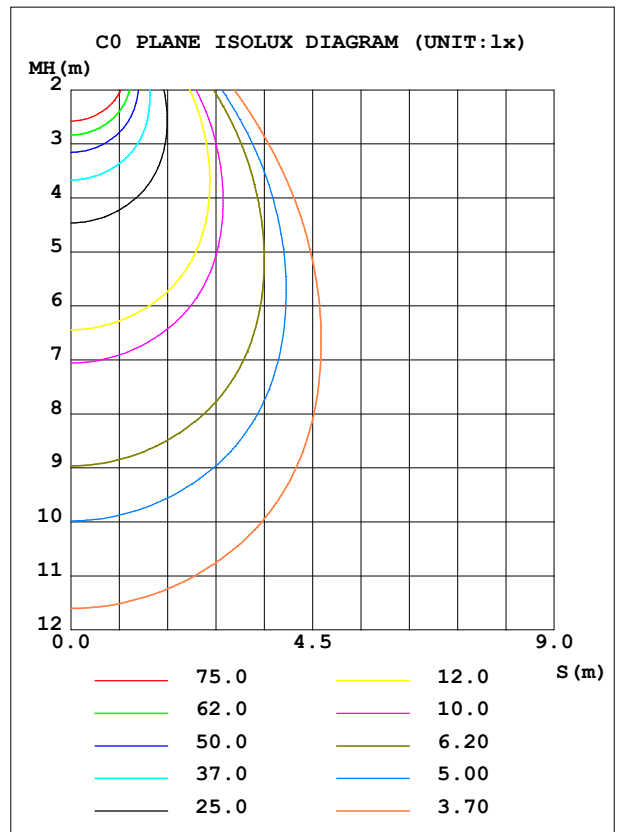
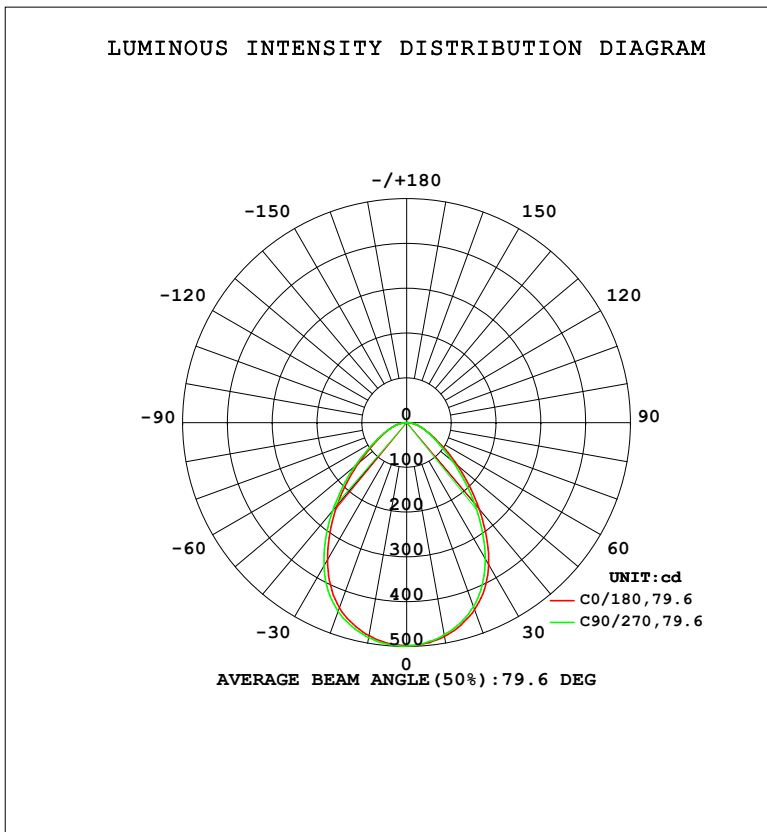


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.48V I:0.0670A P:7.6201W PF:0.9519 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:886.796x1 lm		
NAME: DL254-4-16W-M-A5C5	TYPE: 8W	WEIGHT:
SPEC.: 5000K	DIM.: 0.295	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.10	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	DL254-4-16W-M-A5C5	Imax (cd)	499.4	S/MH (C0/180)	1.09
NOMINAL POWER (W)	8	LOR (%)	100.0	S/MH (C90/270)	1.09
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	886.80	<input type="checkbox"/> UP, DN (C0-180)	0.0, 51.0
NOMINAL FLUX (lm)	886.796	CIE CLASS	DIRECT	<input type="checkbox"/> UP, DN (C180-360)	0.0, 49.0
LAMPS INSIDE	1	<input type="checkbox"/> up (%)	0.0	CIBSE SHR NOM	1.00
TEST VOLTAGE (V)	120	<input type="checkbox"/> down (%)	100.0	CIBSE SHR MAX	1.15



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3°C  
 Operators: DAMIN  
 Test Date: 2023-07-06

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	483.0	486.0	487.5	488.1	484.9	483.9	480.9	480.8	0- 10	46.91	46.91	5.29,5.29
20	439.5	442.8	448.5	449.1	444.4	441.6	436.6	436.3	10- 20	131.5	178.4	20.1,20.1
30	353.5	362.0	369.3	374.2	367.0	358.8	351.5	351.9	20- 30	186.5	364.9	41.1,41.1
40	242.0	252.7	257.7	262.2	251.7	244.3	236.3	230.2	30- 40	190.3	555.2	62.6,62.6
50	139.6	147.2	150.2	147.9	148.0	141.6	133.2	129.7	40- 50	147.9	703.1	79.3,79.3
60	72.64	75.75	77.02	75.64	75.45	75.84	70.50	71.09	50- 60	93.27	796.4	89.8,89.8
70	38.86	39.53	40.03	40.03	39.24	39.11	38.74	38.47	60- 70	54.37	850.7	95.9,95.9
80	16.34	16.77	16.45	17.28	17.24	16.67	15.05	16.15	70- 80	29.33	880.1	99.2,99.2
90	0.2425	0.2425	0.2032	0.2032	0.4345	0.3802	0.4130	0.3737	80- 90	6.717	886.8	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): 636.08 lm

%lum = 71.7%

%lamp = 71.7%

Conical surface Flux(130deg): 827.35 lm

%lum = 93.3%

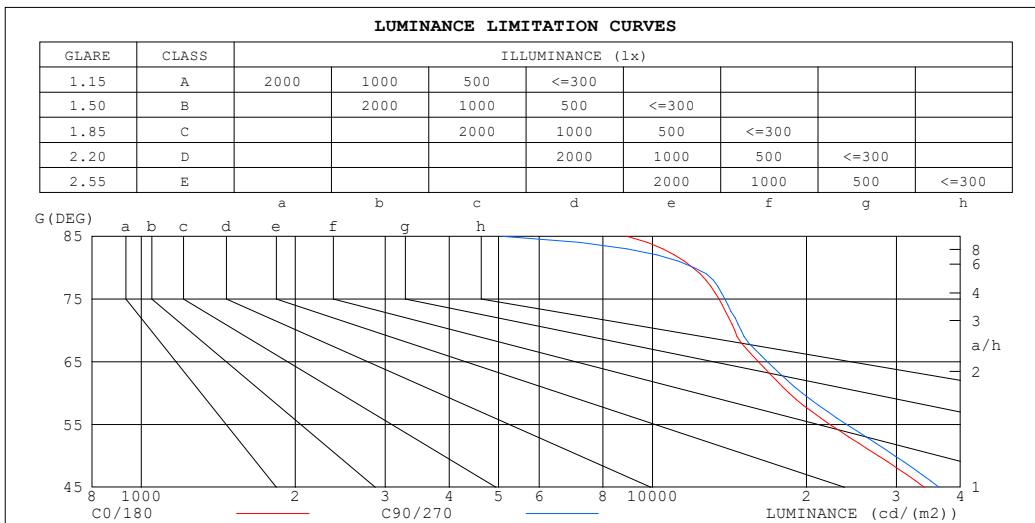
%lamp = 93.3%

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:DAMIN  
 Test Date:2023-07-06

□ 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:119.48V I:0.0670A P:7.6201W PF:0.9519 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:886.796x1 lm		
NAME: DL254-4-16W-M-A5C5	TYPE: 8W	WEIGHT:
SPEC.: 5000K	DIM.: 0.295	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.10	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	8906	5082
80	11987	12066
75	13491	13845
70	14475	14910
65	16107	16784
60	18508	19623
55	22226	23980
50	27668	29768
45	34008	36331

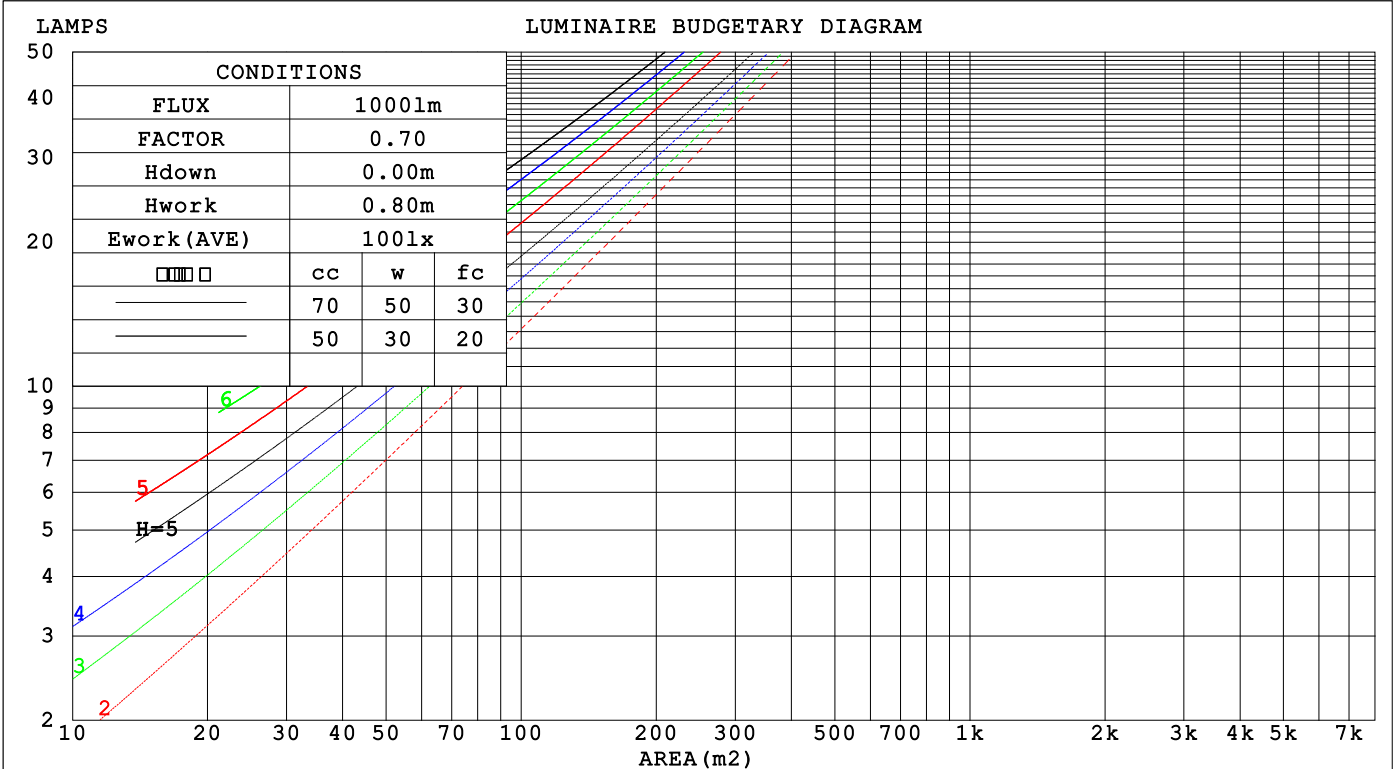
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:DAMIN  
 Test Date:2023-07-06

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:119.48V I:0.0670A P:7.6201W PF:0.9519 Freq:60.01Hz		
UTHdi:0.00% ITHdi:0.00% KDisp:0 Lamp Flux:886.796x1 lm		
NAME: DL254-4-16W-M-A5C5	TYPE: 8W	WEIGHT:
SPEC.: 5000K	DIM.: 0.295	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.10	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	.86	.94	.89	.85	.91	.86	.83	.88	.84	.81	.85	.82	.79	.77
3.0	.86	.79	.74	.85	.78	.73	.82	.77	.72	.79	.75	.71	.77	.73	.70	.68
4.0	.78	.71	.65	.77	.70	.64	.74	.68	.64	.72	.67	.63	.70	.66	.62	.60
5.0	.71	.63	.57	.70	.63	.57	.68	.62	.57	.66	.60	.56	.64	.59	.55	.54
6.0	.65	.57	.51	.64	.57	.51	.62	.56	.51	.61	.55	.50	.59	.54	.50	.48
7.0	.60	.52	.46	.59	.51	.46	.57	.51	.46	.56	.50	.46	.55	.49	.45	.44
8.0	.55	.47	.42	.54	.47	.42	.53	.47	.42	.52	.46	.42	.51	.45	.41	.40
9.0	.51	.44	.39	.50	.43	.38	.49	.43	.38	.48	.42	.38	.47	.42	.38	.36
10.0	.47	.40	.35	.47	.40	.35	.46	.40	.35	.45	.39	.35	.44	.39	.35	.33



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:DAMIN  
 Test Date:2023-07-06

□ 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:119.48V I:0.0670A P:7.6201W PF:0.9519 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:886.796x1 lm		
NAME: DL254-4-16W-M-A5C5	TYPE: 8W	WEIGHT:
SPEC.: 5000K	DIM.: 0.295	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.10	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	.250 .142 .045	.243 .139 .044	.230 .132 .042	.218 .126 .040	.207 .120 .039	
2.0	.239 .131 .040	.233 .129 .040	.222 .124 .038	.212 .119 .037	.202 .114 .036	
3.0	.225 .120 .036	.220 .118 .036	.210 .114 .035	.201 .110 .034	.193 .107 .033	
4.0	.212 .110 .032	.207 .108 .032	.198 .105 .031	.190 .102 .031	.183 .099 .030	
5.0	.198 .101 .029	.194 .100 .029	.187 .097 .029	.180 .095 .028	.173 .092 .028	
6.0	.186 .093 .027	.183 .092 .027	.176 .090 .026	.170 .088 .026	.164 .086 .026	
7.0	.175 .087 .025	.172 .086 .024	.166 .084 .024	.161 .082 .024	.155 .081 .024	
8.0	.166 .081 .023	.163 .080 .023	.157 .079 .022	.152 .077 .022	.147 .076 .022	
9.0	.157 .076 .021	.154 .075 .021	.149 .074 .021	.144 .072 .021	.140 .071 .021	
10.0	.148 .071 .020	.146 .071 .020	.142 .069 .020	.137 .068 .019	.134 .067 .019	

<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 .081	.134 .098 .070	.092 .068 .049	.053 .040 .029	.017 .013 .009	
4.0	.148 .100 .064	.127 .087 .056	.087 .060 .039	.050 .035 .023	.016 .012 .008	
5.0	.140 .089 .052	.120 .077 .045	.083 .054 .032	.048 .032 .019	.015 .010 .006	
6.0	.133 .081 .043	.114 .070 .037	.079 .049 .027	.046 .029 .016	.015 .009 .005	
7.0	.127 .074 .036	.109 .064 .032	.075 .045 .022	.044 .026 .013	.014 .009 .004	
8.0	.121 .068 .031	.104 .059 .027	.072 .041 .019	.042 .024 .012	.014 .008 .004	
9.0	.115 .063 .027	.099 .054 .024	.069 .038 .017	.040 .023 .010	.013 .007 .003	
10.0	.110 .058 .024	.095 .051 .021	.066 .036 .015	.038 .021 .009	.012 .007 .003	

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:DAMIN  
 Test Date:2023-07-06

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:119.48V I:0.0670A P:7.6201W PF:0.9519 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:886.796x1 lm		
NAME: DL254-4-16W-M-A5C5	TYPE: 8W	WEIGHT:
SPEC.: 5000K	DIM.: 0.295	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.10	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	22.9	24.2	23.1	24.4	24.6	23.2	24.5	23.4	24.6	24.8
3H	23.6	24.8	23.9	25.0	25.2	23.8	25.0	24.1	25.2	25.5
4H	23.9	25.0	24.2	25.3	25.5	24.1	25.2	24.4	25.5	25.7
6H	24.1	25.2	24.4	25.4	25.7	24.3	25.4	24.7	25.7	25.9
8H	24.2	25.2	24.5	25.5	25.8	24.4	25.4	24.7	25.7	26.0
12H	24.2	25.2	24.5	25.5	25.8	24.4	25.4	24.7	25.6	25.9
4H 2H	23.2	24.3	23.5	24.5	24.8	23.4	24.5	23.7	24.7	25.0
3H	24.0	25.0	24.4	25.3	25.6	24.2	25.2	24.6	25.5	25.8
4H	24.5	25.4	24.8	25.7	26.0	24.7	25.5	25.0	25.9	26.2
6H	24.8	25.6	25.2	26.0	26.3	25.0	25.8	25.4	26.1	26.5
8H	24.9	25.7	25.3	26.0	26.4	25.1	25.8	25.5	26.2	26.6
12H	25.0	25.7	25.4	26.1	26.4	25.1	25.8	25.5	26.1	26.5
8H 4H	24.6	25.3	25.0	25.7	26.1	24.8	25.5	25.2	25.9	26.3
6H	25.1	25.7	25.5	26.1	26.5	25.3	25.9	25.7	26.3	26.7
8H	25.3	25.8	25.7	26.2	26.7	25.4	25.9	25.8	26.3	26.8
12H	25.4	25.9	25.9	26.3	26.8	25.4	25.9	25.9	26.3	26.8
12H 4H	24.6	25.3	25.0	25.7	26.0	24.8	25.4	25.2	25.8	26.2
6H	25.1	25.7	25.6	26.1	26.5	25.3	25.8	25.7	26.2	26.7
8H	25.3	25.8	25.8	26.2	26.7	25.4	25.9	25.9	26.3	26.8

Variations with the observer position at spacings(CIE Pub.117):		
S = 1.0H	+ 0.5 / - 0.6	+ 0.5 / - 0.6
1.5H	+ 0.3 / - 0.4	+ 0.3 / - 0.3
2.0H	+ 1.1 / - 0.8	+ 1.2 / - 0.8

CIE Pub.117, 886.8 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -0.4)  
 Area: 0.00785 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:2023-07-06	Remarks:

**UTILIZATION FACTORS TABLE**

Test:U:119.48V I:0.0670A P:7.6201W PF:0.9519 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:886.796x1 lm		
NAME: DL254-4-16W-M-A5C5	TYPE: 8W	WEIGHT:
SPEC.: 5000K	DIM.: 0.295	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.10	Shielding Angle:

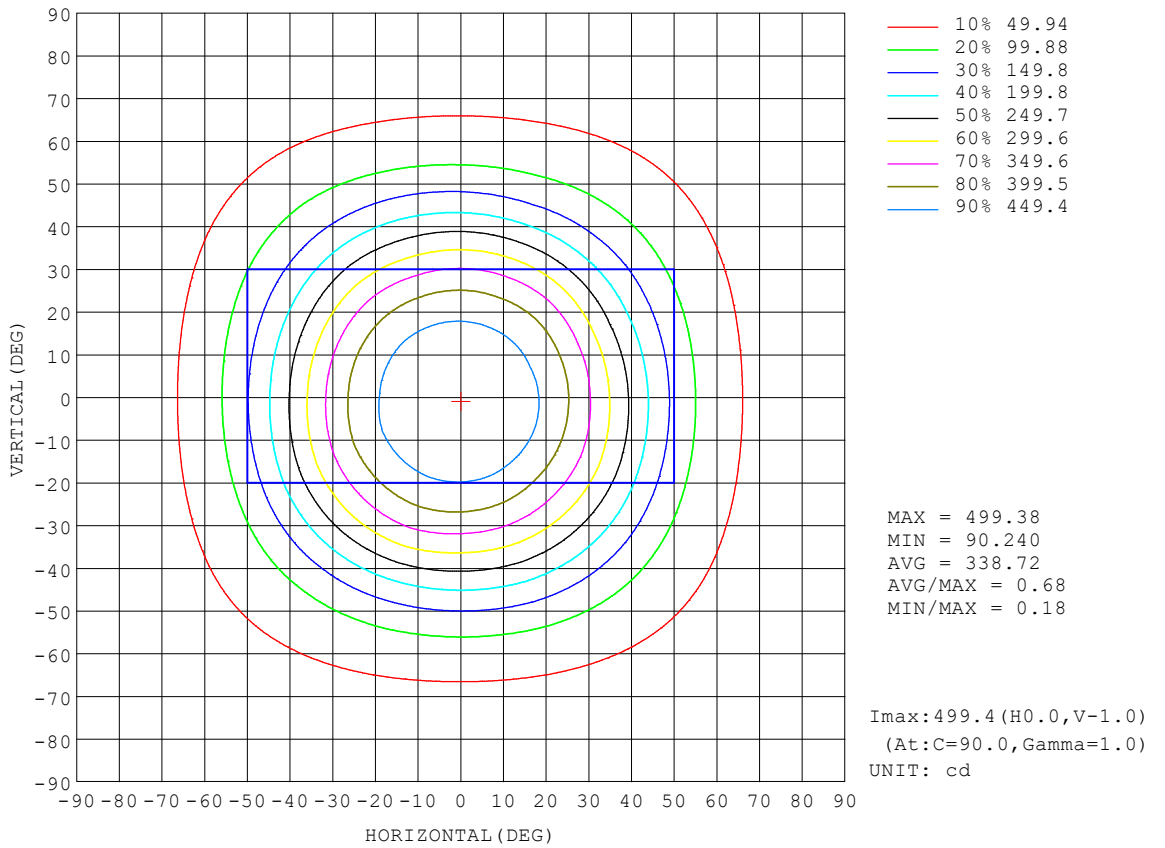
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	68	58	53	67	58	52	66	58	52	47
0.80	78	68	62	77	68	62	75	67	62	56
1.00	85	76	70	84	76	70	82	77	70	64
1.25	91	83	77	90	82	77	88	81	76	70
1.50	96	88	82	94	87	82	91	85	81	75
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	108	104	109	106	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:2023-07-06

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:119.48V I:0.0670A P:7.6201W PF:0.9519 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:886.796x1 lm		
NAME: DL254-4-16W-M-A5C5	TYPE: 8W	WEIGHT:
SPEC.: 5000K	DIM.: 0.295	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.10	Shielding Angle:



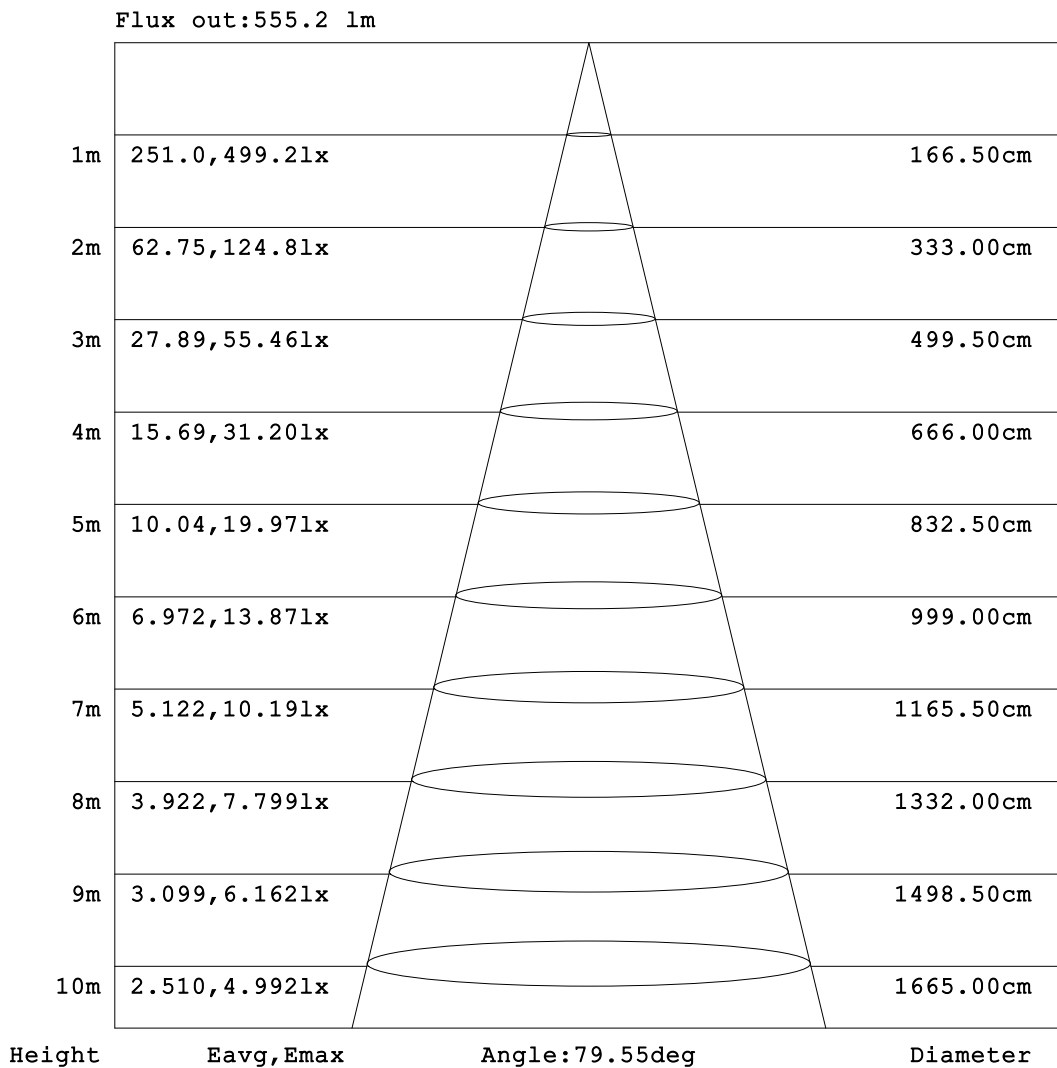
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:DAMIN  
 Test Date:2023-07-06

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:119.48V I:0.0670A P:7.6201W PF:0.9519 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:886.796x1 lm		
NAME: DL254-4-16W-M-A5C5	TYPE: 8W	WEIGHT:
SPEC.: 5000K	DIM.: 0.295	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.10	Shielding Angle:



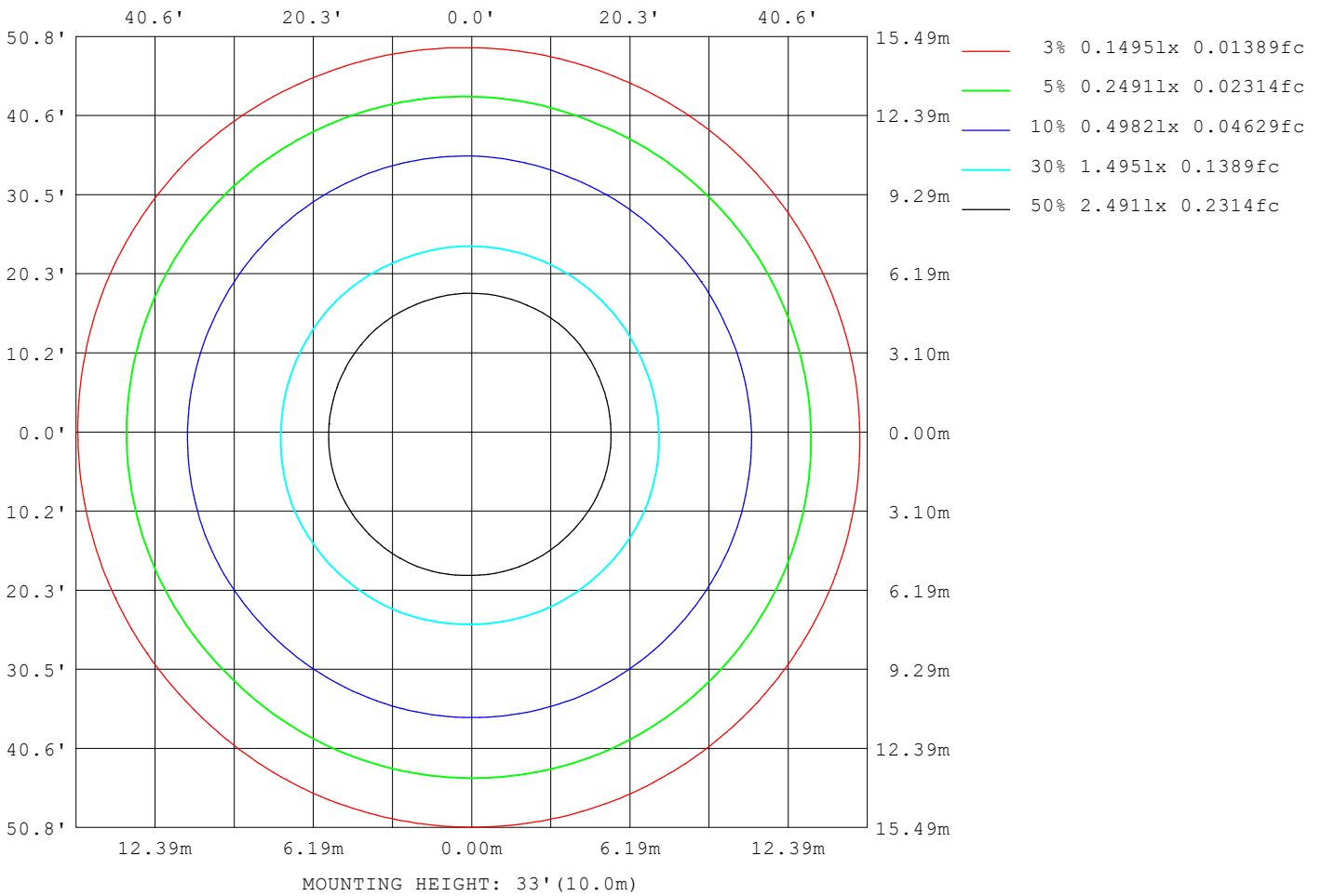
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3°C  
 Operators: DAMIN  
 Test Date: 2023-07-06

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:119.48V I:0.0670A P:7.6201W PF:0.9519 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:886.796x1 lm		
NAME: DL254-4-16W-M-A5C5	TYPE: 8W	WEIGHT:
SPEC.: 5000K	DIM.: 0.295	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.10	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:DAMIN  
 Test Date:2023-07-06

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:119.48V I:0.0670A P:7.6201W PF:0.9519 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:886.796x1 lm		
NAME: DL254-4-16W-M-A5C5	TYPE: 8W	WEIGHT:
SPEC.: 5000K	DIM.: 0.295	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.10	Shielding Angle:

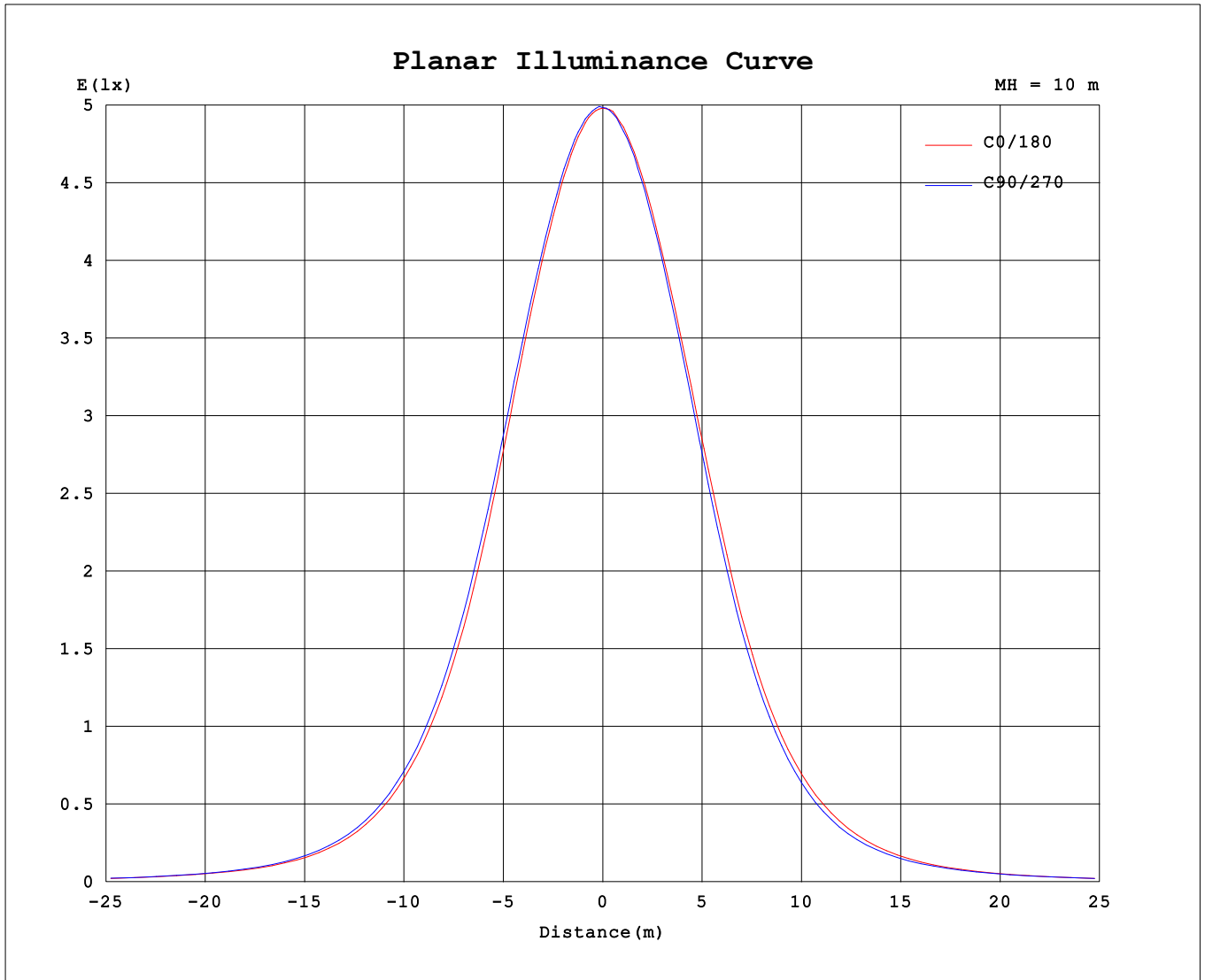
AvgL	cd/m2
L_0~180 (65) av	16281
L_0~180 (75) av	13617
L_0~180 (85) av	9663
L_90~270 (65) av	16350
L_90~270 (75) av	13645
L_90~270 (85) av	4666
L_45 (65) av	16391
L_45 (75) av	13673
L_45 (85) av	6934

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3℃  
 Operators:DAMIN  
 Test Date:2023-07-06

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: 2023-07-06

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:

