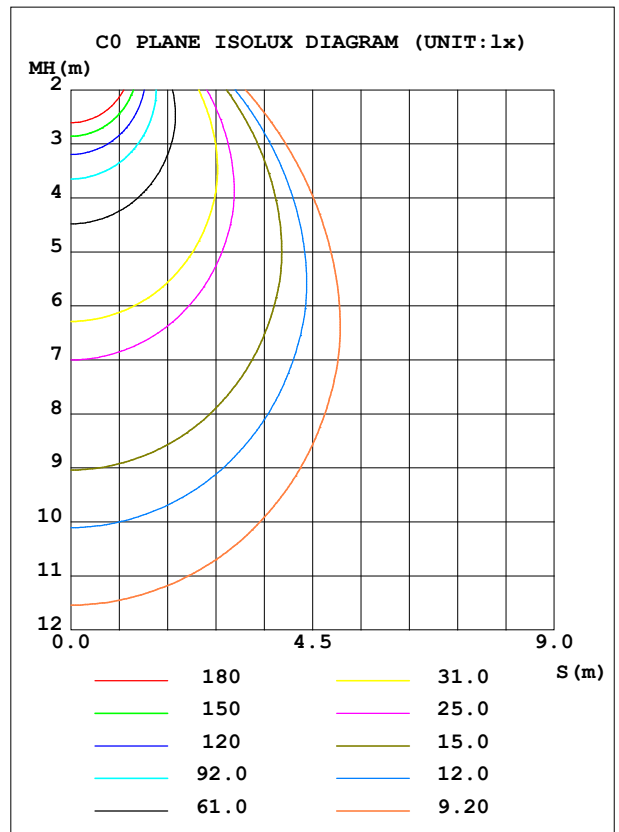
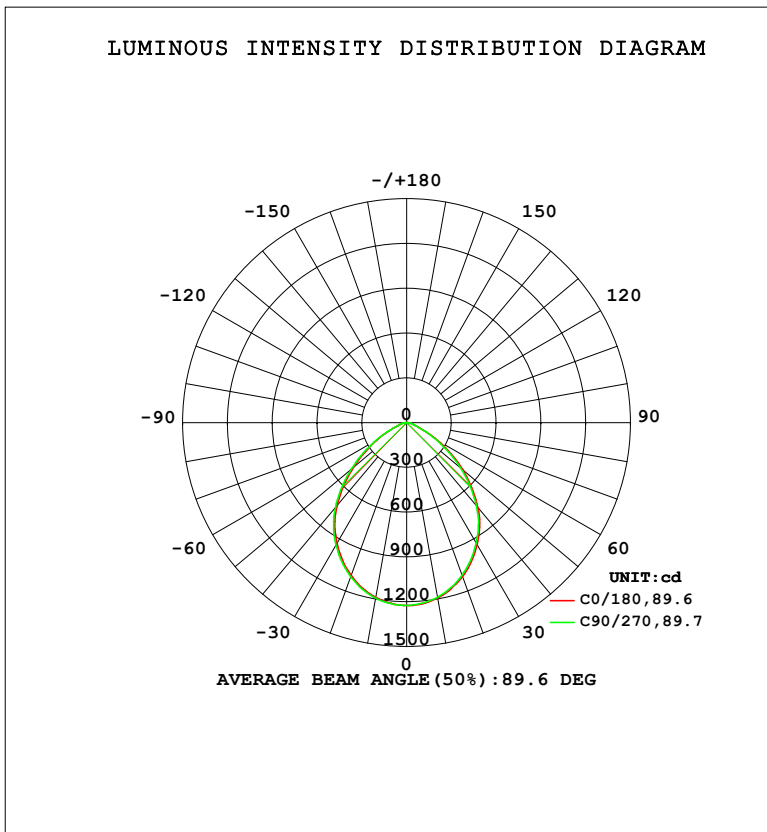


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.56V I:0.1770A P:20.961W PF:0.9904 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2412.76x1 lm		
NAME: DL254-8-35W-M-A5C5-HO	TYPE: 22W	WEIGHT:
SPEC.: 2700K	DIM.: 0.26	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.20	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	DL254-8-35W-M-A5C5-HO	Imax (cd)	1226	S/MH (C0/180)	1.15
NOMINAL POWER (W)	22	LOR (%)	100.0	S/MH (C90/270)	1.15
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	2412.8	<input type="checkbox"/> UP, DN (C0-180)	0.0, 50.3
NOMINAL FLUX (lm)	2412.76	CIE CLASS	DIRECT	<input type="checkbox"/> UP, DN (C180-360)	0.0, 49.7
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: 2023-06-28

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	1190	1191	1194	1196	1194	1192	1189	1184	0- 10	115.3	115.3	4.78,4.78
20	1089	1092	1098	1103	1097	1095	1087	1081	10- 20	323.6	438.8	18.2,18.2
30	933.2	938.8	947.4	953.6	945.0	941.4	931.8	925.0	20- 30	469.9	908.7	37.7,37.7
40	726.0	730.8	742.9	751.6	743.4	738.5	728.0	719.0	30- 40	527.4	1436	59.5,59.5
50	464.9	473.3	484.2	494.5	489.6	481.2	471.1	461.5	40- 50	467.8	1904	78.9,78.9
60	221.9	226.7	233.7	239.5	241.9	237.3	226.7	217.7	50- 60	312.6	2217	91.9,91.9
70	65.86	65.87	68.12	70.49	71.03	71.62	67.93	65.65	60- 70	136.3	2353	97.5,97.5
80	26.85	27.19	27.84	28.80	28.61	28.83	28.02	27.88	70- 80	46.52	2399	99.4,99.4
90	0.6555	0.6555	0.6096	0.6227	1.137	1.128	1.127	1.141	80- 90	13.42	2413	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): 1684.8 lm

%lum = 69.8%

%lamp = 69.8%

Conical surface Flux(130deg): 2303.7 lm

%lum = 95.5%

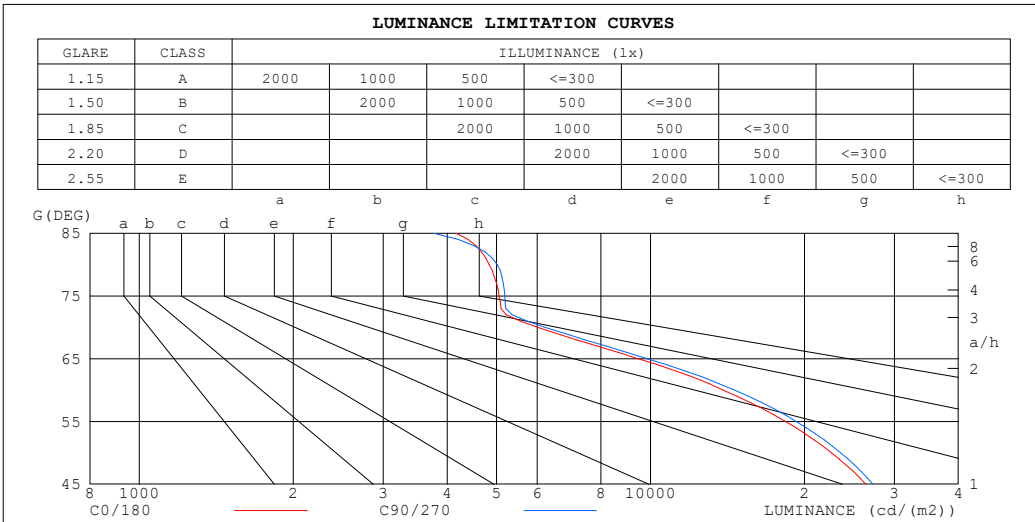
%lamp = 95.5%

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:DAMIN  
 Test Date:2023-06-28

□ 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:119.56V I:0.1770A P:20.961W PF:0.9904 Freq:60.01Hz</b> <b>UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2412.76x1 lm</b>		
<b>NAME: DL254-8-35W-M-A5C5-HO</b>	<b>TYPE: 22W</b>	<b>WEIGHT:</b>
<b>SPEC.: 2700K</b>	<b>DIM.: 0.26</b>	<b>SERIAL No.: 1</b>
<b>MFR.: Lotus LED Lights</b>	<b>SUR.: 0.20</b>	<b>Shielding Angle:</b>



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	4166	3768
80	4831	5010
75	5056	5191
70	6017	6224
65	9472	9859
60	13867	14605
55	18367	19277
50	22602	23538
45	26398	27245

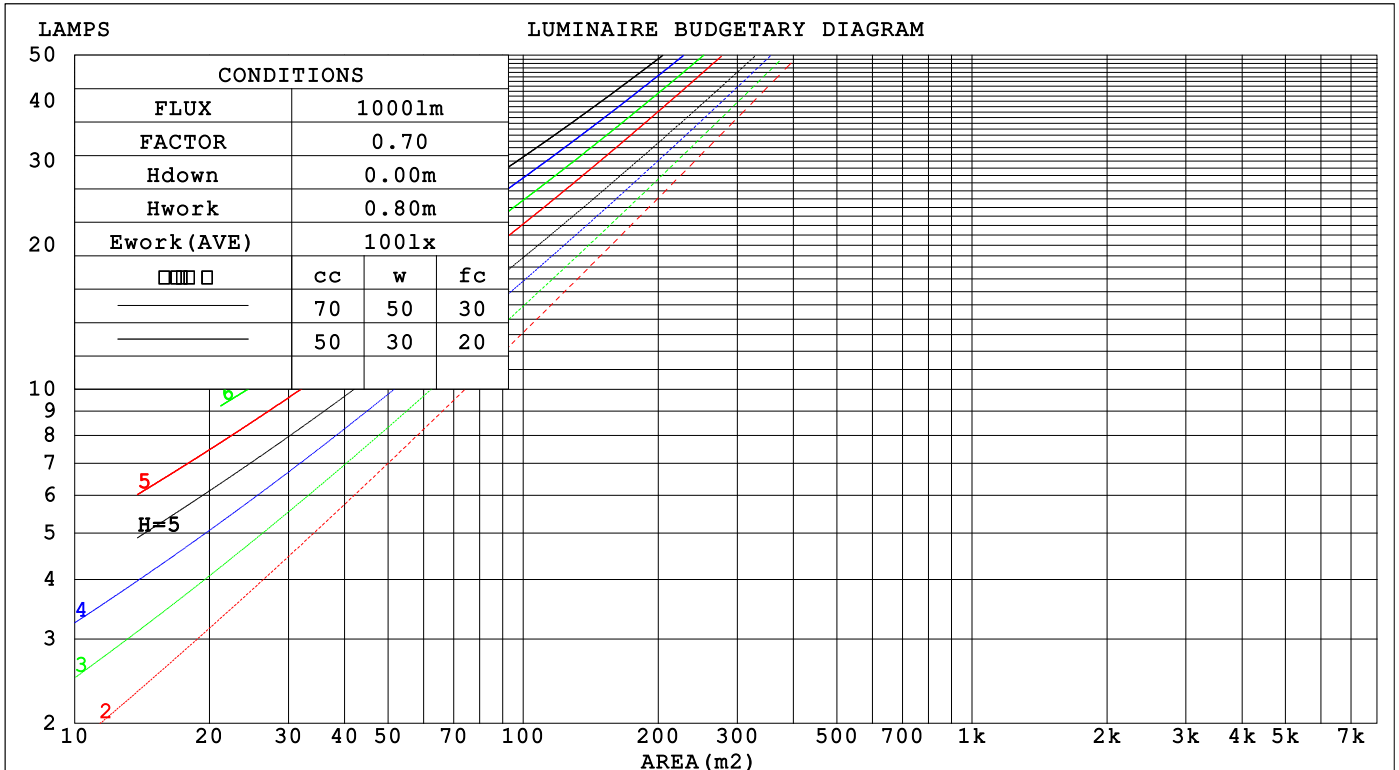
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:DAMIN  
 Test Date:2023-06-28

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:119.56V I:0.1770A P:20.961W PF:0.9904 Freq:60.01Hz		
UTHdi:0.00% ITHdi:0.00% KDisp:0 Lamp Flux:2412.76x1 lm		
NAME: DL254-8-35W-M-A5C5-HO	TYPE: 22W	WEIGHT:
SPEC.: 2700K	DIM.: 0.26	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.20	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	.98	.96	.97	.95	.93	.94	.92	.90	.88
2.0	.96	.90	.86	.94	.89	.85	.91	.86	.83	.88	.84	.81	.85	.82	.79	.77
3.0	.86	.79	.74	.85	.78	.73	.82	.76	.72	.79	.75	.71	.77	.73	.70	.68
4.0	.78	.70	.64	.76	.69	.64	.74	.68	.63	.72	.67	.62	.70	.65	.61	.60
5.0	.70	.62	.57	.69	.62	.56	.67	.61	.56	.65	.60	.55	.64	.59	.55	.53
6.0	.64	.56	.50	.63	.56	.50	.61	.55	.50	.60	.54	.49	.58	.53	.49	.47
7.0	.59	.51	.45	.58	.50	.45	.56	.50	.45	.55	.49	.44	.54	.48	.44	.42
8.0	.54	.46	.41	.53	.46	.41	.52	.45	.40	.51	.45	.40	.50	.44	.40	.38
9.0	.50	.42	.37	.49	.42	.37	.48	.41	.37	.47	.41	.37	.46	.40	.36	.35
10.0	.46	.39	.34	.46	.39	.34	.45	.38	.34	.44	.38	.34	.43	.37	.33	.32



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:DAMIN  
 Test Date:2023-06-28

□ 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:119.56V I:0.1770A P:20.961W PF:0.9904 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2412.76x1 lm		
NAME: DL254-8-35W-M-A5C5-HO	TYPE: 22W	WEIGHT:
SPEC.: 2700K	DIM.: 0.26	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.20	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	.246 .140 .044	.239 .136 .043	.226 .130 .041	.214 .123 .040	.203 .118 .038	
2.0	.238 .131 .040	.232 .128 .039	.221 .123 .038	.211 .118 .037	.201 .114 .036	
3.0	.226 .120 .036	.221 .118 .036	.211 .114 .035	.202 .111 .034	.194 .107 .033	
4.0	.213 .111 .033	.209 .109 .032	.200 .106 .032	.192 .103 .031	.185 .100 .031	
5.0	.201 .102 .030	.197 .101 .029	.189 .099 .029	.182 .096 .029	.175 .094 .028	
6.0	.189 .095 .027	.186 .094 .027	.179 .092 .027	.172 .090 .026	.166 .088 .026	
7.0	.178 .088 .025	.175 .087 .025	.169 .086 .025	.163 .084 .024	.158 .082 .024	
8.0	.168 .082 .023	.166 .082 .023	.160 .080 .023	.155 .079 .023	.150 .077 .022	
9.0	.159 .077 .022	.157 .076 .021	.152 .075 .021	.147 .074 .021	.143 .073 .021	
10.0	.151 .072 .020	.149 .072 .020	.144 .071 .020	.140 .070 .020	.136 .068 .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	.150 .134 .120	.103 .093 .083	.059 .054 .048	.019 .017 .016	
2.0	.165 .132 .104	.141 .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 .064	.127 .087 .055	.087 .060 .039	.051 .035 .023	.016 .012 .008	
5.0	.141 .089 .052	.121 .077 .045	.083 .054 .032	.048 .032 .019	.016 .010 .006	
6.0	.134 .081 .043	.115 .070 .037	.079 .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	.116 .063 .027	.100 .055 .023	.069 .038 .017	.040 .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:2023-06-28

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:119.56V I:0.1770A P:20.961W PF:0.9904 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2412.76x1 lm		
NAME: DL254-8-35W-M-A5C5-HO	TYPE: 22W	WEIGHT:
SPEC.: 2700K	DIM.: 0.26	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.20	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	22.3	23.7	22.6	23.9	24.1	22.5	23.8	22.8	24.0	24.2
3H	22.5	23.7	22.8	24.0	24.2	22.7	23.9	23.0	24.1	24.3
4H	22.5	23.7	22.8	23.9	24.2	22.7	23.9	23.0	24.1	24.3
6H	22.6	23.6	22.9	23.9	24.2	22.7	23.8	23.0	24.1	24.3
8H	22.6	23.6	22.9	23.9	24.1	22.7	23.8	23.0	24.0	24.3
12H	22.5	23.5	22.9	23.8	24.1	22.7	23.7	23.0	24.0	24.3
4H 2H	22.5	23.6	22.8	23.9	24.1	22.6	23.8	22.9	24.0	24.2
3H	22.7	23.7	23.1	24.0	24.3	22.9	23.9	23.2	24.1	24.4
4H	22.8	23.7	23.2	24.0	24.3	22.9	23.8	23.3	24.1	24.5
6H	22.9	23.7	23.3	24.0	24.4	23.0	23.8	23.4	24.2	24.5
8H	22.9	23.6	23.3	24.0	24.4	23.0	23.8	23.5	24.1	24.5
12H	22.9	23.6	23.3	24.0	24.4	23.1	23.7	23.5	24.1	24.5
8H 4H	22.8	23.5	23.2	23.9	24.2	22.9	23.6	23.3	24.0	24.4
6H	22.9	23.5	23.3	23.9	24.3	23.0	23.6	23.5	24.0	24.5
8H	23.0	23.5	23.4	23.9	24.4	23.1	23.6	23.6	24.1	24.5
12H	23.0	23.5	23.5	23.9	24.4	23.2	23.6	23.6	24.0	24.5
12H 4H	22.7	23.4	23.2	23.8	24.2	22.9	23.5	23.3	23.9	24.3
6H	22.9	23.4	23.4	23.8	24.3	23.0	23.6	23.5	24.0	24.4
8H	23.0	23.4	23.5	23.9	24.4	23.1	23.6	23.6	24.0	24.5

Variations with the observer position at spacings(CIE Pub.117):		
S = 1.0H	+ 0.7 / - 1.0	+ 0.7 / - 0.9
1.5H	+ 0.4 / - 0.4	+ 0.4 / - 0.5
2.0H	+ 1.5 / - 1.9	+ 1.5 / - 2.0

CIE Pub.117, 2413 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 3.1)  
 Area: 0.032 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:2023-06-28	Remarks:

**UTILIZATION FACTORS TABLE**

Test:U:119.56V I:0.1770A P:20.961W PF:0.9904 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2412.76x1 lm		
NAME: DL254-8-35W-M-A5C5-HO	TYPE: 22W	WEIGHT:
SPEC.: 2700K	DIM.: 0.26	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.20	Shielding Angle:

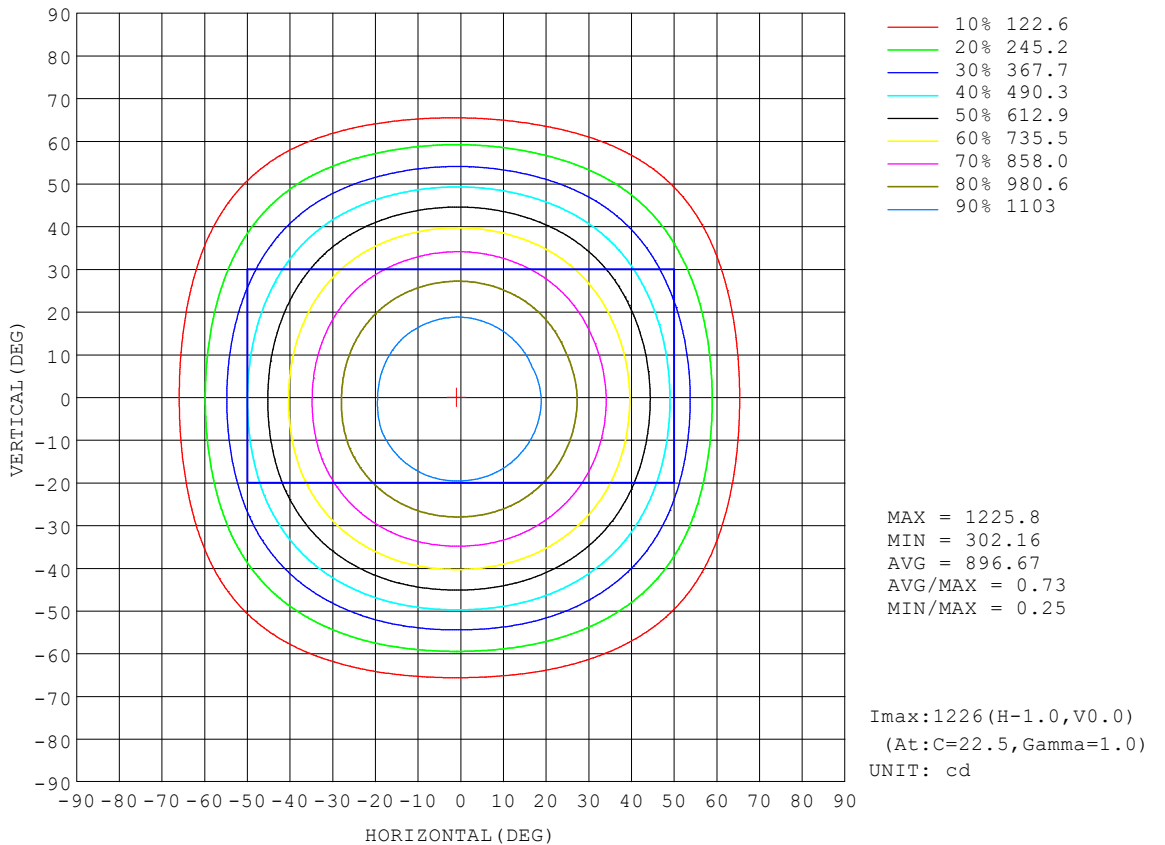
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	66	56	49	65	55	49	64	55	49	44
0.80	76	66	60	75	66	60	73	65	59	53
1.00	84	75	69	83	75	69	81	75	68	62
1.25	91	82	77	89	82	76	87	80	75	69
1.50	95	87	82	94	86	81	91	85	80	74
2.00	101	94	89	99	93	88	96	91	87	80
2.50	104	98	93	102	96	92	98	94	90	83
3.00	106	101	97	104	100	96	101	97	93	86
4.00	109	105	101	107	103	100	103	100	97	89
5.00	111	107	104	109	105	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:2023-06-28

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:119.56V I:0.1770A P:20.961W PF:0.9904 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2412.76x1 lm		
NAME: DL254-8-35W-M-A5C5-HO	TYPE: 22W	WEIGHT:
SPEC.: 2700K	DIM.: 0.26	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.20	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:DAMIN  
 Test Date:2023-06-28

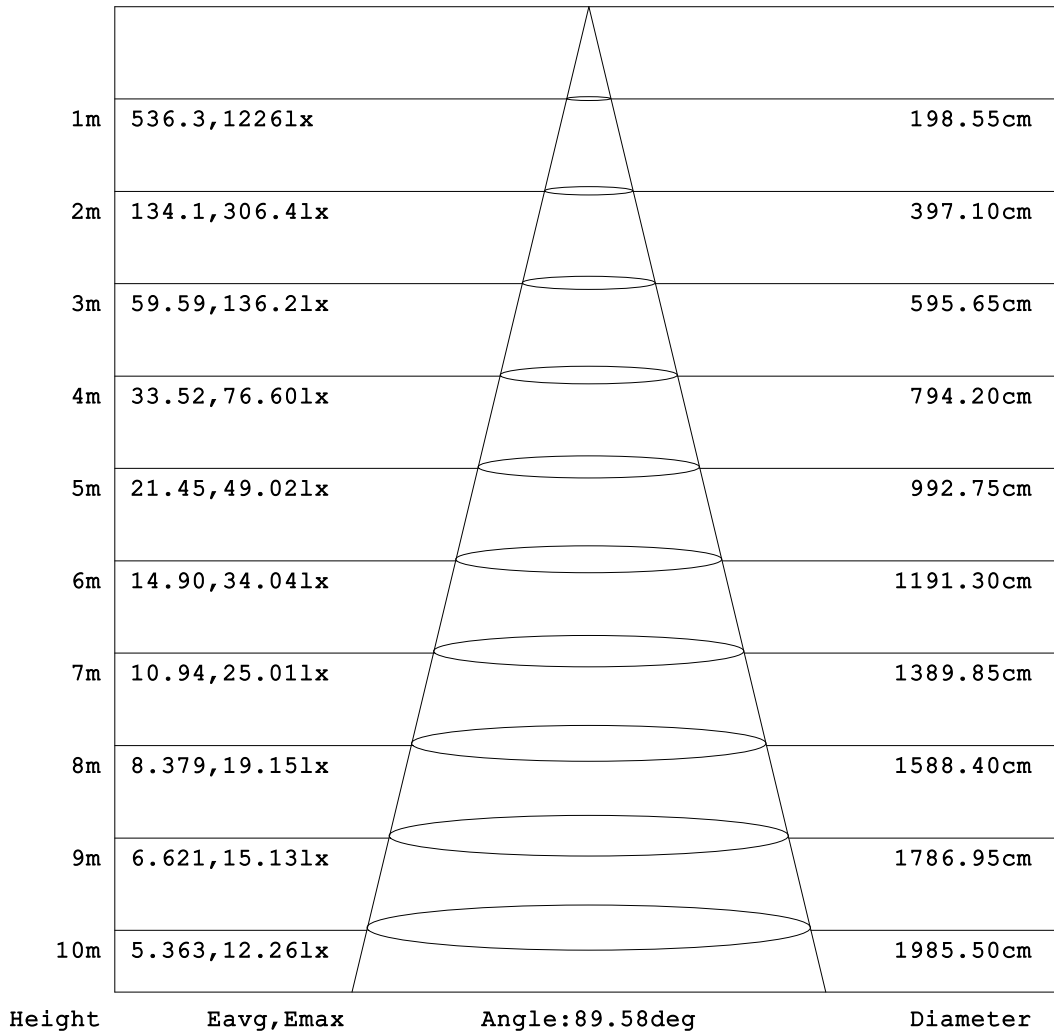
Range: 0 - 90DEG  
 Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.461  
 Humidity:65.0%  
 Test Distance:9.680m [K=1.0000]  
 Remarks:



**AAI Figure**

Test:U:119.56V I:0.1770A P:20.961W PF:0.9904 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2412.76x1 lm		
NAME: DL254-8-35W-M-A5C5-HO	TYPE: 22W	WEIGHT:
SPEC.: 2700K	DIM.: 0.26	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.20	Shielding Angle:

Flux out:1685 lm



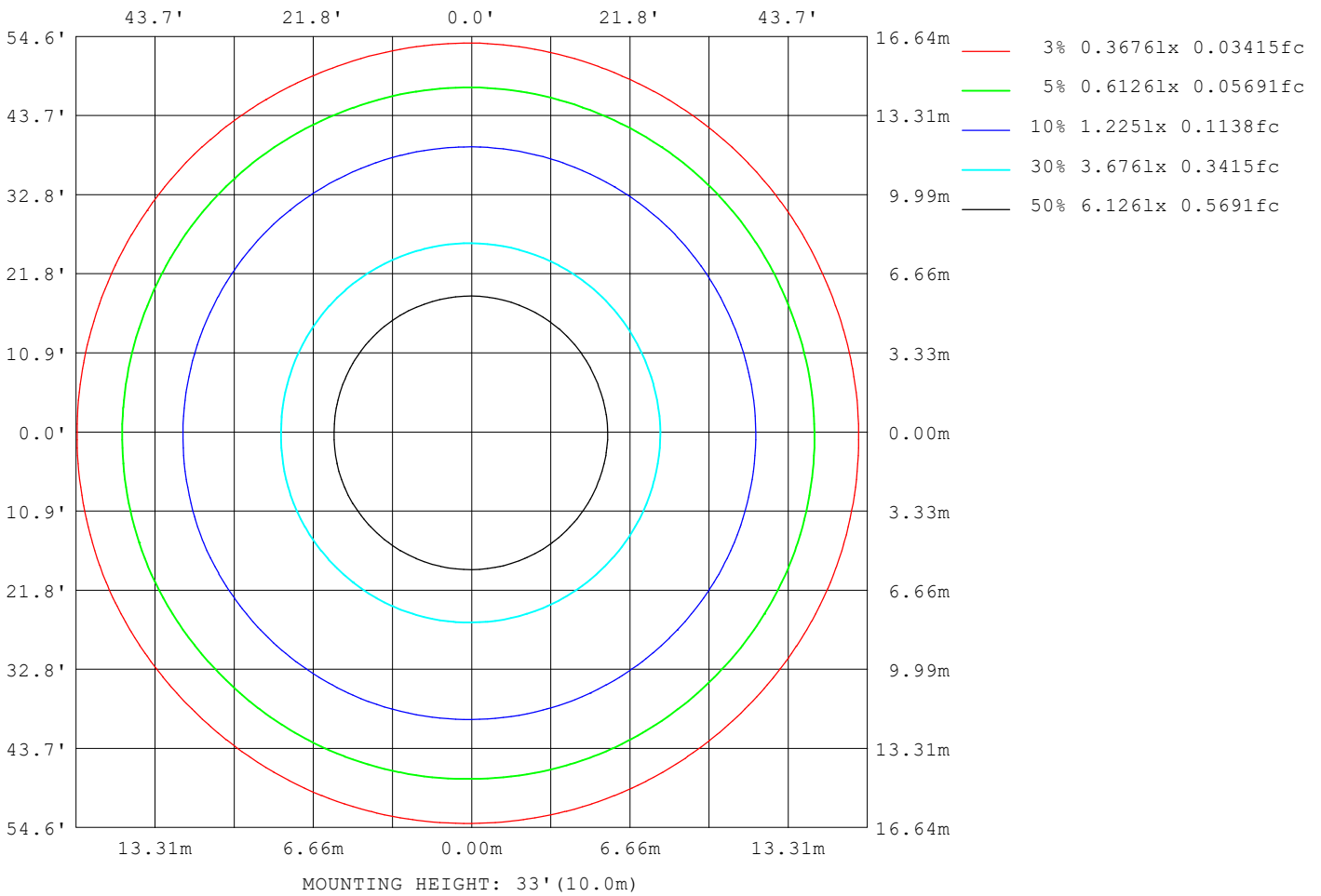
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3°C  
 Operators: DAMIN  
 Test Date: 2023-06-28

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:119.56V I:0.1770A P:20.961W PF:0.9904 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2412.76x1 lm		
NAME: DL254-8-35W-M-A5C5-HO	TYPE: 22W	WEIGHT:
SPEC.: 2700K	DIM.: 0.26	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.20	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:DAMIN  
 Test Date:2023-06-28

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:119.56V I:0.1770A P:20.961W PF:0.9904 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:2412.76x1 lm		
NAME: DL254-8-35W-M-A5C5-HO	TYPE: 22W	WEIGHT:
SPEC.: 2700K	DIM.: 0.26	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.20	Shielding Angle:

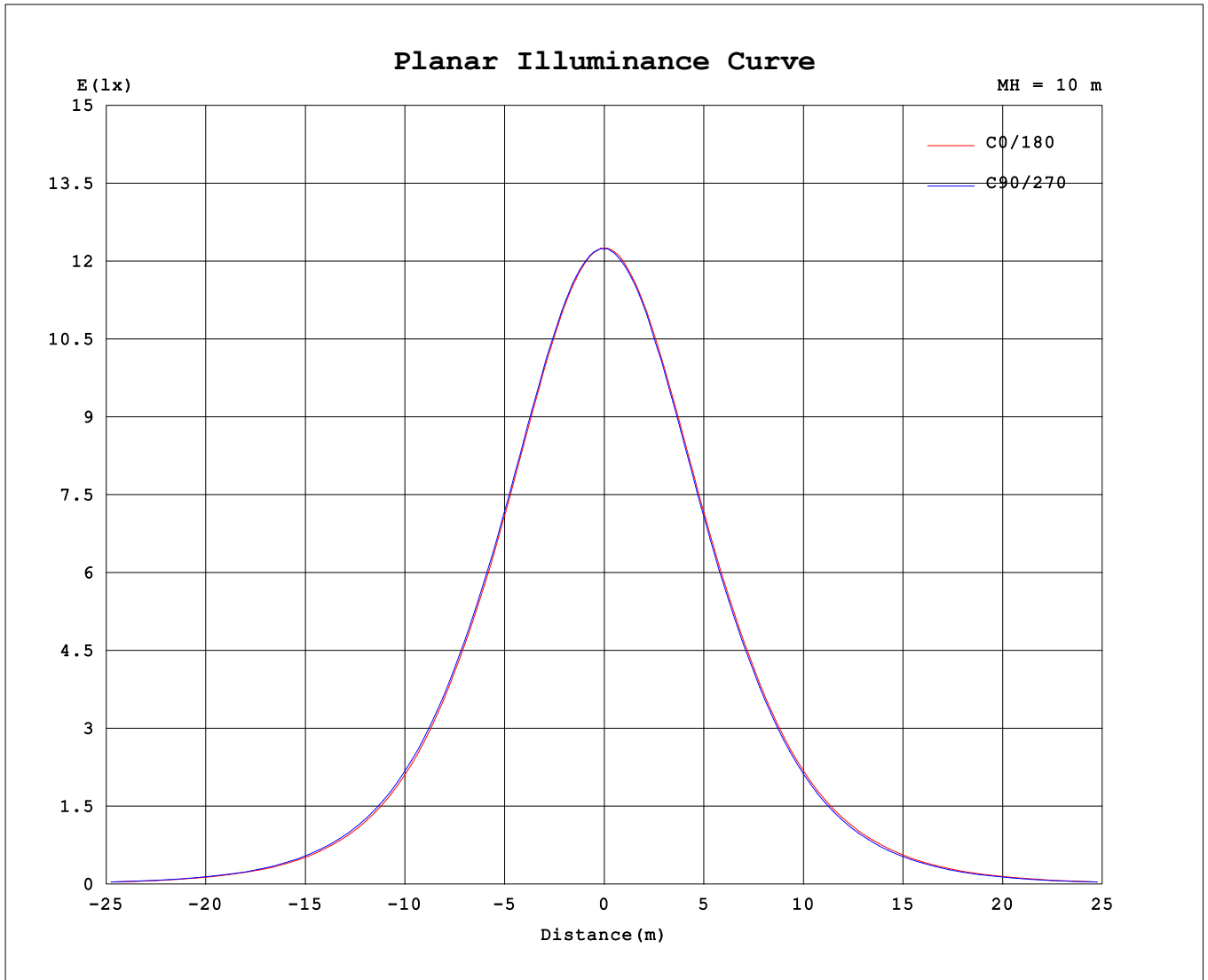
AvgL	cd/m2
L_0~180 (65) av	9860
L_0~180 (75) av	5161
L_0~180 (85) av	4477
L_90~270 (65) av	9712
L_90~270 (75) av	5188
L_90~270 (85) av	3882
L_45 (65) av	9801
L_45 (75) av	5191
L_45 (85) av	4269

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3℃  
 Operators:DAMIN  
 Test Date:2023-06-28

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: 2023-06-28

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:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.56V I:0.1770A P:20.961W PF:0.9904 Freq:60.01Hz
UTHDI:0.00% ITHDI:0.00% KDisp:0 Lamp Flux:2412.76x1 lm
NAME: DL254-8-35W-M-A5C5-HO TYPE: 22W WEIGHT:
SPEC.: 2700K DIM.: 0.26 SERIAL No.: 1
MFR.: Lotus LED Lights SUR.: 0.20 Shielding Angle:

Table--1

UNIT: cd

Table with columns for C (DEG) and I (DEG) ranging from 0 to 90 degrees. The table contains numerical values representing luminous intensity at various angles.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3C
Operators:DAMIN
Test Date:2023-06-28

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: