815.27x1 lm		
NAME: DL254-10-40W-M-A5C5-HO	TYPE: 35W	WEIGHT:
SPEC.: 3500K	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	23.4	24.7	23.7	24.9	25.1	23.5	24.8	23.8	25.0	25.2
3H	23.6	24.8	23.9	25.1	25.3	23.7	25.0	24.0	25.2	25.4
4H	23.7	24.8	24.0	25.1	25.3	23.8	25.0	24.1	25.2	25.4
6H	23.7	24.8	24.1	25.1	25.4	23.9	24.9	24.2	25.2	25.5
8H	23.8	24.8	24.1	25.1	25.4	23.9	24.9	24.2	25.2	25.5
12H	23.8	24.8	24.1	25.0	25.3	23.9	24.9	24.2	25.2	25.4
4H 2H	23.5	24.7	23.8	24.9	25.2	23.6	24.8	23.9	25.0	25.3
3H	23.9	24.9	24.2	25.1	25.4	24.0	25.0	24.3	25.2	25.5
4H	24.0	24.9	24.3	25.2	25.5	24.1	25.0	24.4	25.3	25.6
6H	24.1	24.9	24.5	25.3	25.6	24.2	25.0	24.6	25.4	25.7
8H	24.2	24.9	24.6	25.3	25.7	24.3	25.0	24.7	25.4	25.8
12H	24.2	24.9	24.6	25.3	25.7	24.3	25.0	24.7	25.4	25.8
8H 4H	24.0	24.7	24.4	25.1	25.5	24.1	24.8	24.5	25.2	25.6
6H	24.2	24.8	24.6	25.2	25.6	24.3	24.9	24.7	25.3	25.7
8H	24.3	24.8	24.8	25.3	25.7	24.4	24.9	24.9	25.4	25.8
12H	24.4	24.8	24.8	25.3	25.8	24.5	24.9	24.9	25.4	25.8
12H 4H	24.0	24.6	24.4	25.0	25.4	24.1	24.7	24.5	25.1	25.5
6H	24.2	24.7	24.7	25.2	25.6	24.3	24.8	24.8	25.3	25.7
8H	24.3	24.8	24.8	25.2	25.7	24.4	24.9	24.9	25.3	25.8

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 / - 1.8

CIE Pub.117, 3815 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 4.7)
 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:119.45V I:0.2822A P:33.428W PF:0.9916 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3815.27x1 lm		
NAME: DL254-10-40W-M-A5C5-HO	TYPE: 35W	WEIGHT:
SPEC.: 3500K	DIM.: 0.295	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.22	Shielding Angle:

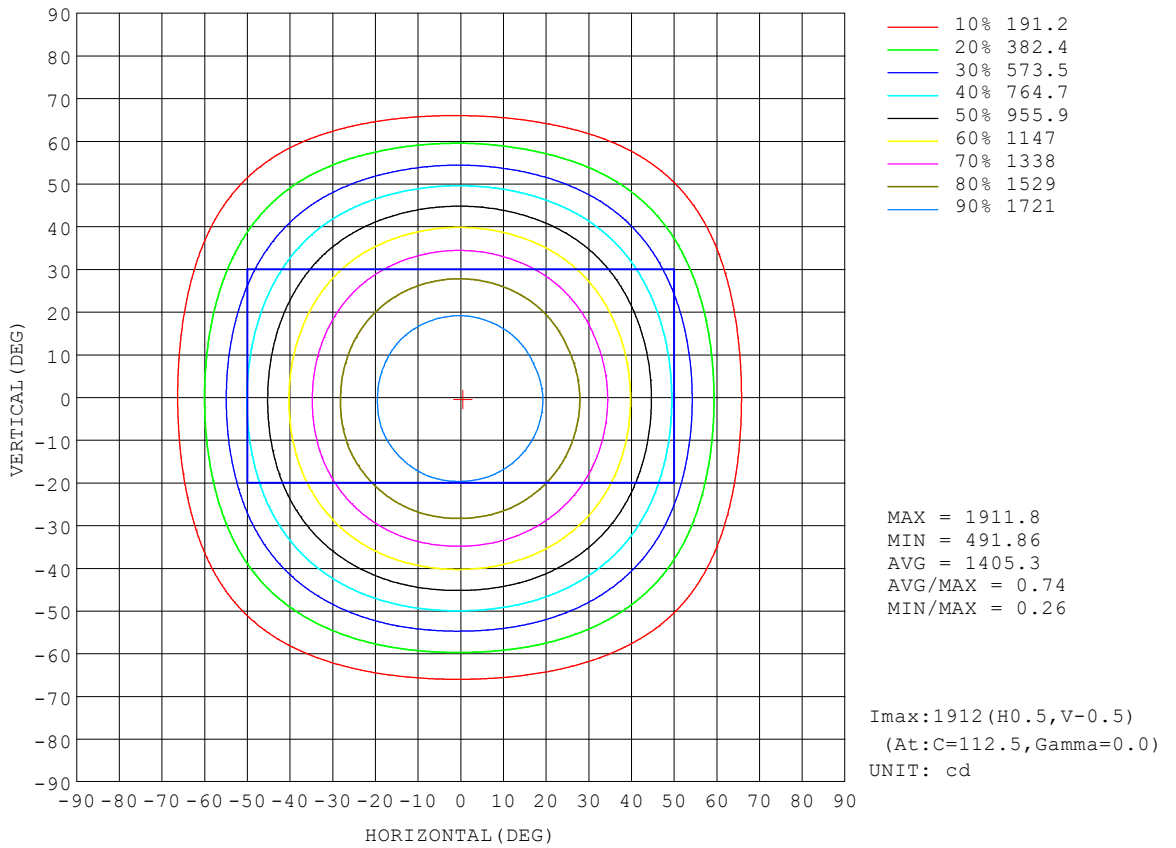
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) k(RI) x RCR = 5									
k = 0.60	65	55	49	65	55	49	64	55	49	43
0.80	76	66	59	75	65	59	73	65	59	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:119.45V I:0.2822A P:33.428W PF:0.9916 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3815.27x1 lm		
NAME: DL254-10-40W-M-A5C5-HO	TYPE: 35W	WEIGHT:
SPEC.: 3500K	DIM.: 0.295	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.22	Shielding Angle:



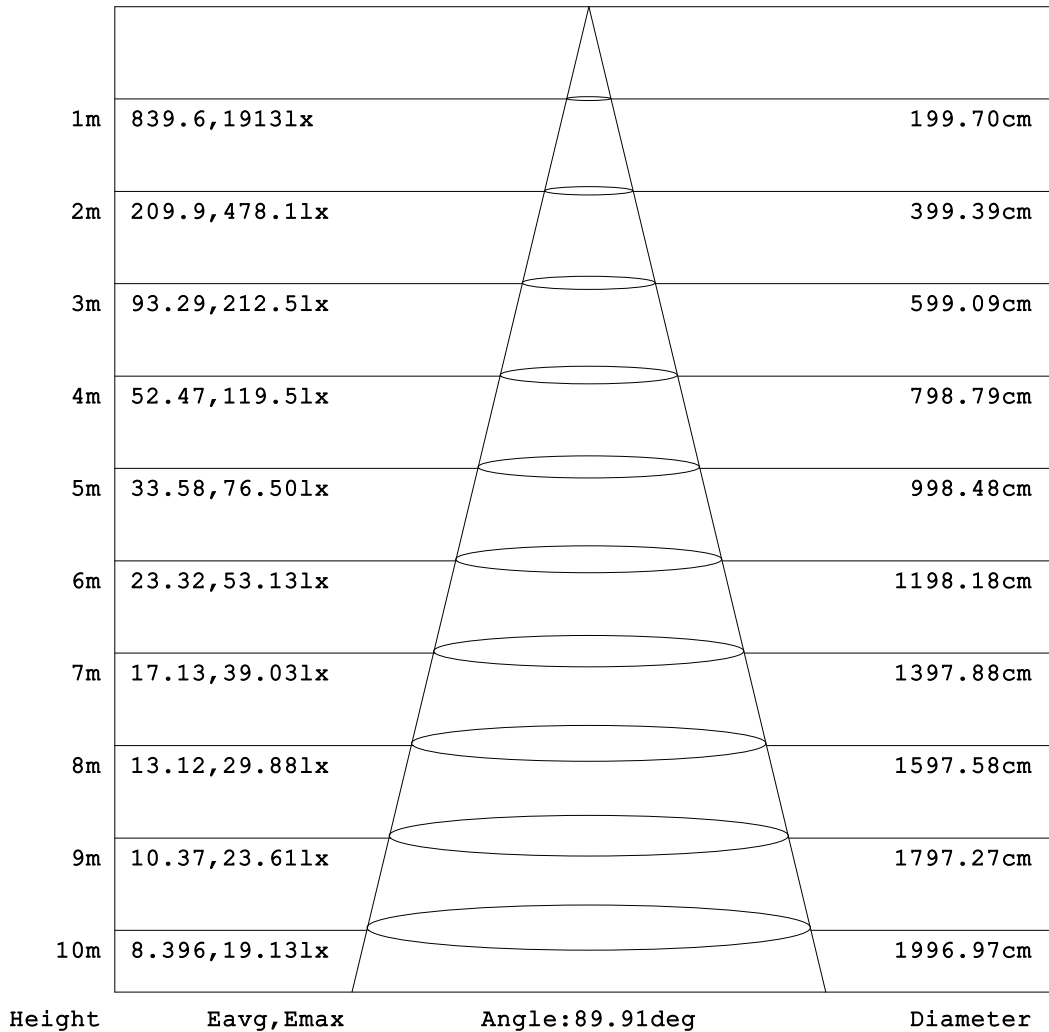
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2023-07-04

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:119.45V I:0.2822A P:33.428W PF:0.9916 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3815.27x1 lm		
NAME: DL254-10-40W-M-A5C5-HO	TYPE: 35W	WEIGHT:
SPEC.: 3500K	DIM.: 0.295	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.22	Shielding Angle:

Flux out:2638 lm



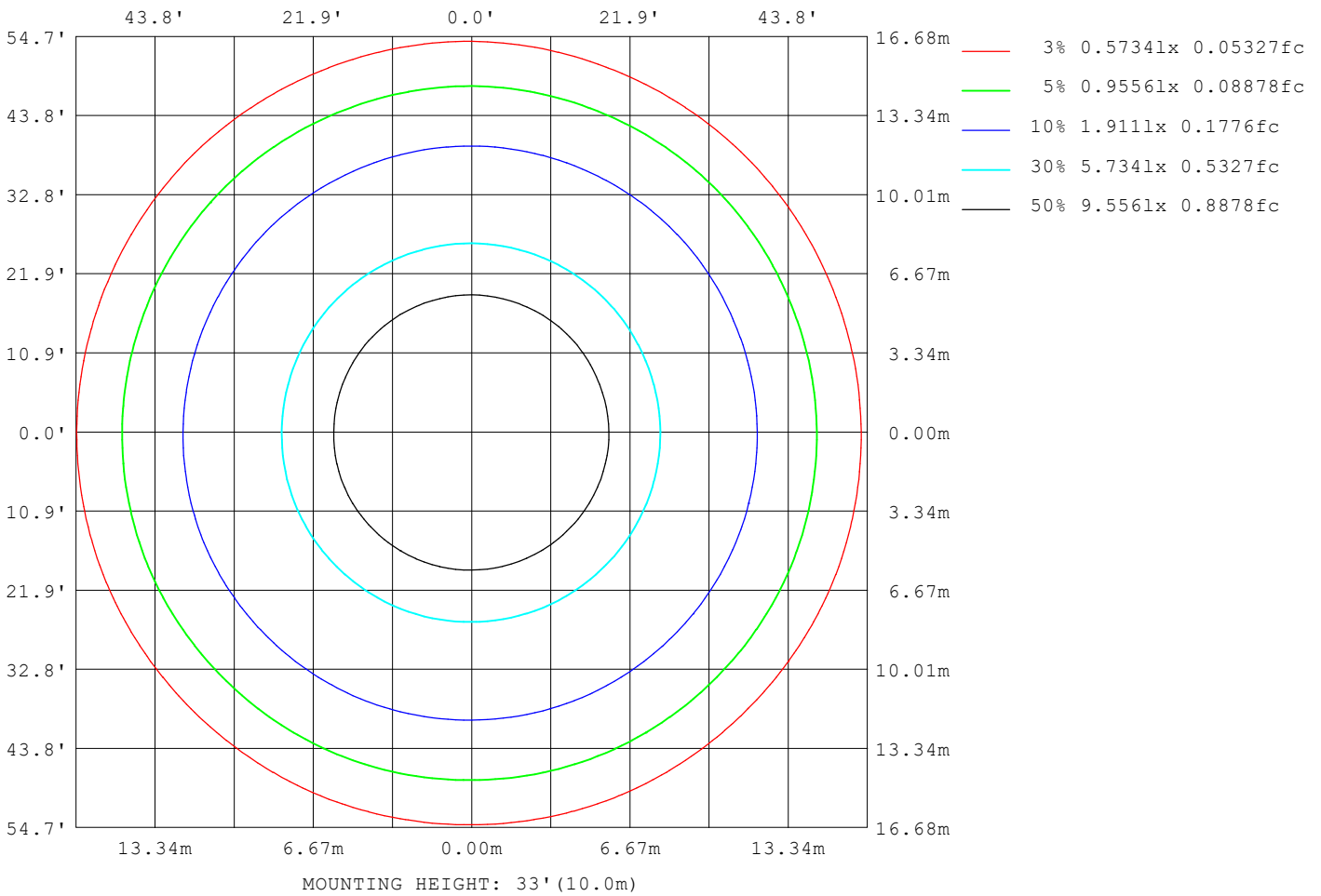
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:119.45V I:0.2822A P:33.428W PF:0.9916 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3815.27x1 lm		
NAME: DL254-10-40W-M-A5C5-HO	TYPE: 35W	WEIGHT:
SPEC.: 3500K	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:119.45V I:0.2822A P:33.428W PF:0.9916 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3815.27x1 lm		
NAME: DL254-10-40W-M-A5C5-HO	TYPE: 35W	WEIGHT:
SPEC.: 3500K	DIM.: 0.295	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.22	Shielding Angle:

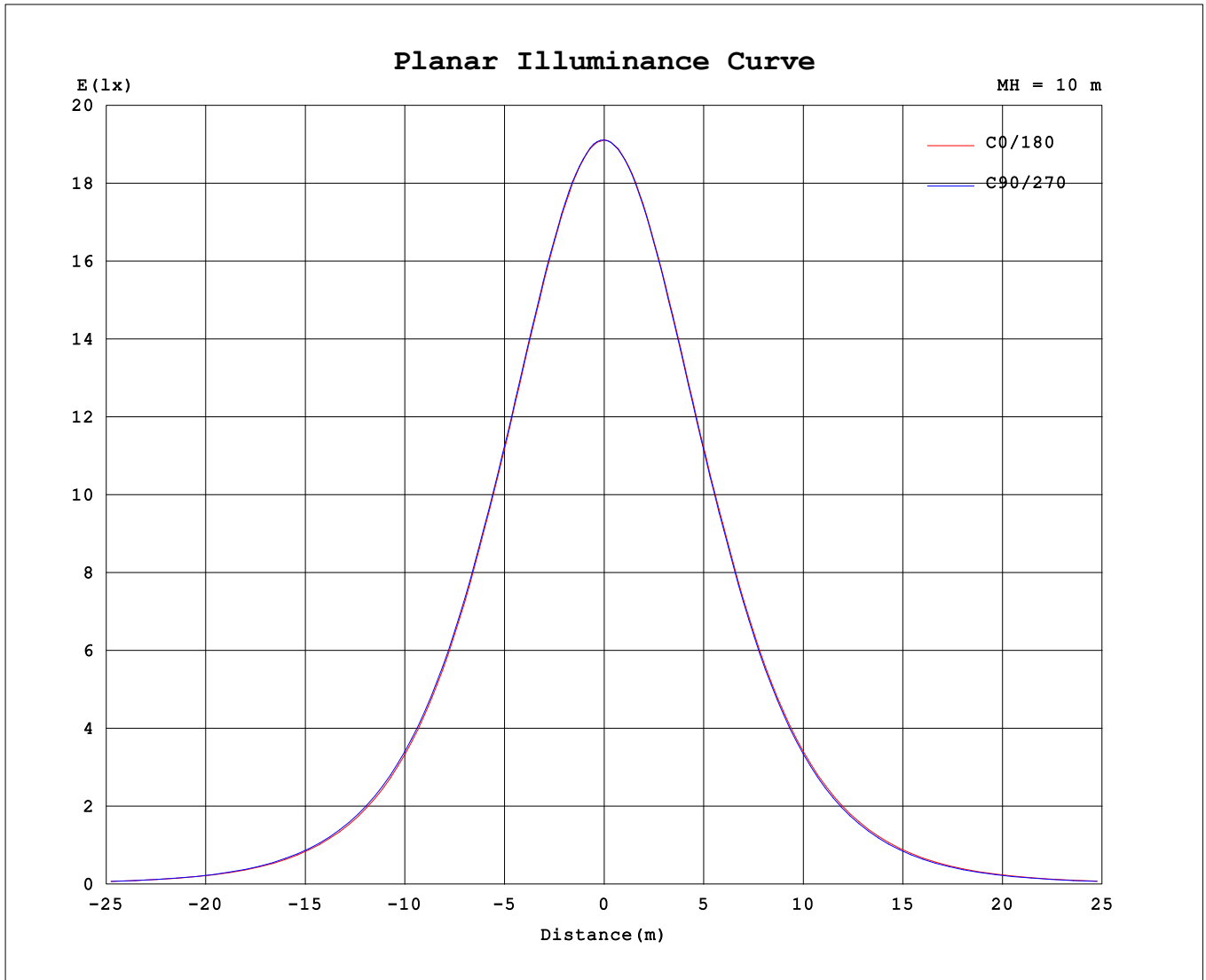
AvgL	cd/m2
L_0~180 (65) av	13521
L_0~180 (75) av	8235
L_0~180 (85) av	7119
L_90~270 (65) av	13362
L_90~270 (75) av	8261
L_90~270 (85) av	6593
L_45 (65) av	13420
L_45 (75) av	8249
L_45 (85) av	6991

Standard: GB/T 29293-2012

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

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:

