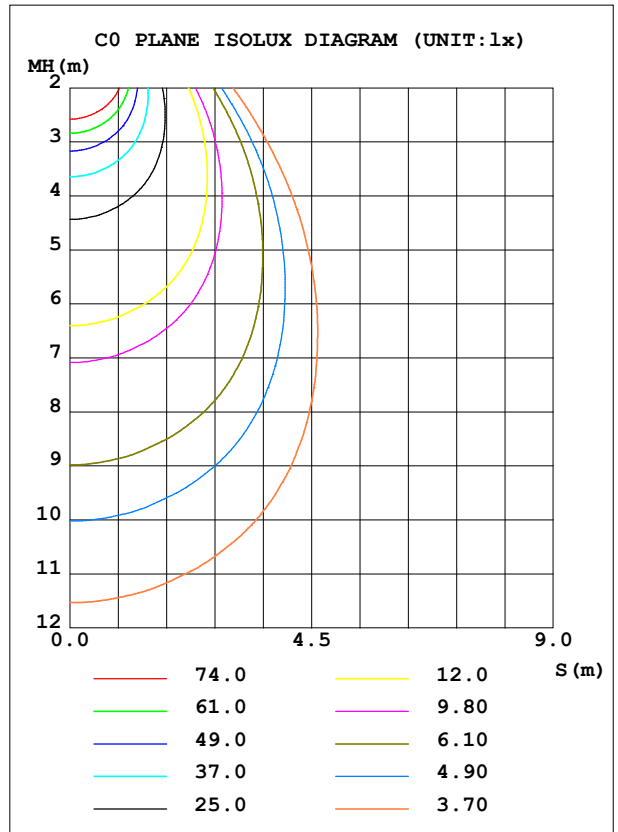
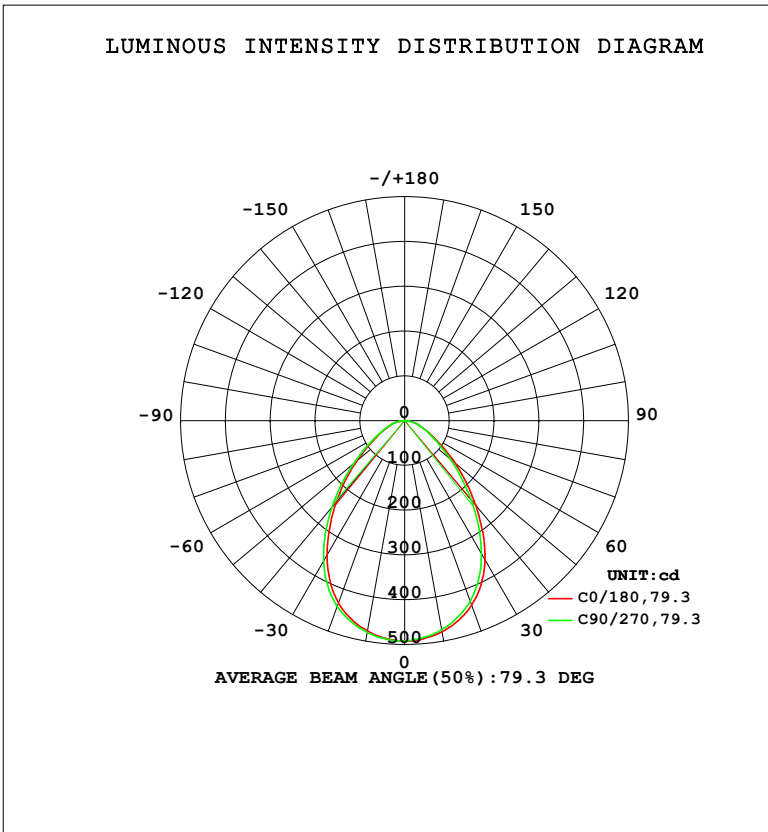


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.43V I:0.0673A P:7.6464W PF:0.9516 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:871.233x1 lm		
NAME: DL254-4-16W-M-A5C5	TYPE: 8W	WEIGHT:
SPEC.: 4000K	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)	492.1	S/MH (C0/180)	1.09
NOMINAL POWER (W)	8	LOR (%)	100.0	S/MH (C90/270)	1.08
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	871.23	<input type="checkbox"/> UP, DN (C0-180)	0.0,51.0
NOMINAL FLUX (lm)	871.233	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	476.6	478.6	480.5	480.9	478.9	476.7	473.9	473.2	0- 10	46.25	46.25	5.31,5.31
20	433.3	435.9	441.5	441.1	438.2	433.6	428.9	427.9	10- 20	129.4	175.7	20.2,20.2
30	346.2	354.8	362.2	367.0	359.2	351.2	343.1	343.1	20- 30	182.8	358.5	41.2,41.2
40	238.4	248.4	252.9	256.8	246.8	238.9	231.2	224.6	30- 40	186.2	544.7	62.5,62.5
50	138.6	145.9	149.0	146.0	146.7	139.8	131.5	128.0	40- 50	145.6	690.3	79.2,79.2
60	71.74	74.94	76.10	74.49	74.61	74.99	69.37	69.96	50- 60	92.38	782.7	89.8,89.8
70	38.04	38.62	39.07	39.06	38.44	38.22	37.84	37.52	60- 70	53.33	836.0	96,96
80	15.99	16.38	16.08	16.91	16.85	16.28	14.68	15.76	70- 80	28.65	864.7	99.2,99.2
90	0.2360	0.2294	0.1967	0.1967	0.4279	0.3736	0.3999	0.3671	80- 90	6.565	871.2	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): 624.16 lm

%lum = 71.6%

%lamp = 71.6%

Conical surface Flux(130deg): 813.14 lm

%lum = 93.3%

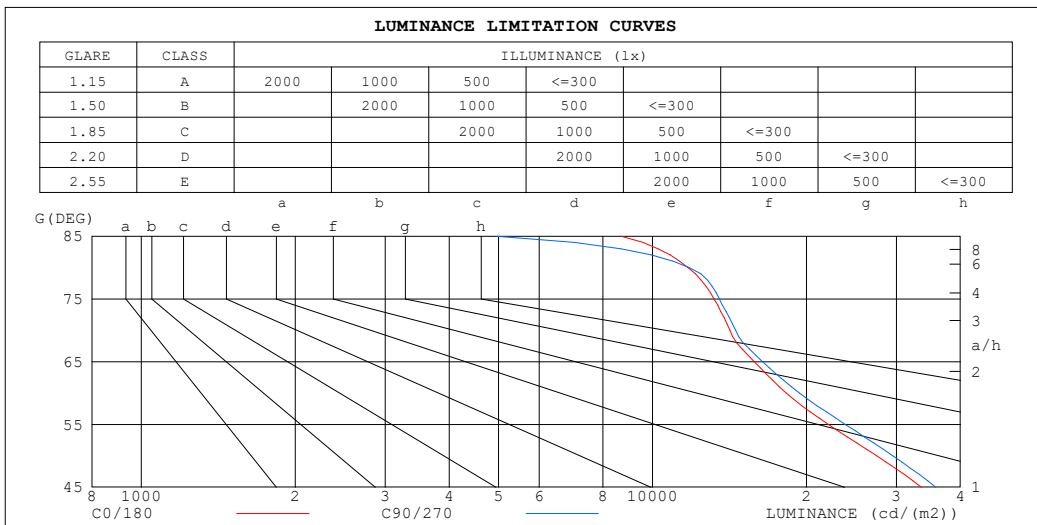
%lamp = 93.3%

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:119.43V I:0.0673A P:7.6464W PF:0.9516 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:871.233x1 lm		
NAME: DL254-4-16W-M-A5C5	TYPE: 8W	WEIGHT:
SPEC.: 4000K	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	8699	4958
80	11727	11796
75	13193	13513
70	14167	14551
65	15809	16412
60	18278	19389
55	22084	23826
50	27459	29530
45	33569	35834

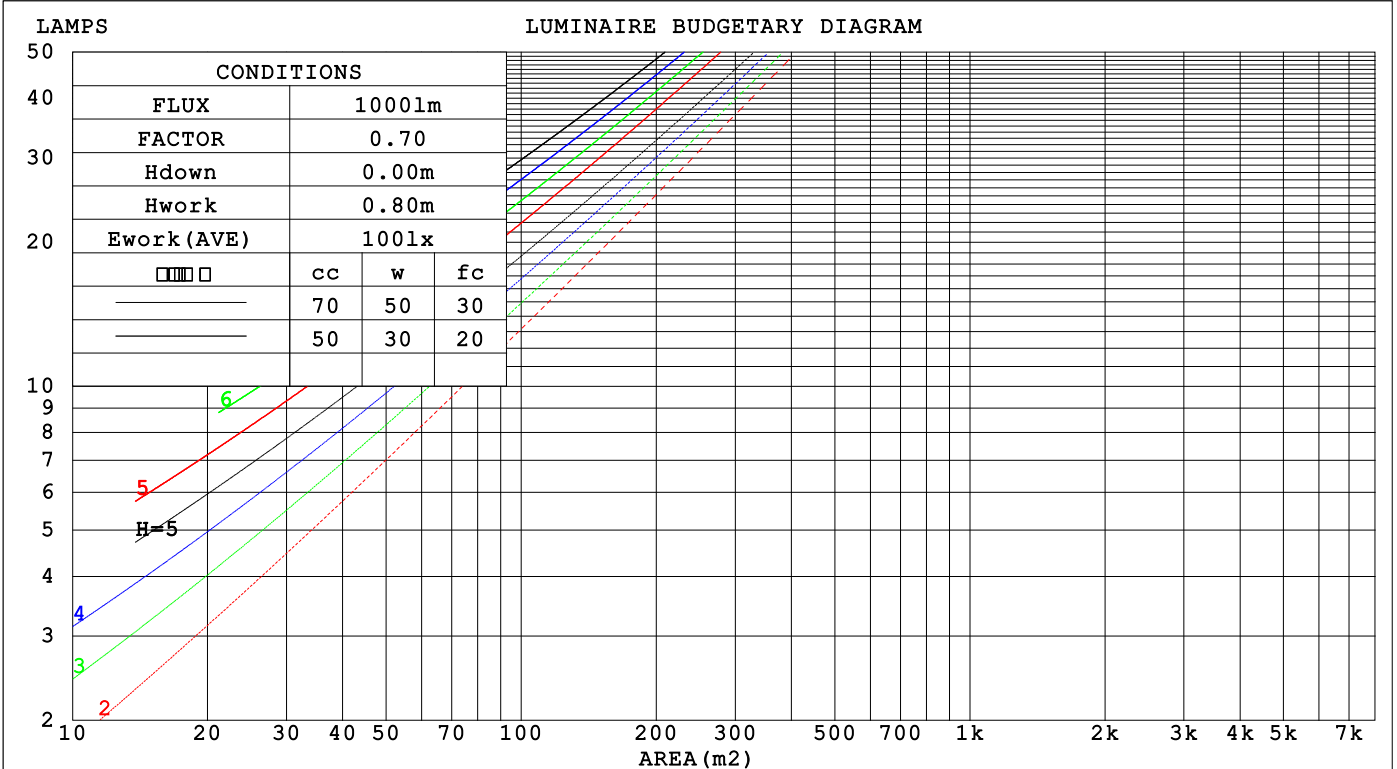
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2023-07-06

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:119.43V I:0.0673A P:7.6464W PF:0.9516 Freq:60.01Hz		
UTHdi:0.00% ITHdi:0.00% KDisp:0 Lamp Flux:871.233x1 lm		
NAME: DL254-4-16W-M-A5C5	TYPE: 8W	WEIGHT:
SPEC.: 4000K	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:119.43V I:0.0673A P:7.6464W PF:0.9516 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:871.233x1 lm		
NAME: DL254-4-16W-M-A5C5	TYPE: 8W	WEIGHT:
SPEC.: 4000K	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	.133	.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																
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	.081	.134	.098	.070	.092	.068	.049	.053	.040	.029	.017	.013	.009	
5.0	.148	.100	.064	.127	.087	.056	.087	.060	.039	.050	.035	.023	.016	.012	.008	
6.0	.140	.089	.052	.120	.077	.045	.083	.054	.032	.048	.032	.019	.015	.010	.006	
7.0	.133	.081	.043	.114	.070	.037	.079	.049	.027	.046	.029	.016	.015	.009	.005	
8.0	.127	.074	.036	.109	.064	.032	.075	.045	.022	.044	.026	.013	.014	.009	.004	
9.0	.121	.068	.031	.104	.059	.027	.072	.041	.019	.042	.024	.012	.014	.008	.004	
10.0	.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:119.43V I:0.0673A P:7.6464W PF:0.9516 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:871.233x1 lm		
NAME: DL254-4-16W-M-A5C5	TYPE: 8W	WEIGHT:
SPEC.: 4000K	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	23.1	24.4	23.4	24.6	24.8
3H	23.5	24.7	23.8	24.9	25.2	23.8	25.0	24.1	25.2	25.4
4H	23.8	25.0	24.1	25.2	25.5	24.1	25.2	24.4	25.4	25.7
6H	24.1	25.1	24.4	25.4	25.7	24.3	25.4	24.6	25.6	25.9
8H	24.1	25.2	24.5	25.4	25.7	24.3	25.4	24.7	25.6	25.9
12H	24.2	25.1	24.5	25.4	25.7	24.3	25.3	24.7	25.6	25.9
4H 2H	23.1	24.3	23.4	24.5	24.7	23.3	24.5	23.6	24.7	25.0
3H	24.0	25.0	24.3	25.3	25.5	24.2	25.2	24.5	25.5	25.7
4H	24.4	25.3	24.8	25.6	25.9	24.6	25.5	25.0	25.8	26.1
6H	24.8	25.6	25.2	25.9	26.3	24.9	25.7	25.3	26.1	26.4
8H	24.9	25.6	25.3	26.0	26.4	25.0	25.8	25.4	26.1	26.5
12H	24.9	25.6	25.4	26.0	26.4	25.0	25.7	25.5	26.1	26.5
8H 4H	24.6	25.3	25.0	25.6	26.0	24.7	25.5	25.1	25.8	26.2
6H	25.0	25.6	25.5	26.0	26.5	25.2	25.8	25.6	26.2	26.6
8H	25.2	25.8	25.7	26.2	26.6	25.3	25.9	25.8	26.3	26.7
12H	25.3	25.8	25.8	26.2	26.7	25.4	25.8	25.8	26.3	26.7
12H 4H	24.5	25.2	25.0	25.6	26.0	24.7	25.4	25.1	25.8	26.2
6H	25.1	25.6	25.5	26.0	26.5	25.2	25.7	25.7	26.2	26.6
8H	25.3	25.7	25.7	26.2	26.6	25.4	25.8	25.8	26.3	26.7

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 / - 0.9

CIE Pub.117, 871.2 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -0.5)
 Area: 0.00785 m2

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:

UTILIZATION FACTORS TABLE

Test:U:119.43V I:0.0673A P:7.6464W PF:0.9516 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:871.233x1 lm		
NAME: DL254-4-16W-M-A5C5	TYPE: 8W	WEIGHT:
SPEC.: 4000K	DIM.: 0.295	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.10	Shielding Angle:

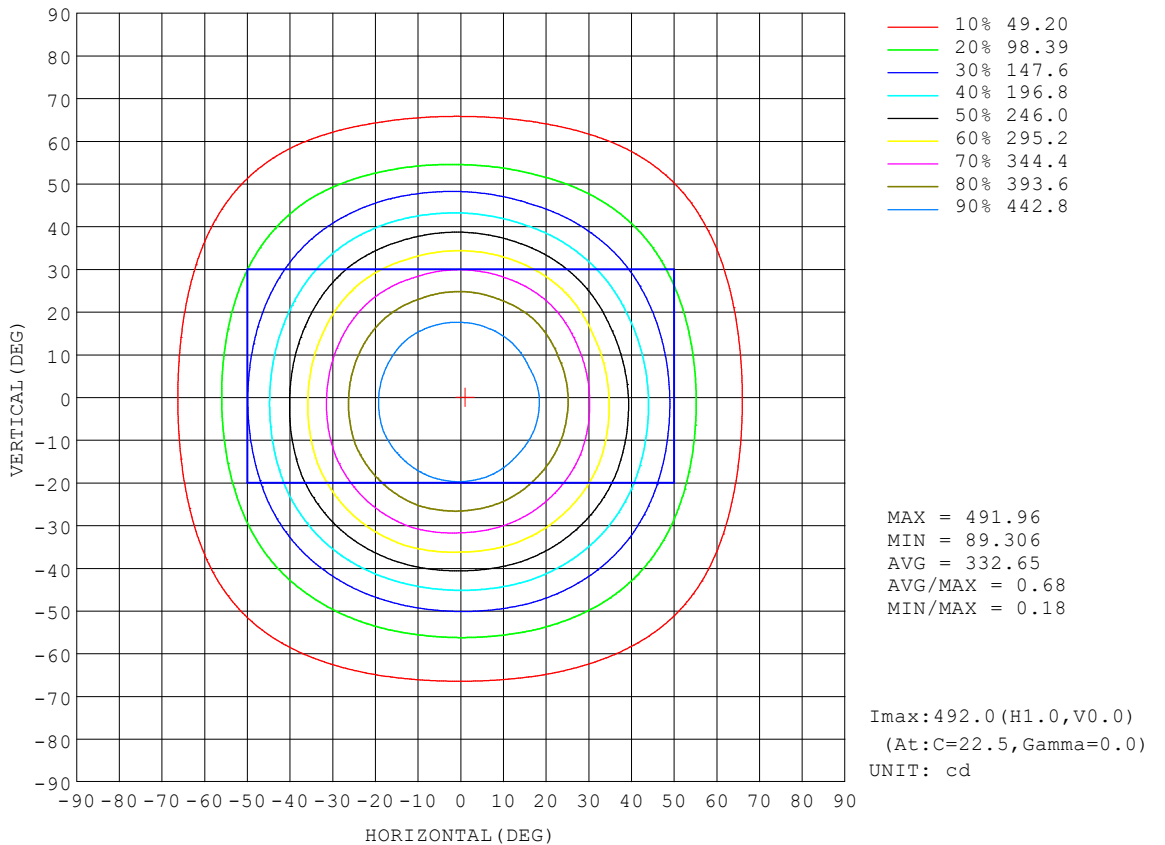
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	68	58	52	67	58	52	66	58	52	47
0.80	78	68	62	77	68	62	75	67	62	56
1.00	85	76	70	84	76	70	82	76	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	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	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:119.43V I:0.0673A P:7.6464W PF:0.9516 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:871.233x1 lm		
NAME: DL254-4-16W-M-A5C5	TYPE: 8W	WEIGHT:
SPEC.: 4000K	DIM.: 0.295	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.10	Shielding Angle:

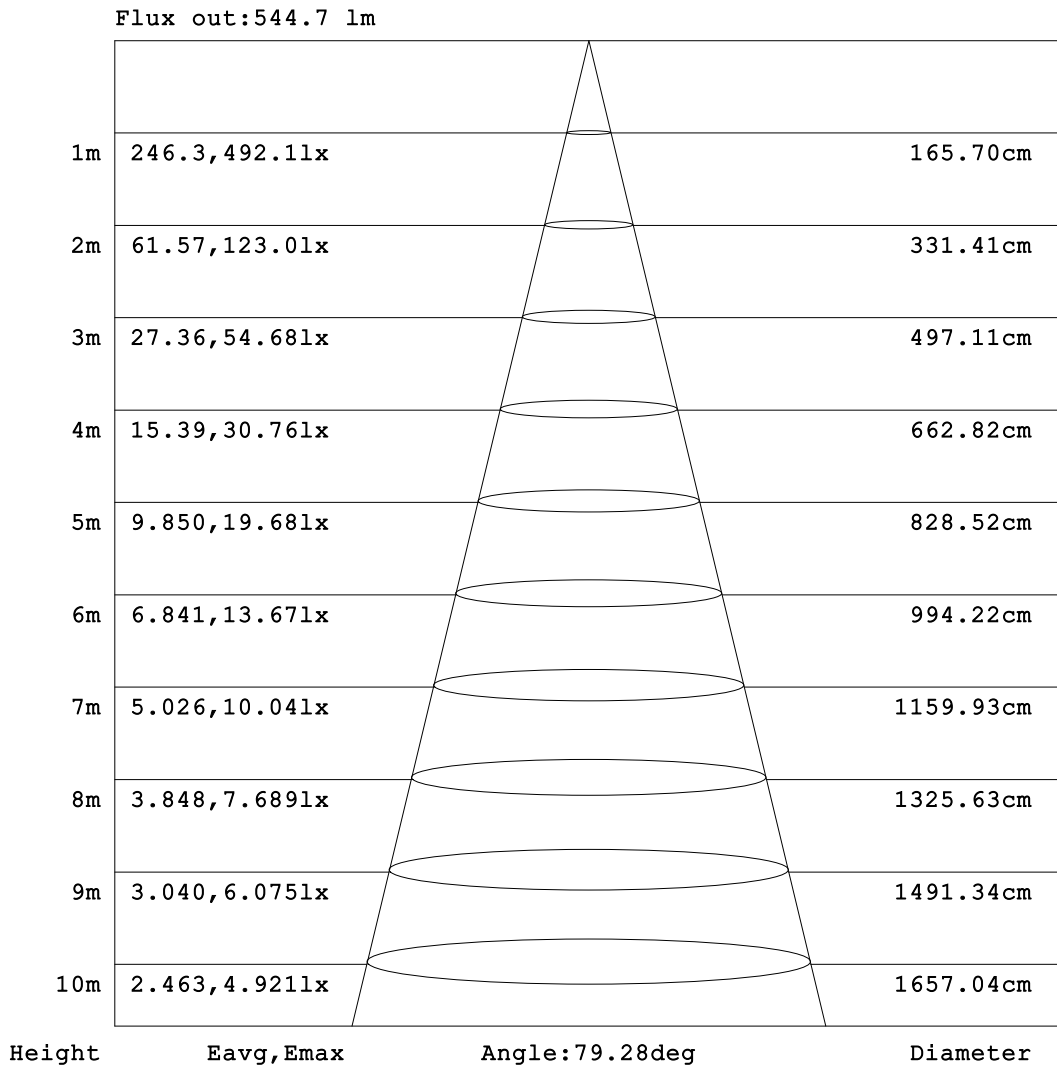


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2023-07-06

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:119.43V I:0.0673A P:7.6464W PF:0.9516 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:871.233x1 lm		
NAME: DL254-4-16W-M-A5C5	TYPE: 8W	WEIGHT:
SPEC.: 4000K	DIM.: 0.295	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.10	Shielding Angle:



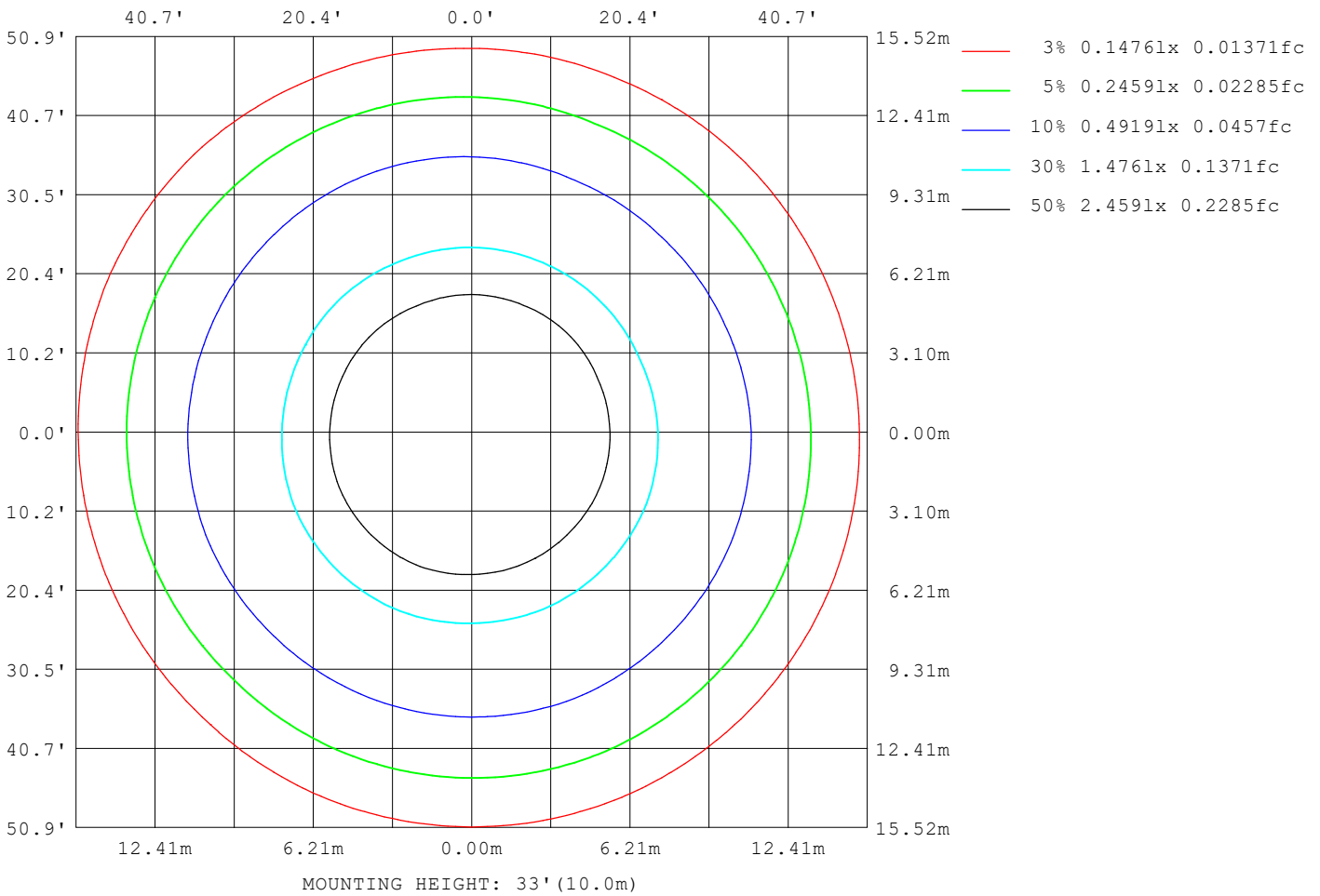
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:119.43V I:0.0673A P:7.6464W PF:0.9516 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:871.233x1 lm		
NAME: DL254-4-16W-M-A5C5	TYPE: 8W	WEIGHT:
SPEC.: 4000K	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:119.43V I:0.0673A P:7.6464W PF:0.9516 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:871.233x1 lm		
NAME: DL254-4-16W-M-A5C5	TYPE: 8W	WEIGHT:
SPEC.: 4000K	DIM.: 0.295	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.10	Shielding Angle:

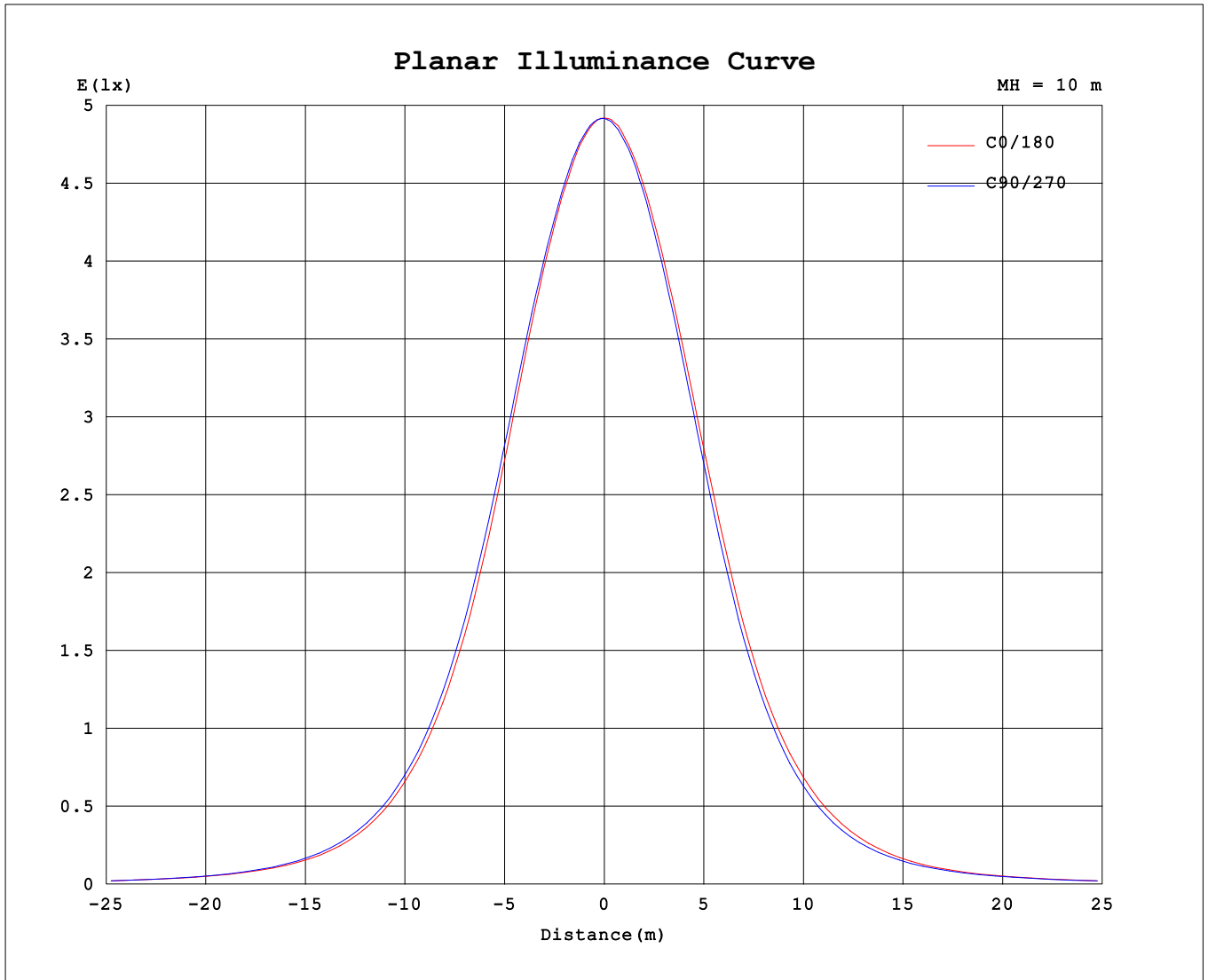
AvgL	cd/m2
L_0~180 (65) av	15991
L_0~180 (75) av	13321
L_0~180 (85) av	9453
L_90~270 (65) av	15990
L_90~270 (75) av	13324
L_90~270 (85) av	4566
L_45 (65) av	16057
L_45 (75) av	13346
L_45 (85) av	6779

Standard: GB/T 29293-2012

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:

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:

