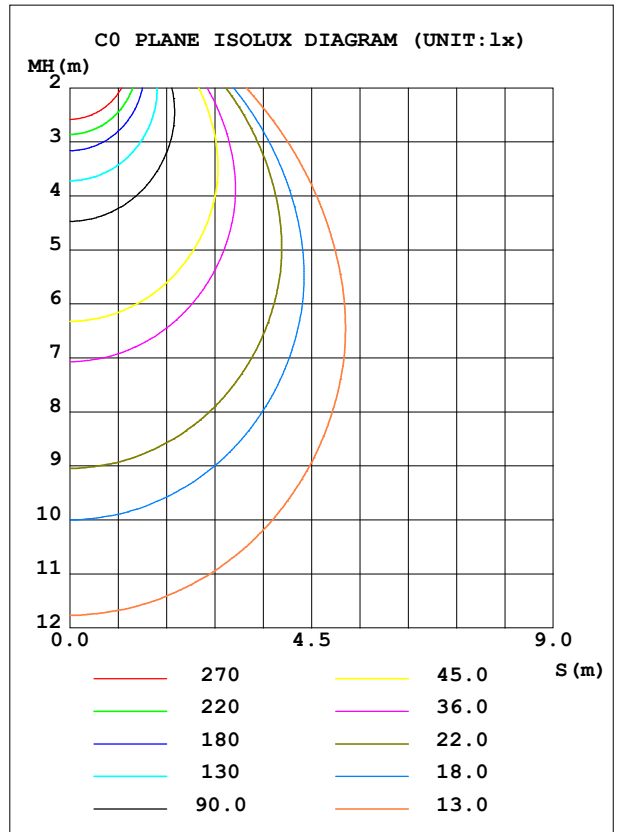
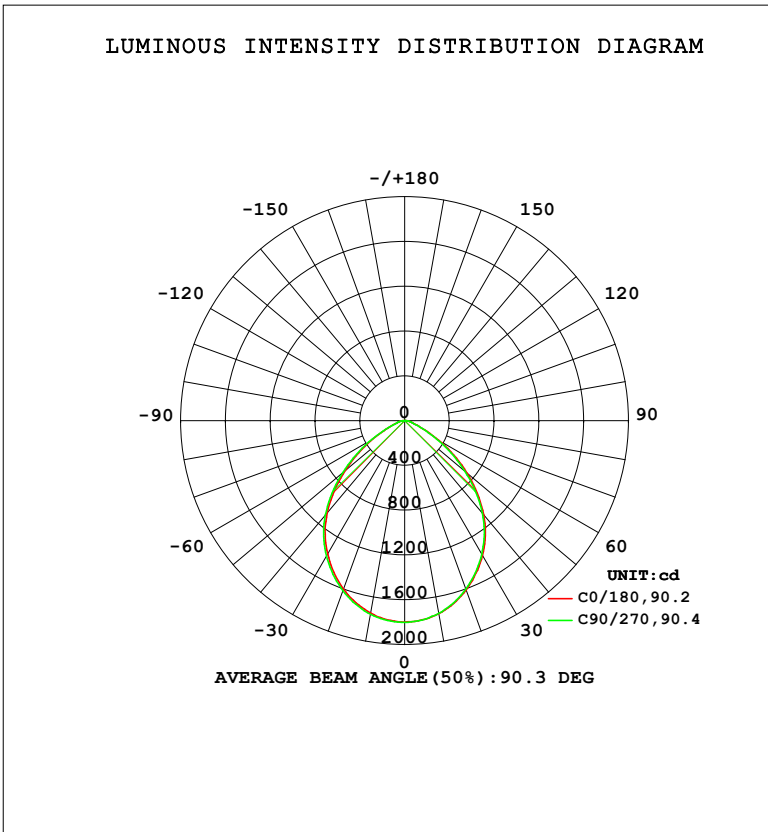


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.56V I:0.2422A P:28.722W PF:0.9919 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3565.45x1 lm		
NAME: DL254-8-35W-M-A5C5-HO	TYPE: 30W	WEIGHT:
SPEC.: 5000K	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)	1803	S/MH (C0/180)	1.15
NOMINAL POWER (W)	30	LOR (%)	100.0	S/MH (C90/270)	1.15
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	3565.4	<input type="checkbox"/> UP, DN (C0-180)	0.0, 50.3
NOMINAL FLUX (lm)	3565.45	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	1746	1751	1757	1759	1750	1751	1748	1743	0- 10	169.5	169.5	4.75,4.75
20	1600	1606	1615	1623	1610	1609	1601	1593	10- 20	475.9	645.4	18.1,18.1
30	1377	1383	1396	1404	1390	1387	1377	1368	20- 30	692.0	1337	37.5,37.5
40	1077	1084	1103	1114	1098	1095	1083	1070	30- 40	779.5	2117	59.4,59.4
50	693.2	706.2	722.7	737.7	726.2	716.7	702.5	690.6	40- 50	696.3	2813	78.9,78.9
60	325.2	332.6	342.3	351.0	352.3	346.8	332.4	319.5	50- 60	463.6	3277	91.9,91.9
70	98.23	98.22	101.2	104.5	104.9	105.8	101.0	97.90	60- 70	198.8	3476	97.5,97.5
80	40.35	40.82	41.83	43.13	42.78	43.14	42.03	41.86	70- 80	69.65	3545	99.4,99.4
90	1.009	0.9964	0.9505	0.9571	1.737	1.711	1.711	1.731	80- 90	20.13	3565	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): 2486.6 lm

%lum = 69.7%

%lamp = 69.7%

Conical surface Flux(130deg): 3403.7 lm

%lum = 95.5%

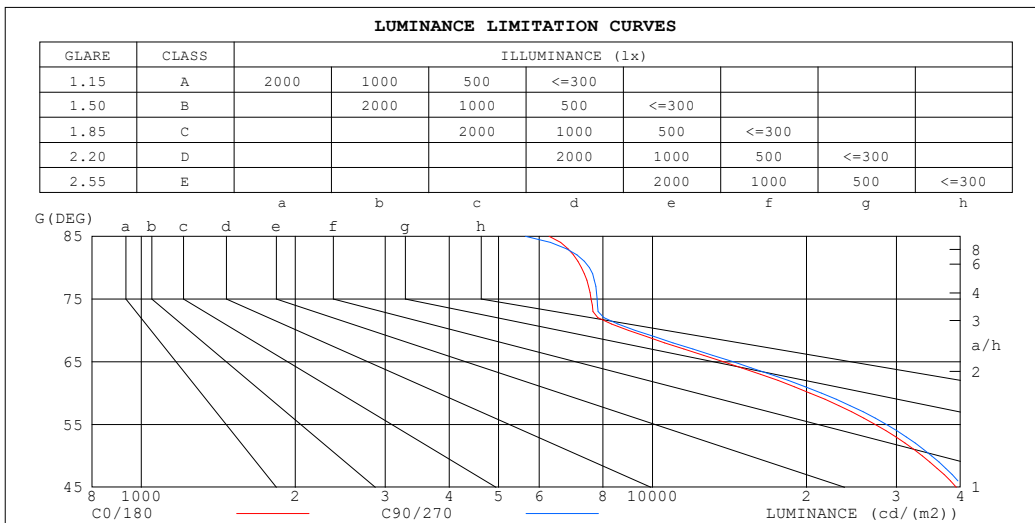
%lamp = 95.5%

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

Test:U:119.56V I:0.2422A P:28.722W PF:0.9919 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3565.45x1 lm		
NAME: DL254-8-35W-M-A5C5-HO	TYPE: 30W	WEIGHT:
SPEC.: 5000K	DIM.: 0.26	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.20	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	6273	5644
80	7262	7528
75	7585	7791
70	8975	9250
65	13767	14392
60	20325	21395
55	27288	28689
50	33703	35136
45	39298	40598

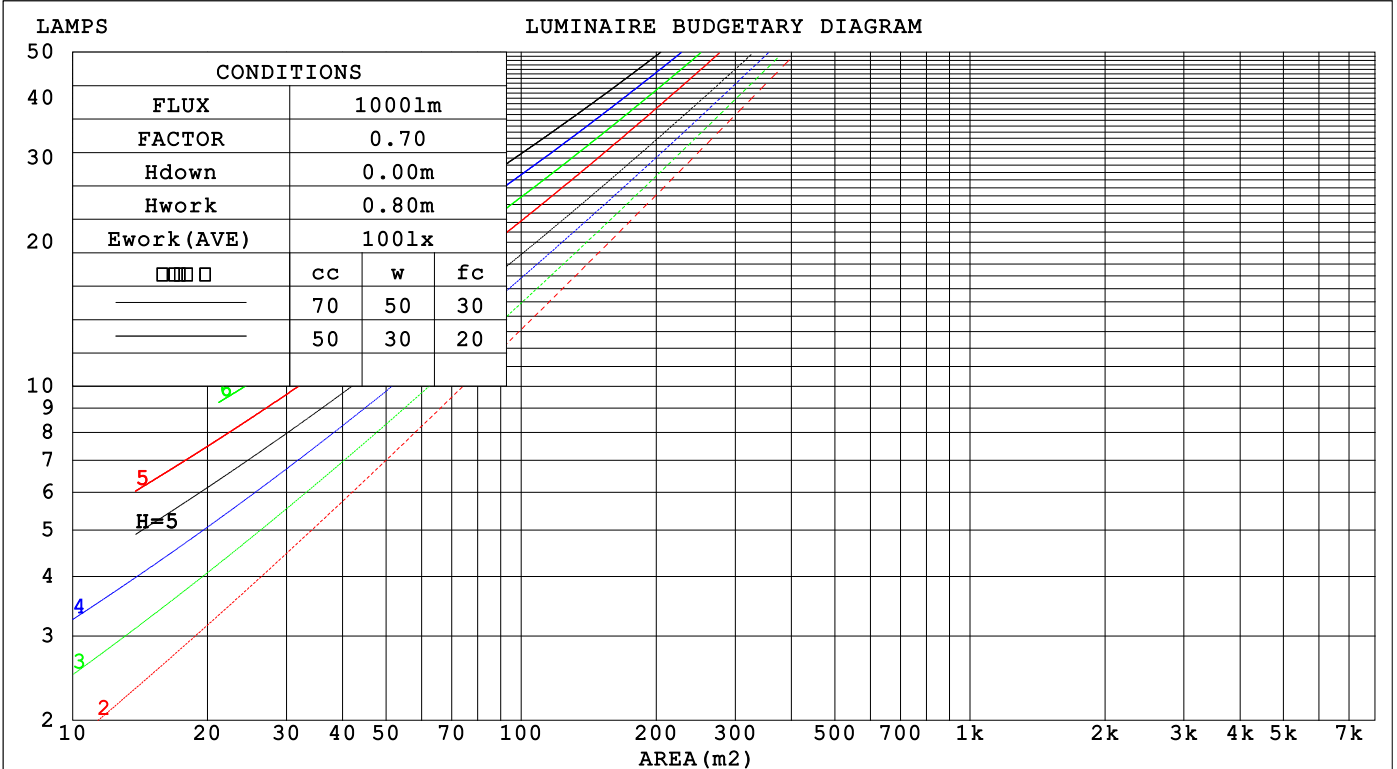
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: DAMIN
 Test Date: 2023-06-28

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:0.2422A P:28.722W PF:0.9919 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3565.45x1 lm		
NAME: DL254-8-35W-M-A5C5-HO	TYPE: 30W	WEIGHT:
SPEC.: 5000K	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	.93	.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	.66	.62	.70	.65	.61	.59
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	.45	.38	.34	.45	.38	.34	.44	.38	.33	.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:0.2422A P:28.722W PF:0.9919 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3565.45x1 lm		
NAME: DL254-8-35W-M-A5C5-HO	TYPE: 30W	WEIGHT:
SPEC.: 5000K	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 .124 .040	.203 .118 .038	
2.0	.238 .131 .040	.232 .128 .039	.221 .123 .038	.211 .118 .037	.201 .114 .036	
3.0	.226 .121 .036	.221 .118 .036	.211 .115 .035	.202 .111 .034	.194 .107 .033	
4.0	.214 .111 .033	.209 .109 .032	.200 .106 .032	.192 .103 .031	.185 .100 .031	
5.0	.201 .103 .030	.197 .101 .029	.189 .099 .029	.182 .096 .029	.176 .094 .028	
6.0	.189 .095 .027	.186 .094 .027	.179 .092 .027	.173 .090 .026	.167 .088 .026	
7.0	.179 .088 .025	.175 .087 .025	.169 .086 .025	.164 .084 .024	.158 .082 .024	
8.0	.169 .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:0.2422A P:28.722W PF:0.9919 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3565.45x1 lm		
NAME: DL254-8-35W-M-A5C5-HO	TYPE: 30W	WEIGHT:
SPEC.: 5000K	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	23.7	25.0	24.0	25.2	25.4	23.9	25.2	24.1	25.4	25.6
3H	23.9	25.1	24.2	25.3	25.5	24.0	25.3	24.3	25.5	25.7
4H	23.9	25.1	24.2	25.3	25.5	24.1	25.2	24.4	25.5	25.7
6H	23.9	25.0	24.2	25.3	25.5	24.1	25.2	24.4	25.4	25.7
8H	23.9	25.0	24.3	25.2	25.5	24.1	25.1	24.4	25.4	25.7
12H	23.9	24.9	24.3	25.2	25.5	24.1	25.1	24.4	25.3	25.6
4H 2H	23.8	25.0	24.1	25.2	25.5	24.0	25.1	24.3	25.4	25.6
3H	24.1	25.1	24.4	25.4	25.7	24.2	25.2	24.6	25.5	25.8
4H	24.2	25.1	24.5	25.4	25.7	24.3	25.2	24.7	25.5	25.8
6H	24.2	25.0	24.6	25.4	25.7	24.4	25.2	24.8	25.5	25.9
8H	24.3	25.0	24.7	25.4	25.7	24.4	25.1	24.8	25.5	25.9
12H	24.3	25.0	24.7	25.3	25.7	24.4	25.1	24.8	25.5	25.9
8H 4H	24.1	24.9	24.5	25.2	25.6	24.3	25.0	24.7	25.4	25.7
6H	24.3	24.9	24.7	25.3	25.7	24.4	25.0	24.9	25.4	25.8
8H	24.4	24.9	24.8	25.3	25.7	24.5	25.0	24.9	25.4	25.9
12H	24.4	24.9	24.9	25.3	25.8	24.5	25.0	25.0	25.4	25.9
12H 4H	24.1	24.8	24.5	25.1	25.5	24.2	24.9	24.7	25.3	25.7
6H	24.3	24.8	24.7	25.2	25.7	24.4	24.9	24.9	25.4	25.8
8H	24.4	24.8	24.8	25.3	25.7	24.5	24.9	25.0	25.4	25.9

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 / - 2.0	+ 1.5 / - 2.0

CIE Pub.117, 3565 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 4.4)
 Area: 0.032 m2

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:

UTILIZATION FACTORS TABLE

Test:U:119.56V I:0.2422A P:28.722W PF:0.9919 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3565.45x1 lm		
NAME: DL254-8-35W-M-A5C5-HO	TYPE: 30W	WEIGHT:
SPEC.: 5000K	DIM.: 0.26	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.20	Shielding Angle:

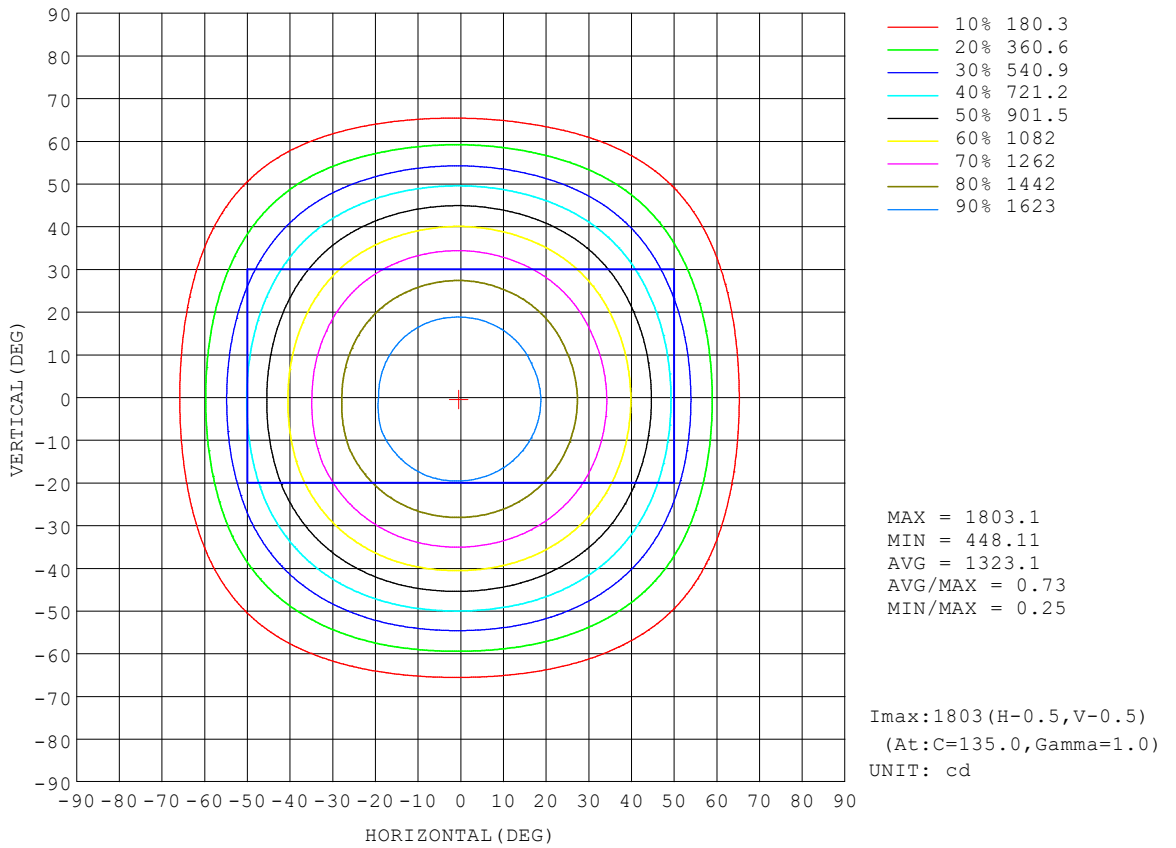
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	66	55	49	65	55	49	64	55	49	43
0.80	76	66	60	75	66	60	73	65	59	53
1.00	84	75	69	83	74	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:0.2422A P:28.722W PF:0.9919 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3565.45x1 lm		
NAME: DL254-8-35W-M-A5C5-HO	TYPE: 30W	WEIGHT:
SPEC.: 5000K	DIM.: 0.26	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.20	Shielding Angle:

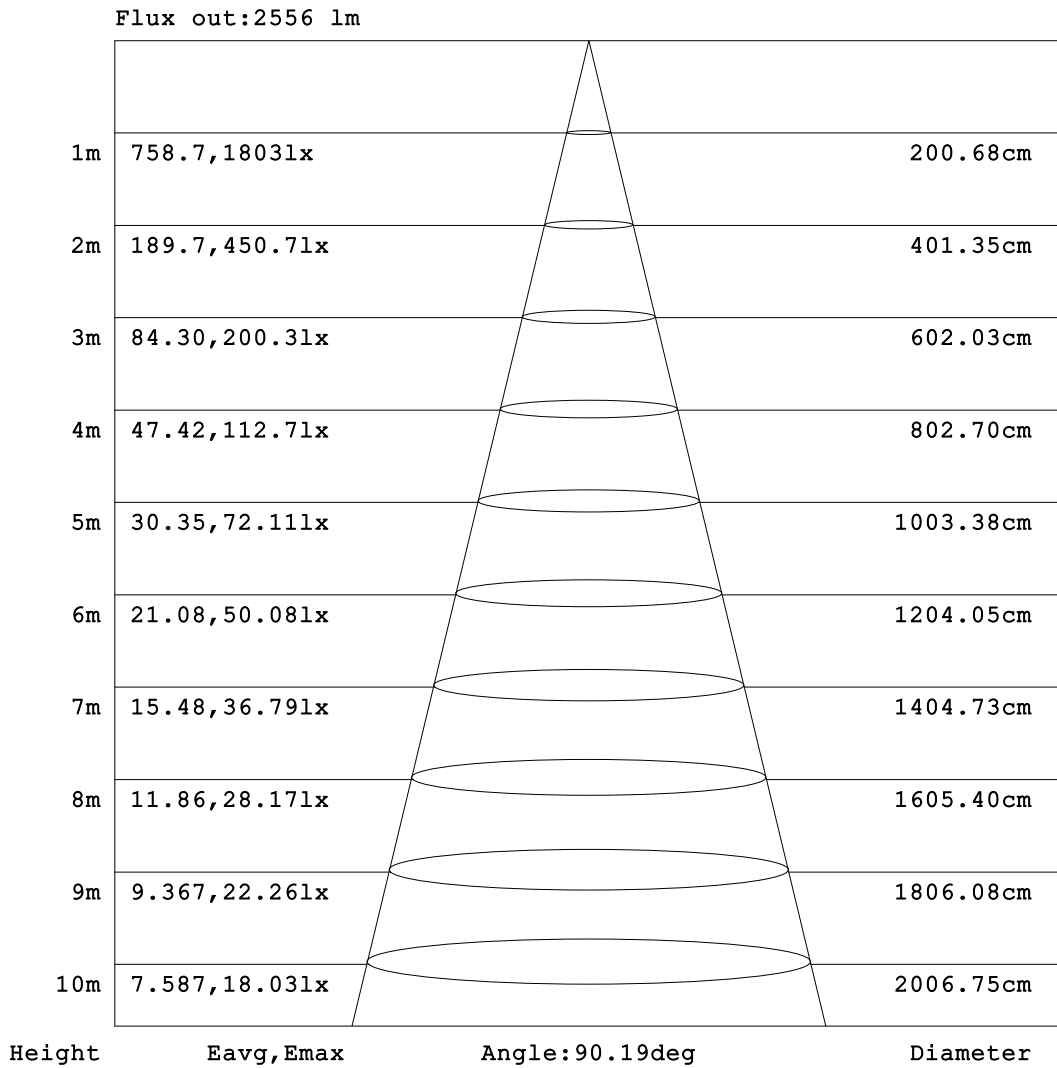


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2023-06-28

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:0.2422A P:28.722W PF:0.9919 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3565.45x1 lm		
NAME: DL254-8-35W-M-A5C5-HO	TYPE: 30W	WEIGHT:
SPEC.: 5000K	DIM.: 0.26	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.20	Shielding Angle:



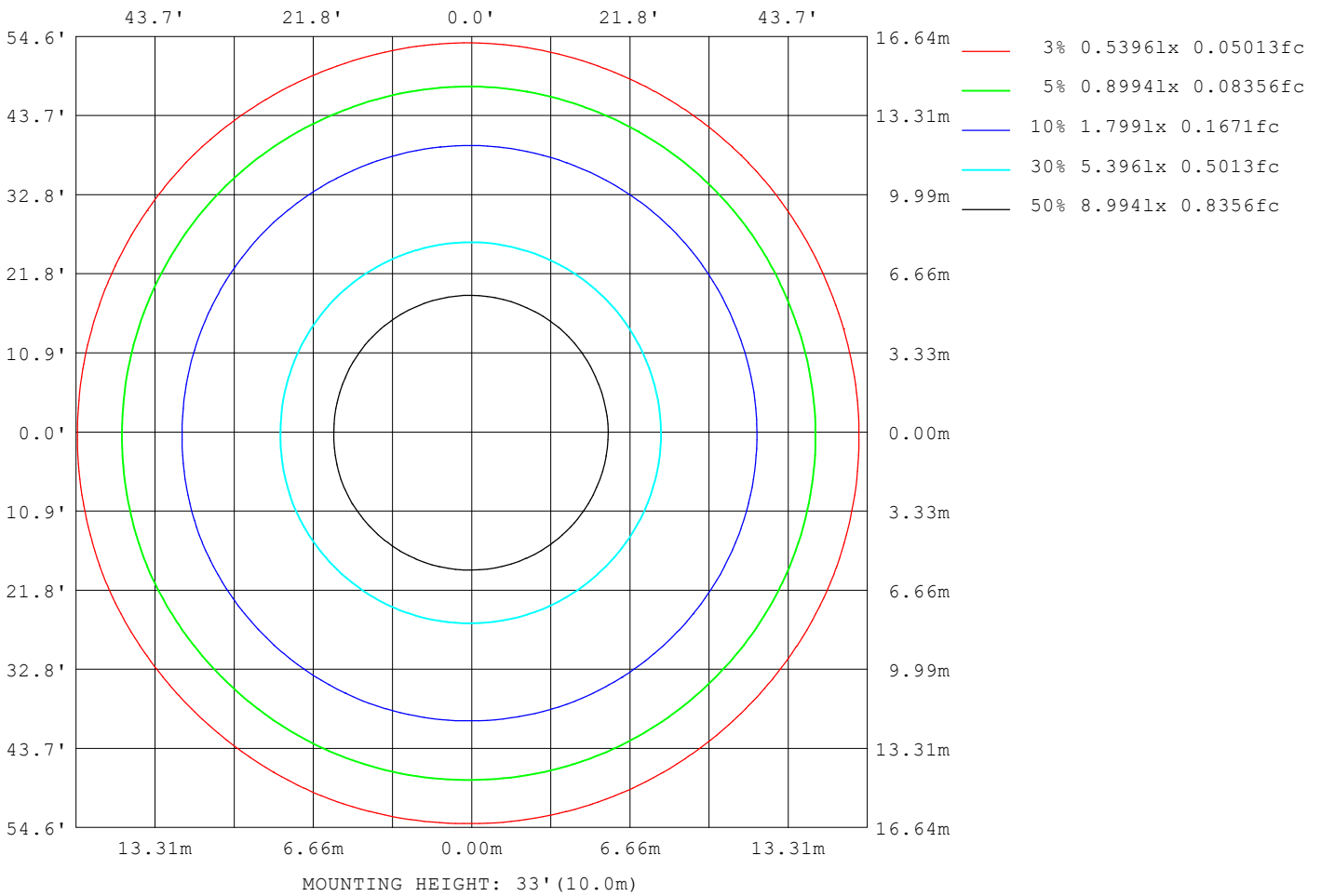
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

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:0.2422A P:28.722W PF:0.9919 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3565.45x1 lm		
NAME: DL254-8-35W-M-A5C5-HO	TYPE: 30W	WEIGHT:
SPEC.: 5000K	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:0.2422A P:28.722W PF:0.9919 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3565.45x1 lm		
NAME: DL254-8-35W-M-A5C5-HO	TYPE: 30W	WEIGHT:
SPEC.: 5000K	DIM.: 0.26	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.20	Shielding Angle:

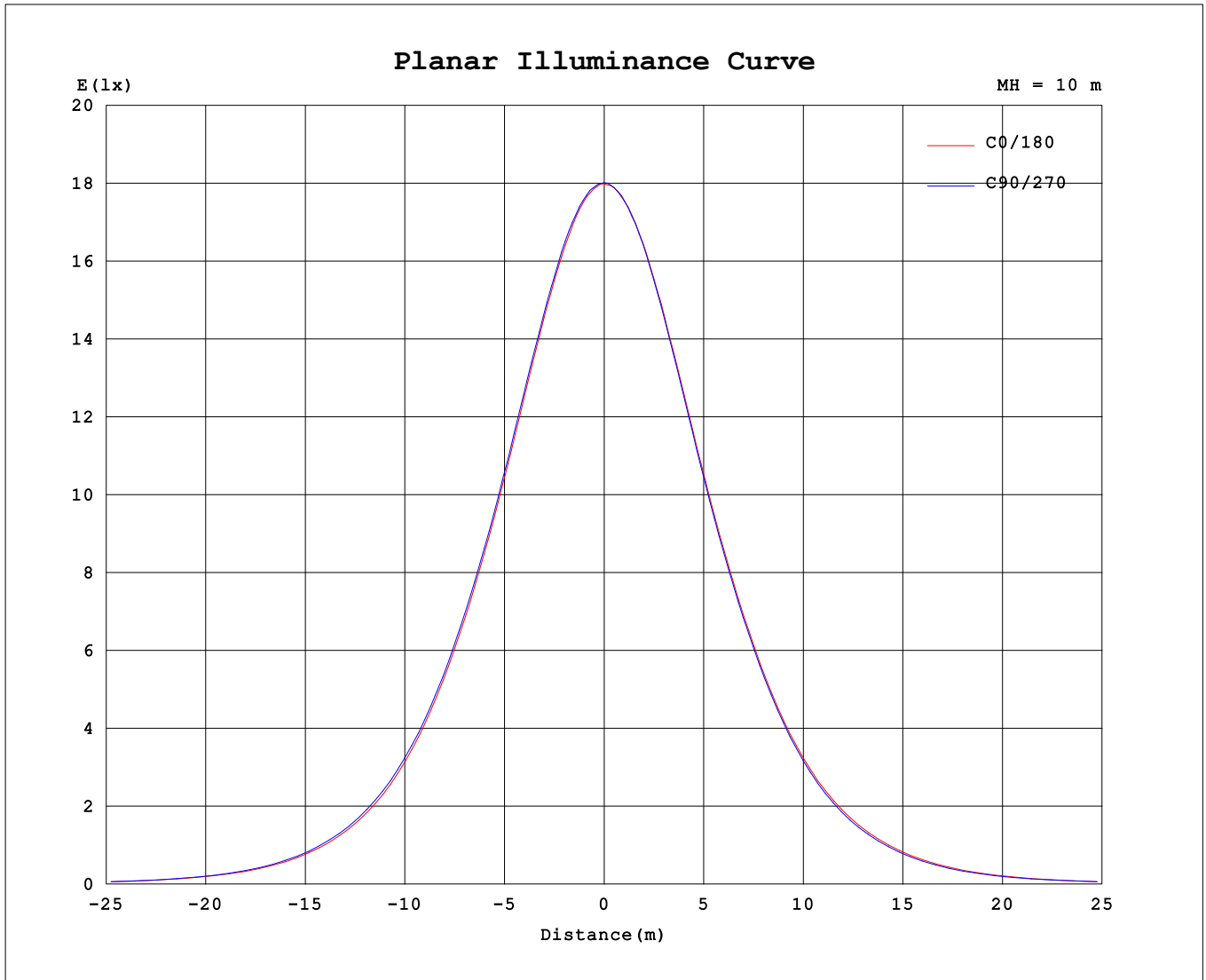
AvgL	cd/m2
L_0~180 (65) av	14286
L_0~180 (75) av	7727
L_0~180 (85) av	6703
L_90~270 (65) av	14160
L_90~270 (75) av	7783
L_90~270 (85) av	5820
L_45 (65) av	14248
L_45 (75) av	7788
L_45 (85) av	6401

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:

