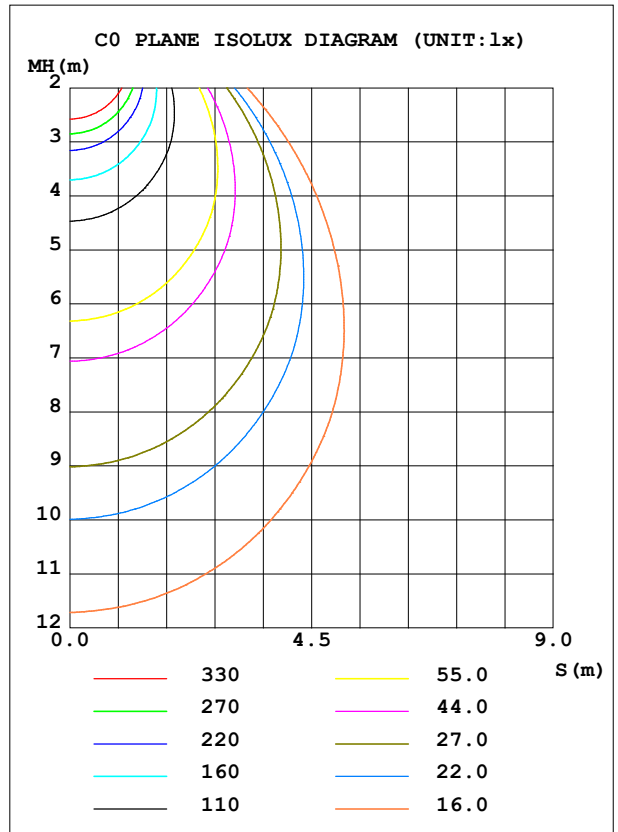
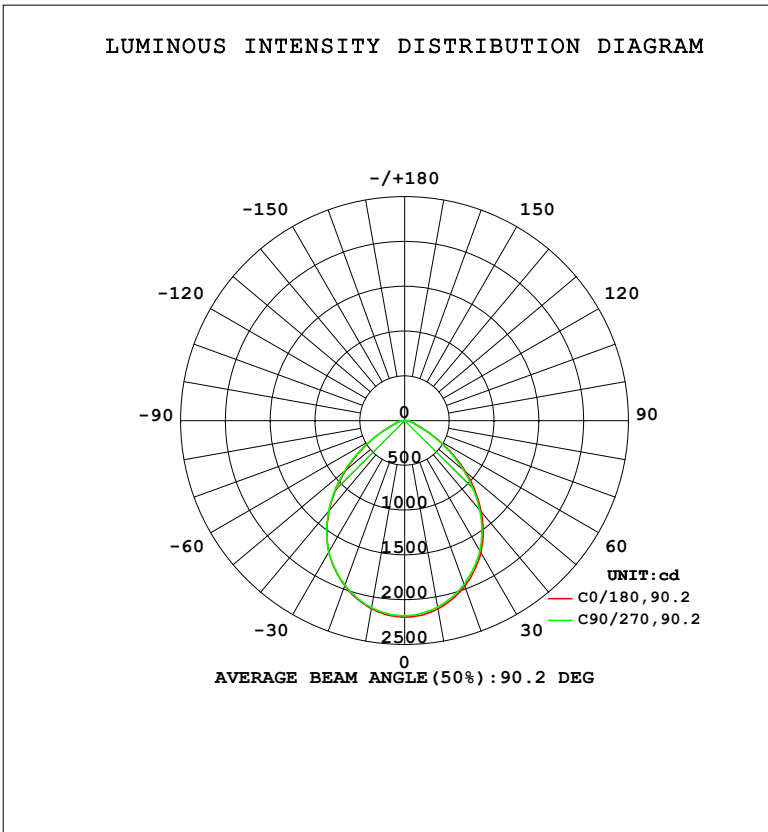


**LUMINAIRE PHOTOMETRIC TEST REPORT**

Test:U:119.37V I:0.3186A P:37.773W PF:0.9931 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:4360.04x1 lm		
NAME: DL254-10-40W-M-A5C5-HO	TYPE: 40W	WEIGHT:
SPEC.: 5000K	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)	2194	S/MH (C0/180)	1.16
NOMINAL POWER (W)	40	LOR (%)	100.0	S/MH (C90/270)	1.16
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	4360.0	<input type="checkbox"/> UP, DN (C0-180)	0.0, 50.2
NOMINAL FLUX (lm)	4360.04	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	2132	2124	2122	2120	2135	2126	2115	2106	0- 10	205.2	205.2	4.71,4.71
20	1960	1954	1955	1956	1964	1953	1942	1934	10- 20	576.8	782.1	17.9,17.9
30	1694	1690	1693	1699	1702	1691	1680	1670	20- 30	841.5	1624	37.2,37.2
40	1312	1310	1322	1331	1330	1316	1303	1294	30- 40	943.9	2568	58.9,58.9
50	857.1	863.6	874.2	887.2	885.1	869.7	856.5	845.4	40- 50	841.9	3409	78.2,78.2
60	412.4	415.5	423.5	430.2	437.4	429.5	415.5	404.2	50- 60	569.4	3979	91.3,91.3
70	132.6	132.0	134.0	136.9	140.8	141.6	137.1	133.2	60- 70	252.8	4232	97.1,97.1
80	58.58	58.40	59.31	60.84	62.82	62.79	61.68	60.35	70- 80	98.93	4330	99.3,99.3
90	1.265	1.272	1.219	1.245	2.216	2.196	2.183	2.183	80- 90	29.56	4360	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): 3013.4 lm

%lum = 69.1%

%lamp = 69.1%

Conical surface Flux(130deg): 4138 lm

%lum = 94.9%

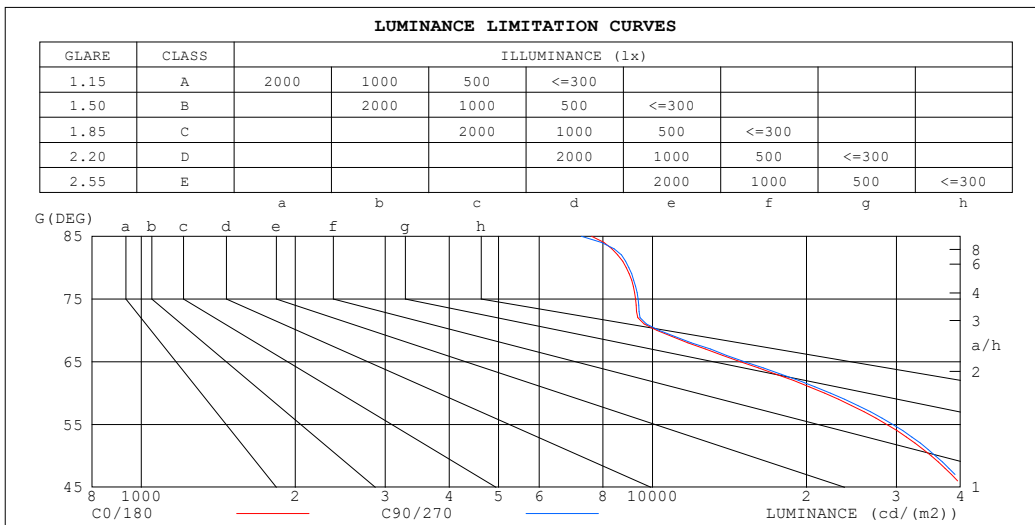
%lamp = 94.9%

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**

<b>Test:U:119.37V I:0.3186A P:37.773W PF:0.9931 Freq:60.01Hz</b> <b>UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:4360.04x1 lm</b>		
<b>NAME: DL254-10-40W-M-A5C5-HO</b>	<b>TYPE: 40W</b>	<b>WEIGHT:</b>
<b>SPEC.: 5000K</b>	<b>DIM.: 0.295</b>	<b>SERIAL No.: 1</b>
<b>MFR.: Lotus LED Lights</b>	<b>SUR.: 0.22</b>	<b>Shielding Angle:</b>



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	7604	7257
80	8877	8989
75	9265	9370
70	10201	10313
65	14874	15151
60	21706	22292
55	28733	29524
50	35090	35790
45	40498	41033

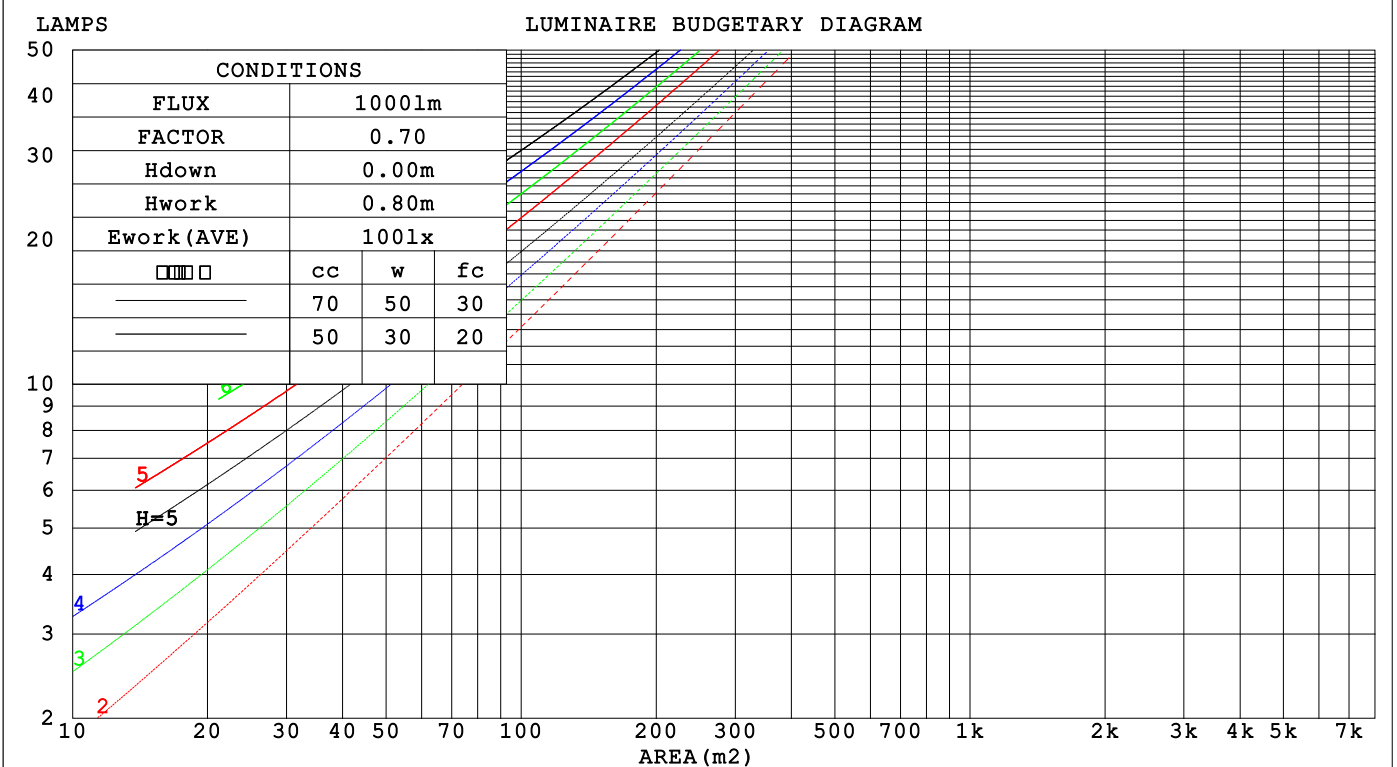
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:DAMIN  
 Test Date:2023-07-04

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:119.37V I:0.3186A P:37.773W PF:0.9931 Freq:60.01Hz		
UTHdi:0.00% ITHdi:0.00% KDisp:0 Lamp Flux:4360.04x1 lm		
NAME: DL254-10-40W-M-A5C5-HO	TYPE: 40W	WEIGHT:
SPEC.: 5000K	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	.67	.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	.53	.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:119.37V I:0.3186A P:37.773W PF:0.9931 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:4360.04x1 lm		
NAME: DL254-10-40W-M-A5C5-HO	TYPE: 40W	WEIGHT:
SPEC.: 5000K	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	.218	.125	.040	.207	.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	.174	.090	.027	.168	.088	.026	
7.0	.179	.089	.025	.176	.088	.025	.170	.086	.025	.164	.084	.025	.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	.152	.073	.020	.149	.072	.020	.145	.071	.020	.141	.070	.020	.137	.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																
1.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
2.0	.176	.157	.139	.151	.134	.120	.103	.093	.083	.059	.054	.048	.019	.017	.016	
3.0	.165	.132	.104	.142	.114	.090	.097	.079	.063	.056	.046	.037	.018	.015	.012	
4.0	.156	.114	.080	.134	.098	.070	.092	.068	.049	.053	.040	.029	.017	.013	.009	
5.0	.148	.100	.063	.127	.087	.055	.088	.060	.039	.051	.035	.023	.016	.012	.008	
6.0	.141	.089	.051	.121	.077	.045	.084	.054	.032	.048	.032	.019	.016	.010	.006	
7.0	.134	.081	.042	.116	.070	.037	.080	.049	.026	.046	.029	.016	.015	.009	.005	
8.0	.128	.074	.036	.110	.064	.031	.076	.045	.022	.044	.026	.013	.014	.009	.004	
9.0	.122	.068	.031	.105	.059	.027	.073	.041	.019	.042	.024	.011	.014	.008	.004	
10.0	.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:119.37V I:0.3186A P:37.773W PF:0.9931 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:4360.04x1 lm		
NAME: DL254-10-40W-M-A5C5-HO	TYPE: 40W	WEIGHT:
SPEC.: 5000K	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	23.9	25.2	24.1	25.4	25.6	24.0	25.3	24.2	25.5	25.7
3H	24.1	25.3	24.4	25.6	25.8	24.2	25.4	24.5	25.6	25.9
4H	24.2	25.3	24.5	25.6	25.8	24.3	25.4	24.6	25.7	25.9
6H	24.2	25.3	24.6	25.6	25.9	24.3	25.4	24.6	25.7	25.9
8H	24.3	25.3	24.6	25.6	25.8	24.3	25.4	24.7	25.6	25.9
12H	24.2	25.3	24.6	25.5	25.8	24.3	25.3	24.7	25.6	25.9
4H 2H	24.0	25.2	24.3	25.4	25.7	24.1	25.2	24.4	25.5	25.7
3H	24.3	25.3	24.7	25.6	25.9	24.4	25.4	24.7	25.7	26.0
4H	24.5	25.4	24.8	25.7	26.0	24.5	25.4	24.9	25.8	26.1
6H	24.6	25.4	25.0	25.8	26.1	24.7	25.5	25.1	25.8	26.2
8H	24.7	25.4	25.1	25.8	26.1	24.7	25.5	25.1	25.8	26.2
12H	24.7	25.4	25.1	25.8	26.1	24.8	25.4	25.2	25.8	26.2
8H 4H	24.5	25.2	24.9	25.6	25.9	24.5	25.3	24.9	25.6	26.0
6H	24.7	25.3	25.1	25.7	26.1	24.8	25.4	25.2	25.8	26.2
8H	24.8	25.3	25.3	25.8	26.2	24.9	25.4	25.3	25.8	26.3
12H	24.9	25.3	25.3	25.8	26.2	24.9	25.4	25.4	25.8	26.3
12H 4H	24.4	25.1	24.9	25.5	25.9	24.5	25.2	24.9	25.6	26.0
6H	24.7	25.2	25.1	25.7	26.1	24.8	25.3	25.2	25.7	26.2
8H	24.8	25.3	25.3	25.7	26.2	24.9	25.3	25.4	25.8	26.3

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 / - 1.8	+ 1.3 / - 1.8

CIE Pub.117, 4360 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 5.1)  
 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:119.37V I:0.3186A P:37.773W PF:0.9931 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:4360.04x1 lm		
NAME: DL254-10-40W-M-A5C5-HO	TYPE: 40W	WEIGHT:
SPEC.: 5000K	DIM.: 0.295	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.22	Shielding Angle:

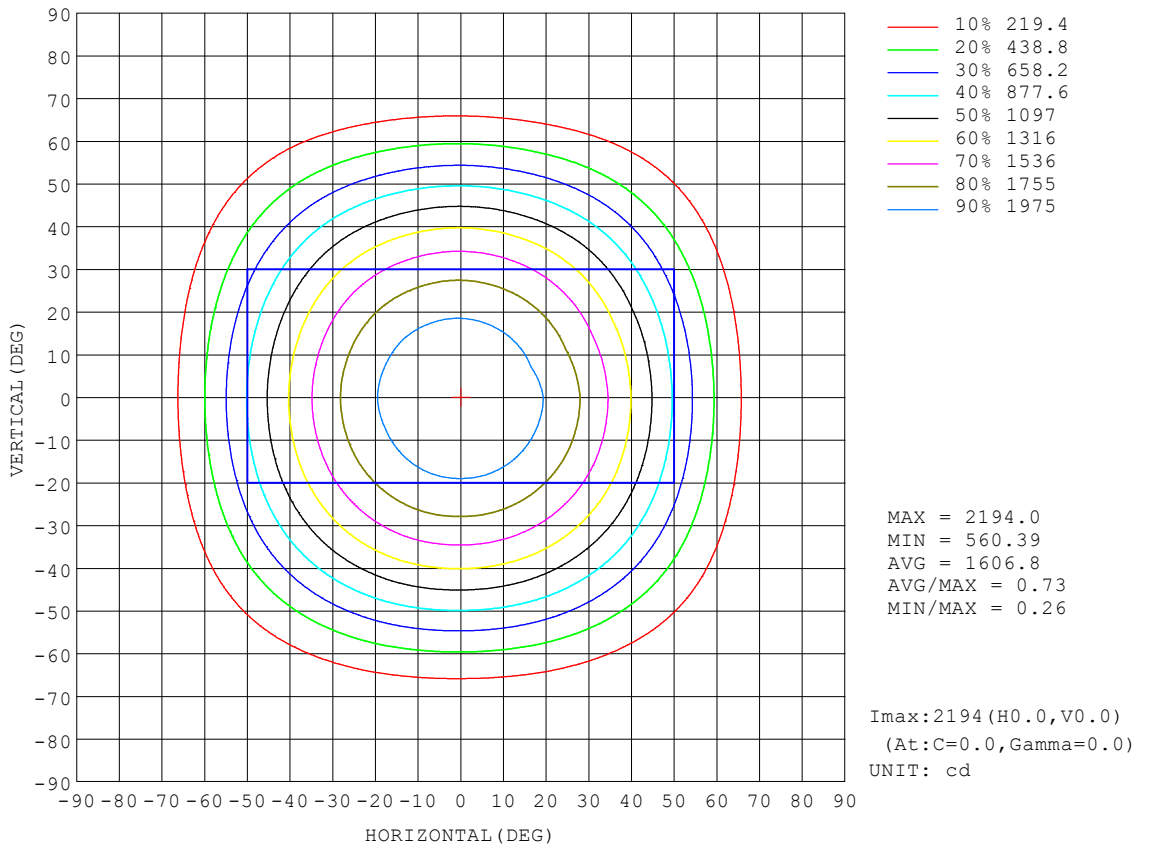
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	65	55	49	65	55	49	64	54	49	43
0.80	76	66	59	75	65	59	73	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	90	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	85
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:119.37V I:0.3186A P:37.773W PF:0.9931 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:4360.04x1 lm		
NAME: DL254-10-40W-M-A5C5-HO	TYPE: 40W	WEIGHT:
SPEC.: 5000K	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

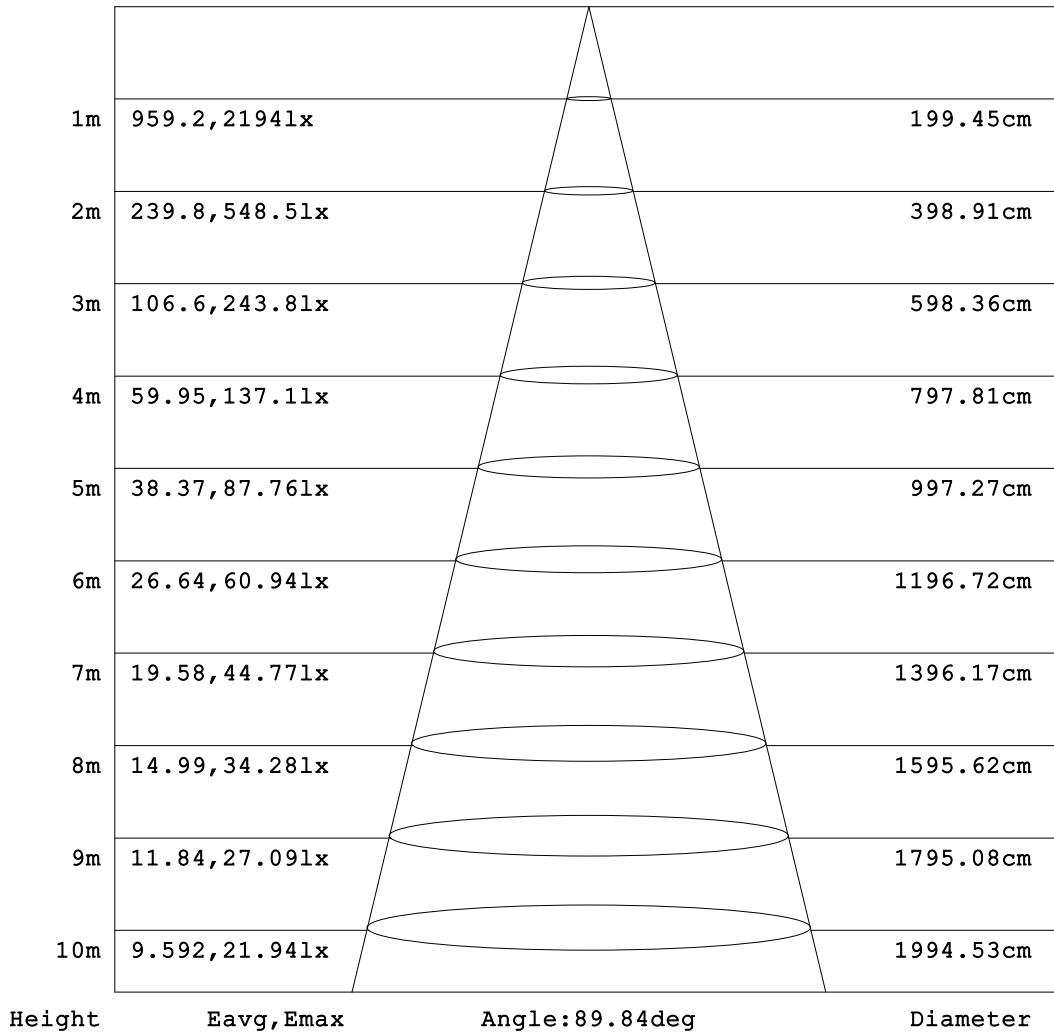
Range: 0 - 90DEG  
 Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.461  
 Humidity:65.0%  
 Test Distance:9.680m [K=1.0000]  
 Remarks:



**AAI Figure**

Test:U:119.37V I:0.3186A P:37.773W PF:0.9931 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:4360.04x1 lm		
NAME: DL254-10-40W-M-A5C5-HO	TYPE: 40W	WEIGHT:
SPEC.: 5000K	DIM.: 0.295	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.22	Shielding Angle:

Flux out:3013 lm



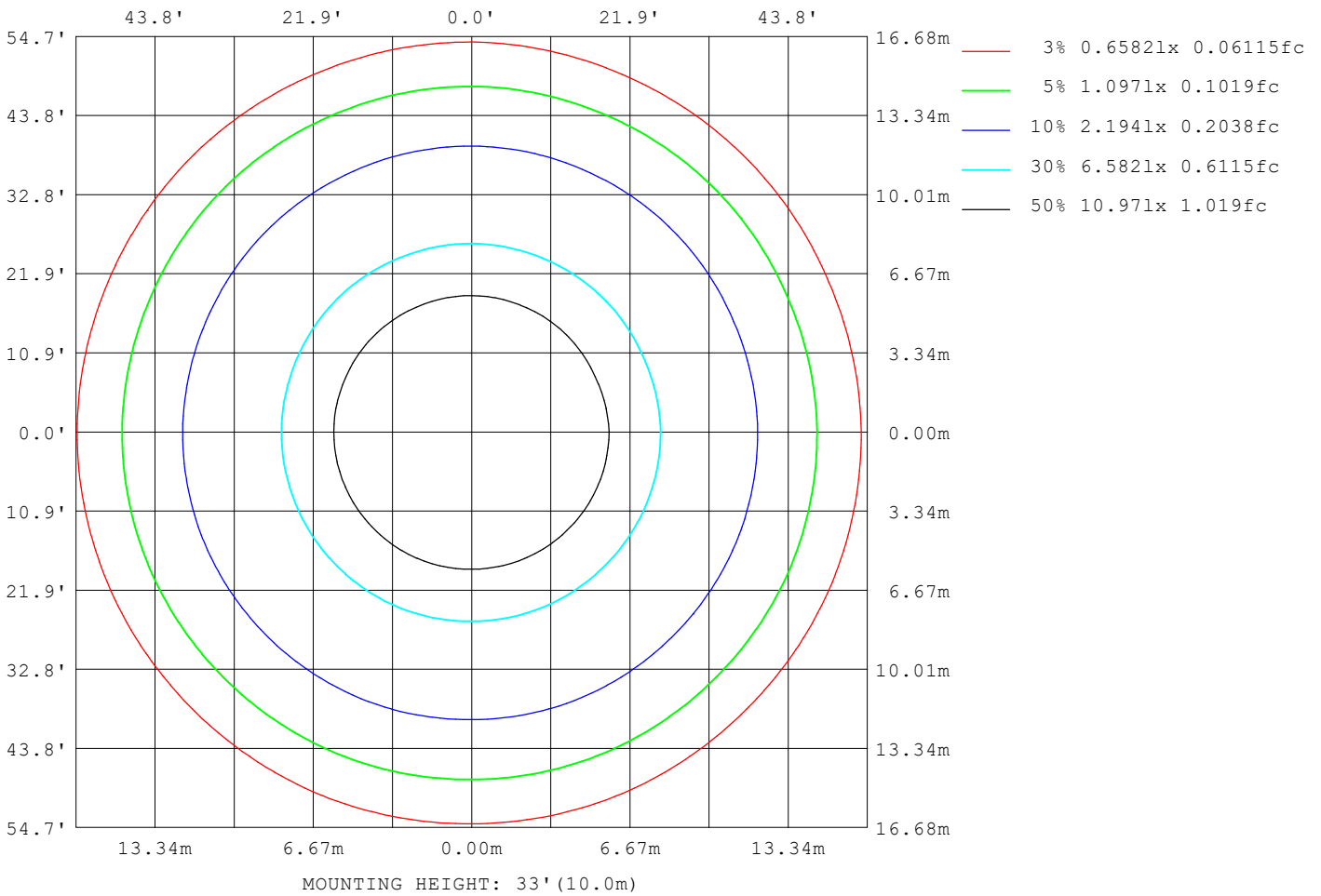
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:119.37V I:0.3186A P:37.773W PF:0.9931 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:4360.04x1 lm		
NAME: DL254-10-40W-M-A5C5-HO	TYPE: 40W	WEIGHT:
SPEC.: 5000K	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:119.37V I:0.3186A P:37.773W PF:0.9931 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:4360.04x1 lm		
NAME: DL254-10-40W-M-A5C5-HO	TYPE: 40W	WEIGHT:
SPEC.: 5000K	DIM.: 0.295	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.22	Shielding Angle:

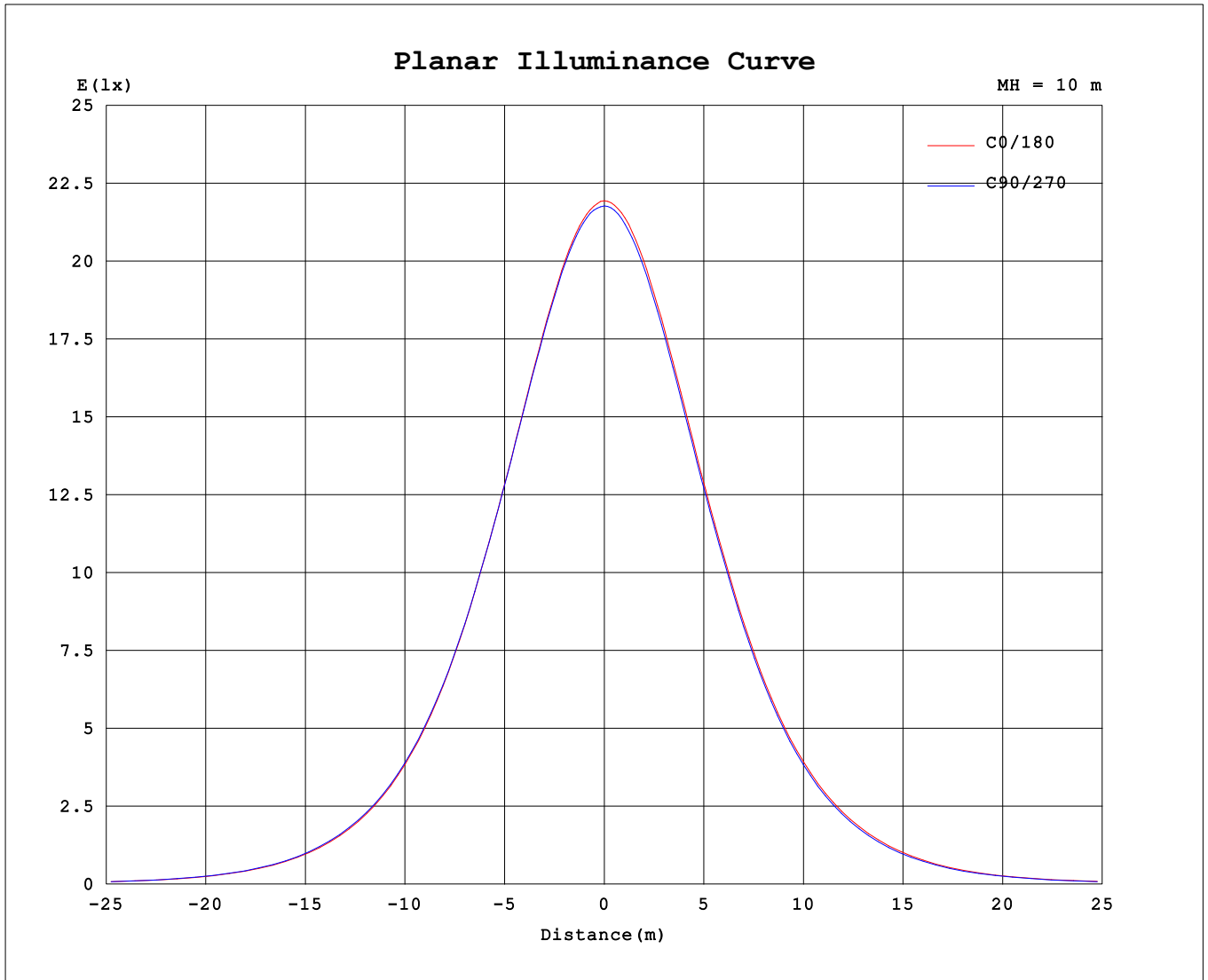
AvgL	cd/m2
L_0~180 (65) av	15374
L_0~180 (75) av	9493
L_0~180 (85) av	8207
L_90~270 (65) av	15154
L_90~270 (75) av	9454
L_90~270 (85) av	7547
L_45 (65) av	15228
L_45 (75) av	9453
L_45 (85) av	8032

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:

