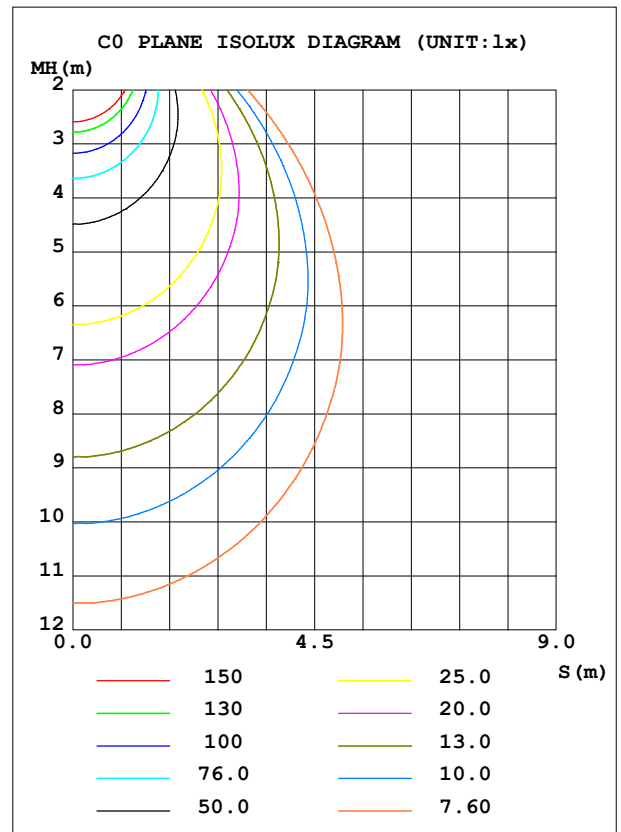
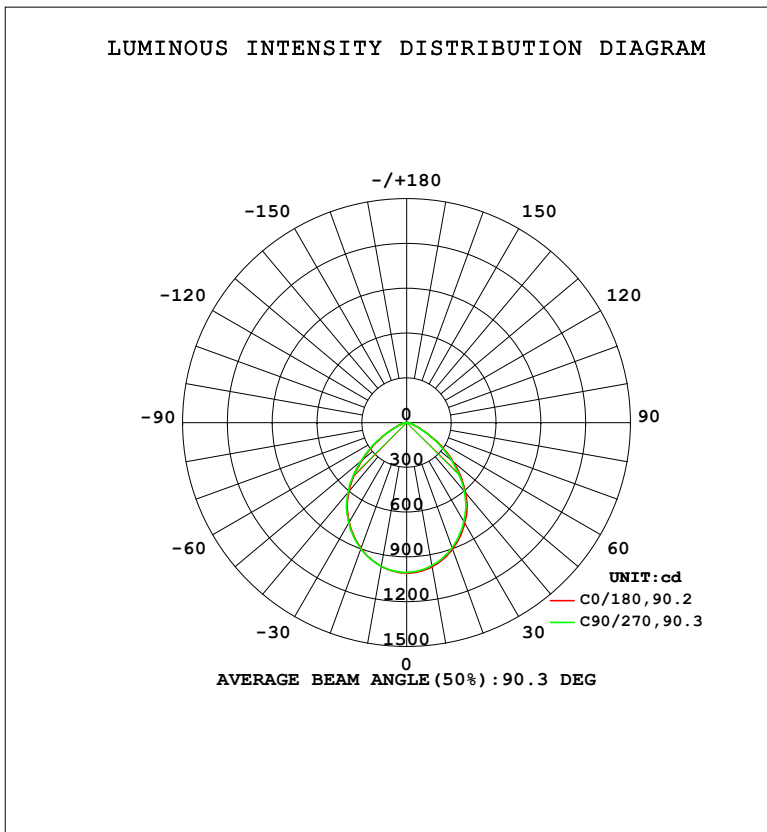


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.49V I:0.1287A P:15.081W PF:0.9808 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1987.44x1 lm		
NAME: DL254-8-35W-M-A5C5-HO	TYPE: 16W	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)	1008	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)	1987.4	<input type="checkbox"/> UP, DN (C0-180)	0.0, 50.3
NOMINAL FLUX (lm)	1987.44	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	977.5	976.2	977.3	977.4	981.1	977.0	972.6	969.5	0- 10	94.46	94.46	4.75,4.75
20	895.6	896.2	899.2	902.5	901.6	896.9	891.1	884.8	10- 20	265.1	359.6	18.1,18.1
30	770.6	772.3	776.5	781.2	778.8	774.2	767.0	759.8	20- 30	385.6	745.2	37.5,37.5
40	603.0	605.1	613.8	619.7	615.5	610.5	601.6	594.3	30- 40	434.4	1180	59.4,59.4
50	388.7	394.4	402.5	409.9	407.9	400.4	392.0	384.5	40- 50	388.1	1568	78.9,78.9
60	183.1	186.7	191.5	195.9	197.7	193.5	185.2	177.7	50- 60	258.7	1826	91.9,91.9
70	54.92	54.97	56.42	58.21	58.91	58.95	56.13	54.33	60- 70	111.0	1937	97.5,97.5
80	22.54	22.76	23.27	23.95	23.97	24.03	23.36	23.28	70- 80	38.80	1976	99.4,99.4
90	0.5310	0.5375	0.5047	0.5047	0.9505	0.9177	0.9177	0.9309	80- 90	11.18	1987	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): 1385.6 lm

%lum = 69.7%

%lamp = 69.7%

Conical surface Flux(130deg): 1897.3 lm

%lum = 95.5%

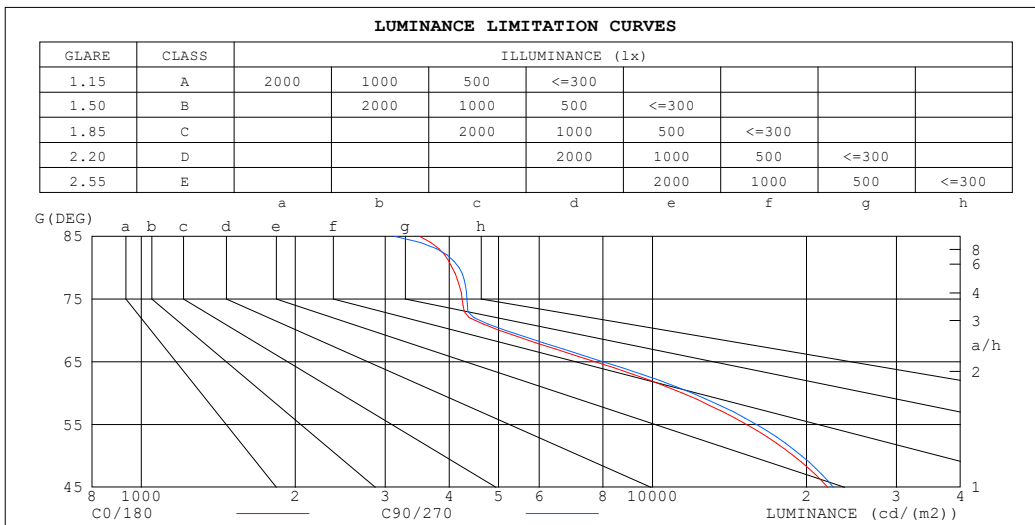
%lamp = 95.5%

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:119.49V I:0.1287A P:15.081W PF:0.9808 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1987.44x1 lm		
NAME: DL254-8-35W-M-A5C5-HO	TYPE: 16W	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	3501	3123
80	4057	4187
75	4243	4335
70	5018	5155
65	7723	7994
60	11444	11972
55	15275	15975
50	18895	19569
45	22015	22574

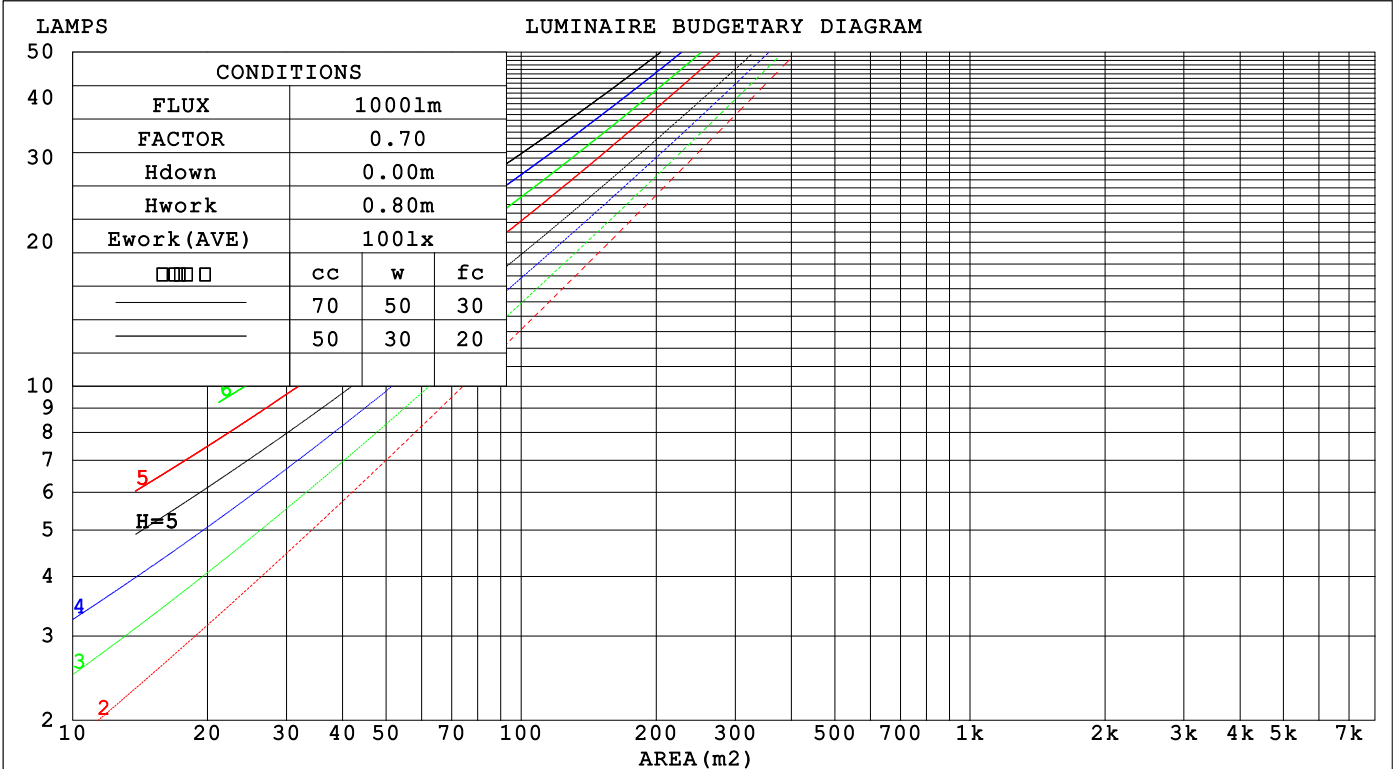
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2023-06-28

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:119.49V I:0.1287A P:15.081W PF:0.9808 Freq:60.01Hz		
UTHDI:0.00% ITHDI:0.00% KDisp:0 Lamp Flux:1987.44x1 lm		
NAME: DL254-8-35W-M-A5C5-HO	TYPE: 16W	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	.58	.51	.45	.58	.50	.45	.56	.49	.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	.36	.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:119.49V I:0.1287A P:15.081W PF:0.9808 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1987.44x1 lm		
NAME: DL254-8-35W-M-A5C5-HO	TYPE: 16W	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	.227 .121 .036	.221 .119 .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 .051	.121 .077 .045	.083 .054 .032	.048 .032 .019	.016 .010 .006	
6.0	.134 .081 .043	.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	.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:119.49V I:0.1287A P:15.081W PF:0.9808 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1987.44x1 lm		
NAME: DL254-8-35W-M-A5C5-HO	TYPE: 16W	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	21.7	23.0	22.0	23.2	23.4	21.8	23.2	22.1	23.4	23.6
3H	21.9	23.1	22.2	23.3	23.6	22.0	23.2	22.3	23.5	23.7
4H	21.9	23.1	22.2	23.3	23.5	22.0	23.2	22.3	23.4	23.7
6H	21.9	23.0	22.3	23.3	23.5	22.1	23.1	22.4	23.4	23.7
8H	21.9	23.0	22.3	23.2	23.5	22.1	23.1	22.4	23.4	23.7
12H	21.9	22.9	22.3	23.2	23.5	22.0	23.0	22.4	23.3	23.6
4H 2H	21.8	23.0	22.1	23.2	23.5	21.9	23.1	22.2	23.3	23.6
3H	22.1	23.1	22.4	23.4	23.7	22.2	23.2	22.5	23.5	23.8
4H	22.2	23.1	22.5	23.4	23.7	22.3	23.2	22.6	23.5	23.8
6H	22.2	23.0	22.6	23.4	23.7	22.4	23.2	22.8	23.5	23.9
8H	22.3	23.0	22.7	23.4	23.7	22.4	23.1	22.8	23.5	23.9
12H	22.3	23.0	22.7	23.3	23.7	22.4	23.1	22.8	23.4	23.8
8H 4H	22.1	22.9	22.5	23.2	23.6	22.2	23.0	22.6	23.3	23.7
6H	22.3	22.9	22.7	23.3	23.7	22.4	23.0	22.8	23.4	23.8
8H	22.4	22.9	22.8	23.3	23.7	22.5	23.0	22.9	23.4	23.9
12H	22.4	22.9	22.9	23.3	23.8	22.5	23.0	23.0	23.4	23.9
12H 4H	22.1	22.8	22.5	23.1	23.5	22.2	22.9	22.6	23.3	23.7
6H	22.3	22.8	22.7	23.2	23.7	22.4	22.9	22.8	23.3	23.8
8H	22.4	22.8	22.8	23.3	23.7	22.5	22.9	22.9	23.4	23.8

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, 1987 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 2.4)
 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:119.49V I:0.1287A P:15.081W PF:0.9808 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1987.44x1 lm		
NAME: DL254-8-35W-M-A5C5-HO	TYPE: 16W	WEIGHT:
SPEC.: 5000K	DIM.: 0.26	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.20	Shielding Angle:

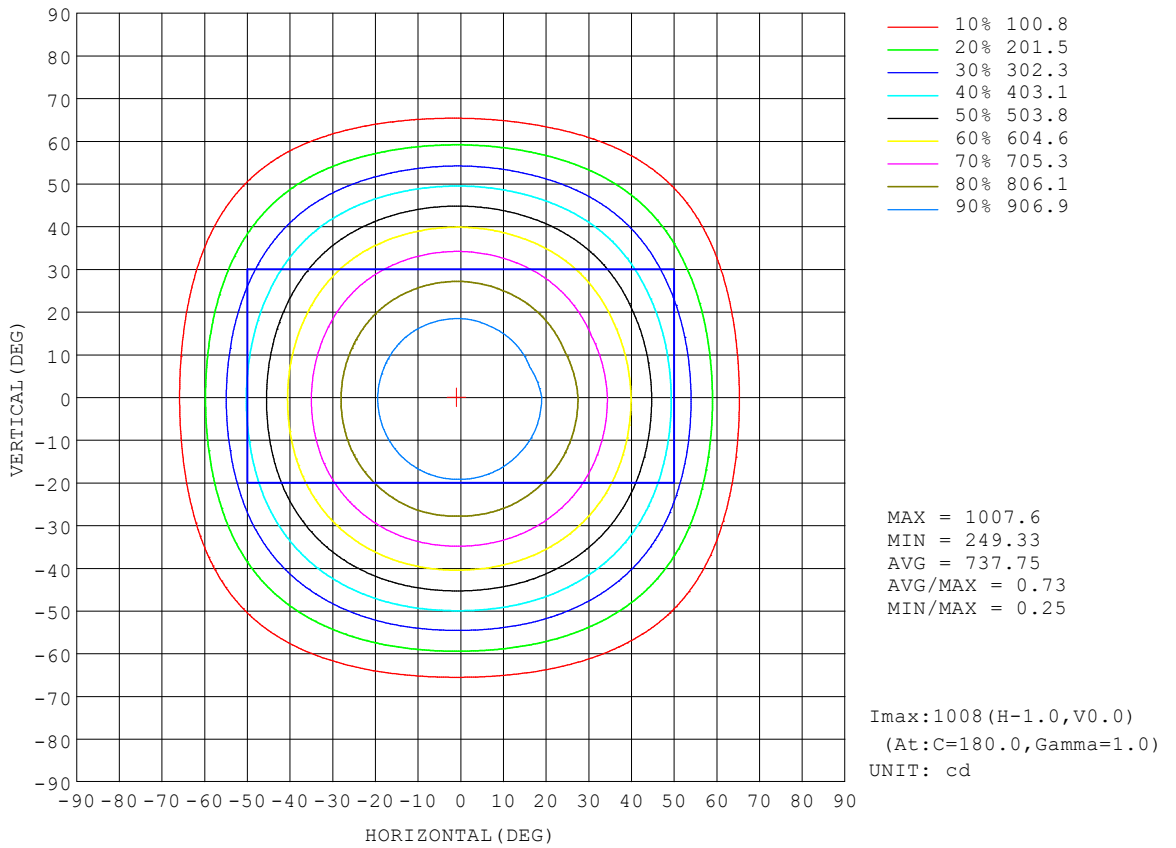
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	66	55	49	65	55	49	64	55	49	43
0.80	76	66	60	75	66	60	73	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:119.49V I:0.1287A P:15.081W PF:0.9808 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1987.44x1 lm		
NAME: DL254-8-35W-M-A5C5-HO	TYPE: 16W	WEIGHT:
SPEC.: 5000K	DIM.: 0.26	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.20	Shielding Angle:



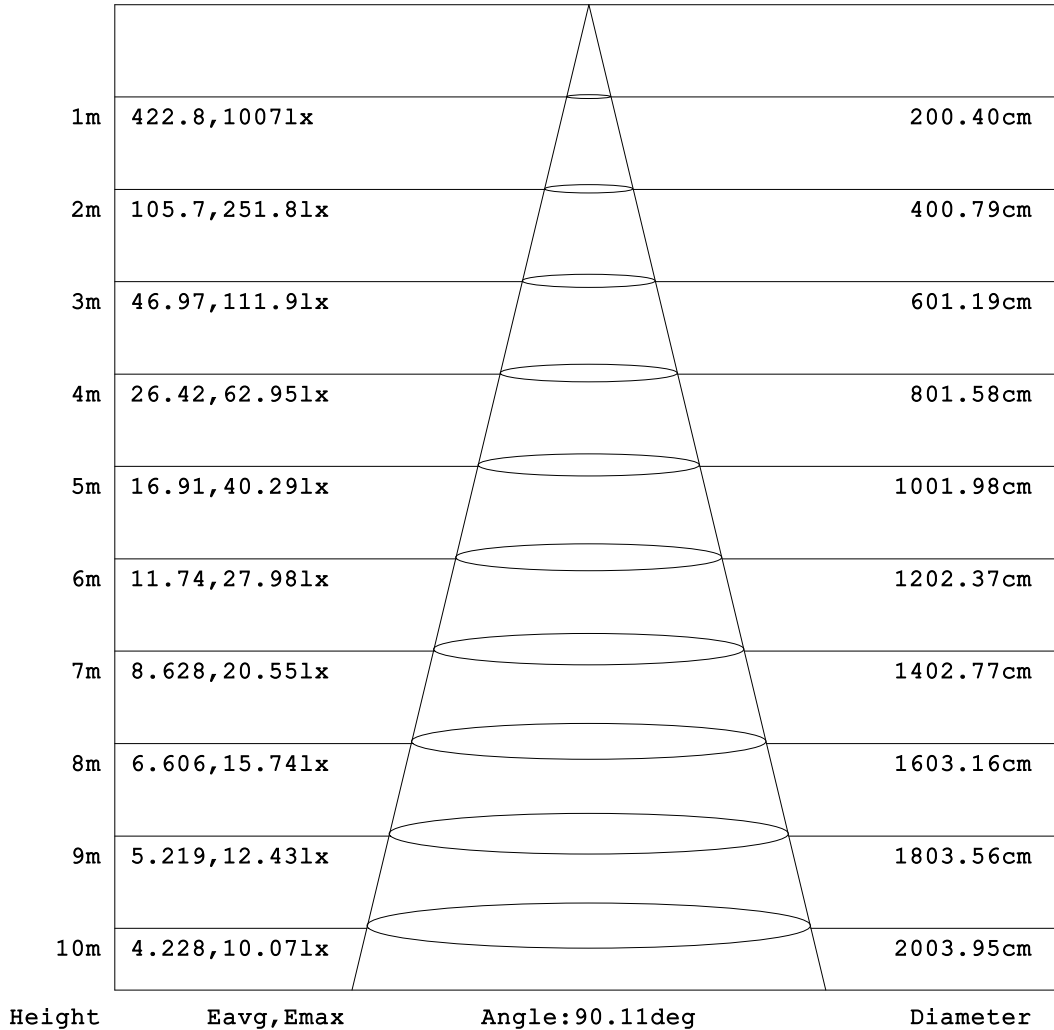
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2023-06-28

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:119.49V I:0.1287A P:15.081W PF:0.9808 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1987.44x1 lm		
NAME: DL254-8-35W-M-A5C5-HO	TYPE: 16W	WEIGHT:
SPEC.: 5000K	DIM.: 0.26	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.20	Shielding Angle:

Flux out:1424 lm



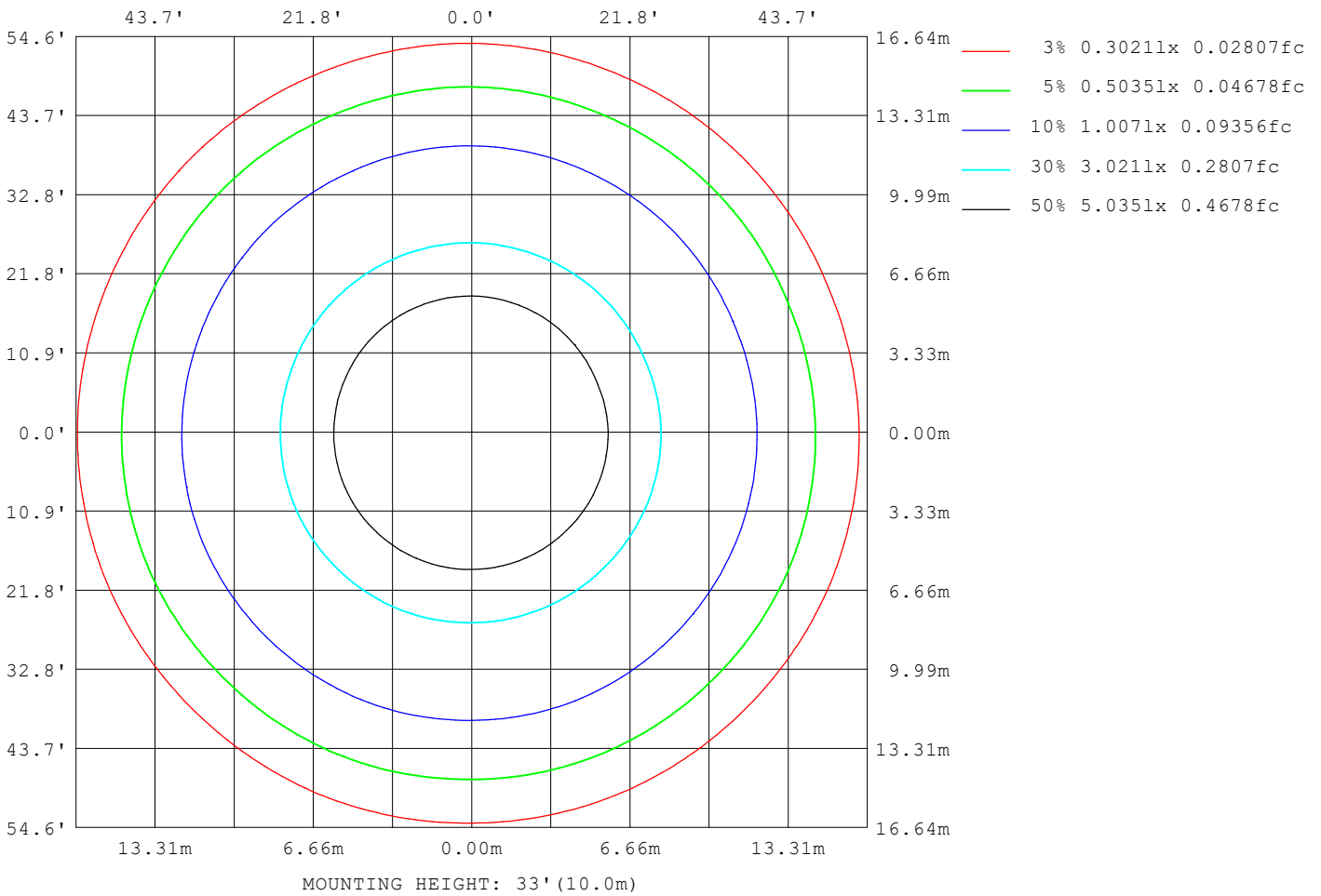
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:119.49V I:0.1287A P:15.081W PF:0.9808 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1987.44x1 lm		
NAME: DL254-8-35W-M-A5C5-HO	TYPE: 16W	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:119.49V I:0.1287A P:15.081W PF:0.9808 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1987.44x1 lm		
NAME: DL254-8-35W-M-A5C5-HO	TYPE: 16W	WEIGHT:
SPEC.: 5000K	DIM.: 0.26	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.20	Shielding Angle:

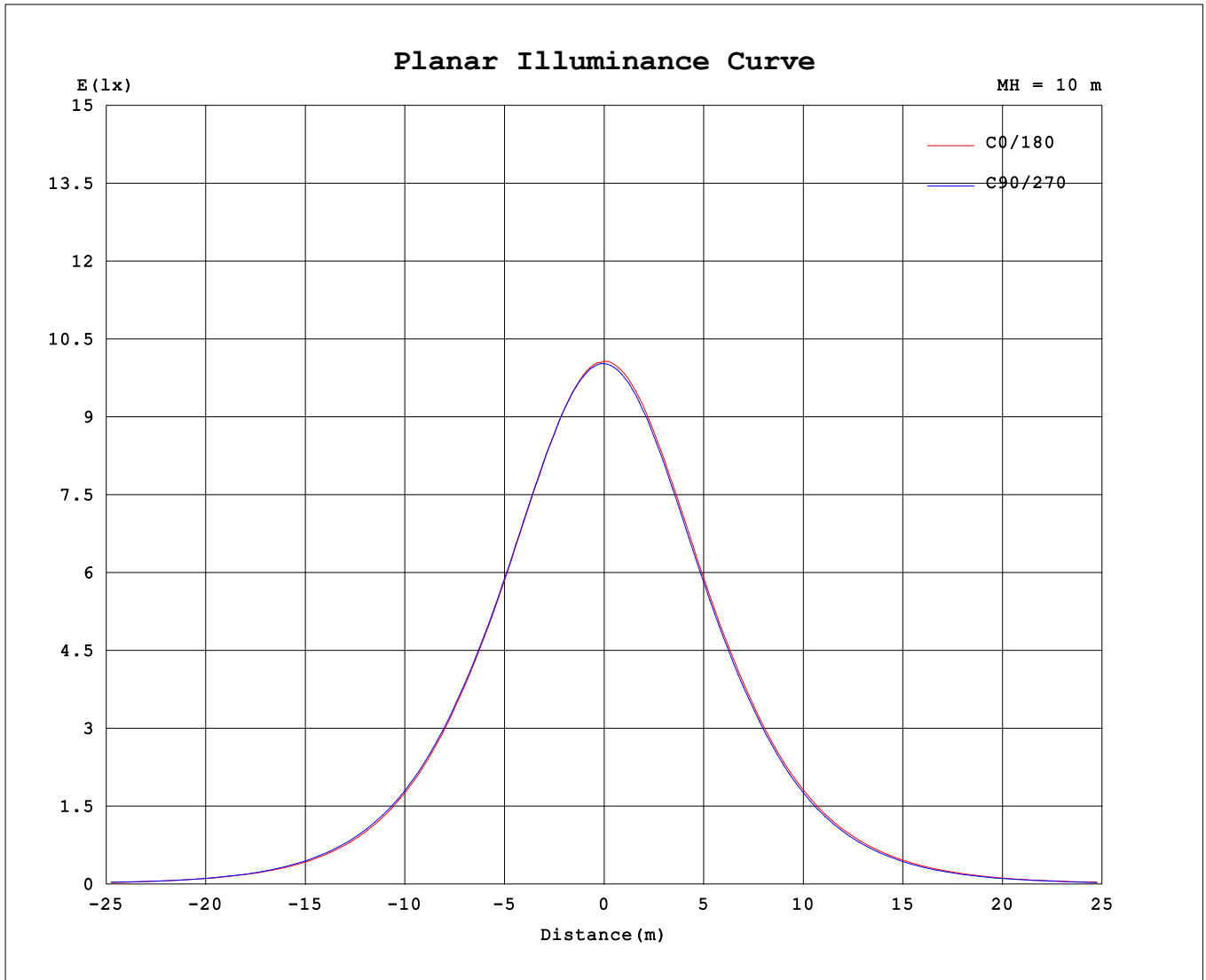
AvgL	cd/m2
L_0~180 (65) av	8017
L_0~180 (75) av	4326
L_0~180 (85) av	3743
L_90~270 (65) av	7878
L_90~270 (75) av	4328
L_90~270 (85) av	3217
L_45 (65) av	7941
L_45 (75) av	4337
L_45 (85) av	3541

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:119.49V I:0.1287A P:15.081W PF:0.9808 Freq:60.01Hz
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:1987.44x1 lm
NAME: DL254-8-35W-M-A5C5-HO TYPE: 16W WEIGHT:
SPEC.: 5000K DIM.: 0.26 SERIAL No.: 1
MFR.: Lotus LED Lights SUR.: 0.20 Shielding Angle:

Table--1

UNIT: cd

Table with 18 columns (C (DEG) and 17 numerical values) and 18 rows (0 to 90). Values represent luminous intensity in cd for 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: