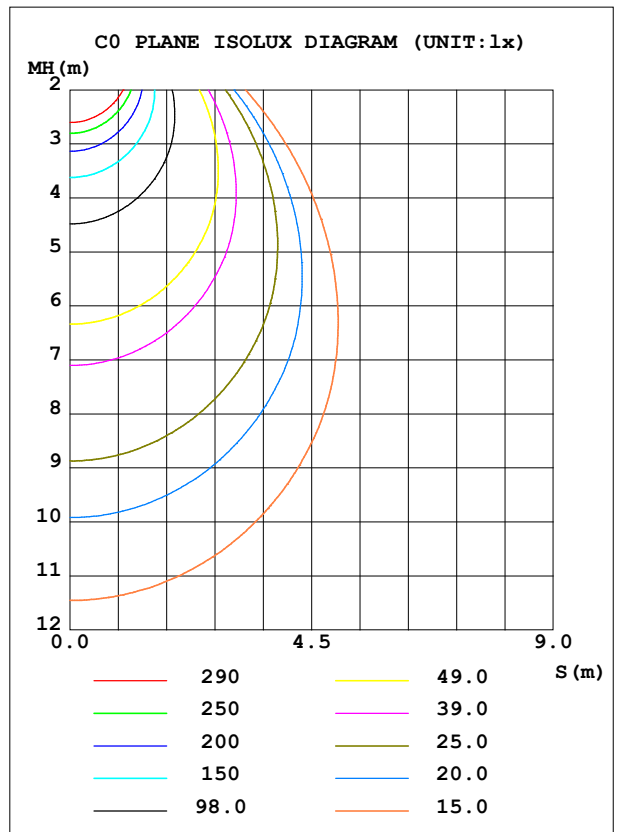
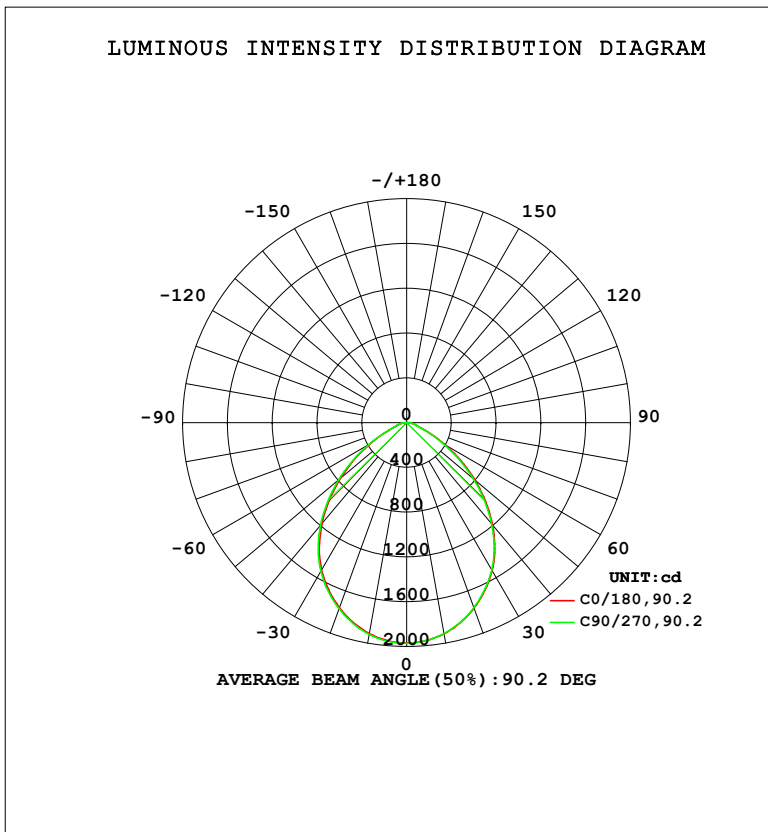


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.44V I:0.2840A P:33.634W PF:0.9917 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3941.36x1 lm		
NAME: DL254-10-40W-M-A5C5-HO	TYPE: 35W	WEIGHT:
SPEC.: 5000K	DIM.: 0.295	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.22	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	DL254-10-40W-M-A5C5-HO	Imax (cd)	1972	S/MH (C0/180)	1.16
NOMINAL POWER (W)	35	LOR (%)	100.0	S/MH (C90/270)	1.16
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	3941.4	<input type="checkbox"/> UP, DN (C0-180)	0.0, 50.2
NOMINAL FLUX (lm)	3941.36	CIE CLASS	DIRECT	<input type="checkbox"/> UP, DN (C180-360)	0.0, 49.8
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: 2023-07-04

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	1913	1916	1922	1923	1915	1917	1914	1912	0- 10	185.5	185.5	4.71,4.71
20	1758	1763	1768	1773	1763	1763	1758	1753	10- 20	521.3	706.8	17.9,17.9
30	1520	1525	1534	1540	1527	1526	1520	1514	20- 30	760.6	1467	37.2,37.2
40	1177	1183	1197	1207	1193	1189	1181	1174	30- 40	853.3	2321	58.9,58.9
50	768.7	780.9	792.3	804.5	794.9	785.2	775.8	767.4	40- 50	761.2	3082	78.2,78.2
60	369.7	375.2	383.9	390.1	394.0	388.5	375.6	366.7	50- 60	514.8	3597	91.3,91.3
70	118.8	119.2	121.6	124.1	126.7	127.7	124.0	120.8	60- 70	228.6	3825	97.1,97.1
80	52.54	52.73	53.72	55.09	56.54	56.64	55.79	54.73	70- 80	89.44	3915	99.3,99.3
90	1.141	1.154	1.114	1.141	1.986	1.968	1.967	1.967	80- 90	26.71	3941	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): 2723.8 lm

%lum = 69.1%

%lamp = 69.1%

Conical surface Flux(130deg): 3740.6 lm

%lum = 94.9%

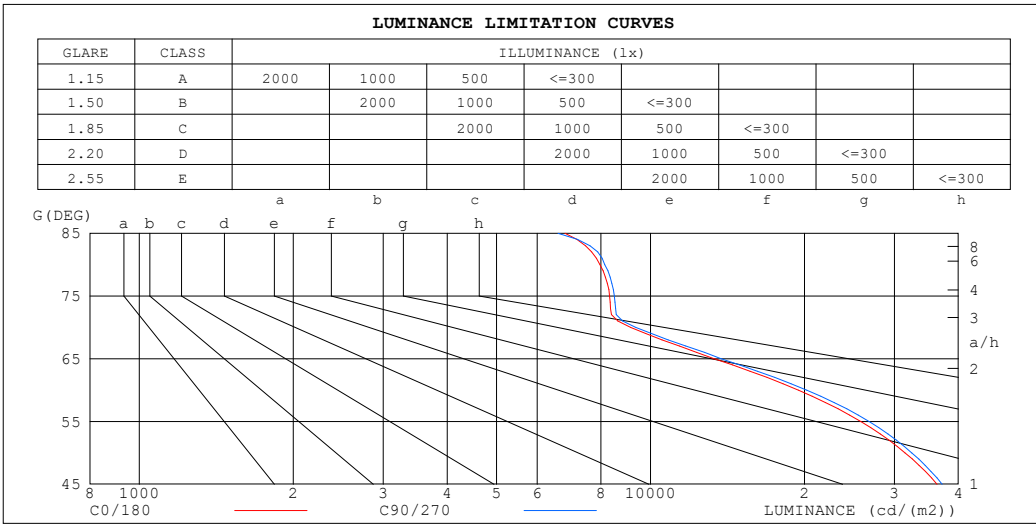
%lamp = 94.9%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2023-07-04

□ 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:119.44V I:0.2840A P:33.634W PF:0.9917 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3941.36x1 lm		
NAME: DL254-10-40W-M-A5C5-HO	TYPE: 35W	WEIGHT:
SPEC.: 5000K	DIM.: 0.295	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.22	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	6799	6590
80	7962	8141
75	8318	8499
70	9137	9357
65	13319	13741
60	19456	20203
55	25789	26757
50	31470	32437
45	36365	37201

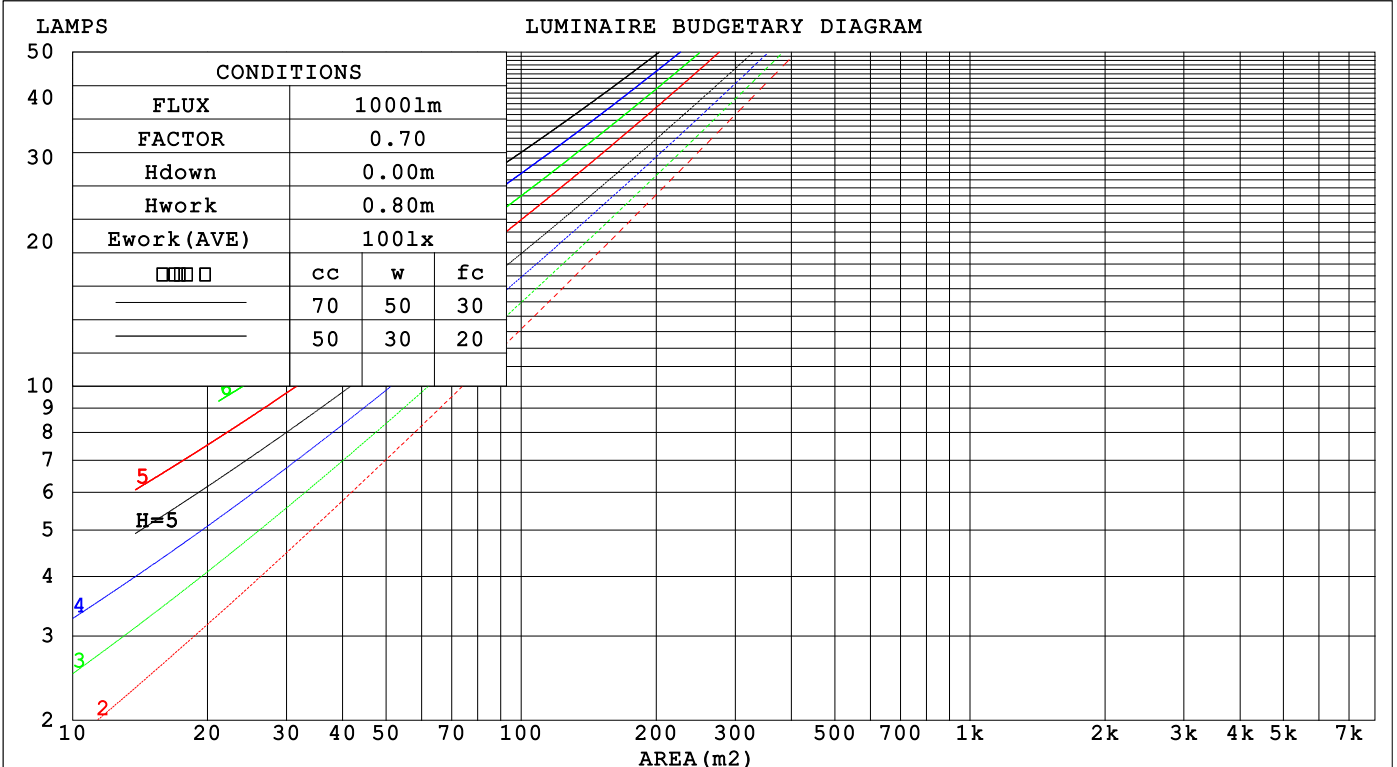
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: DAMIN
 Test Date: 2023-07-04

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:119.44V I:0.2840A P:33.634W PF:0.9917 Freq:60.01Hz		
UTHdi:0.00% ITHdi:0.00% KDisp:0 Lamp Flux:3941.36x1 lm		
NAME: DL254-10-40W-M-A5C5-HO	TYPE: 35W	WEIGHT:
SPEC.: 5000K	DIM.: 0.295	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.22	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	.85	.94	.89	.84	.90	.86	.82	.87	.84	.81	.84	.81	.79	.77
3.0	.86	.79	.73	.84	.78	.73	.81	.76	.71	.79	.74	.70	.76	.72	.69	.67
4.0	.77	.70	.64	.76	.69	.63	.74	.67	.63	.71	.66	.62	.69	.65	.61	.59
5.0	.70	.62	.56	.69	.61	.56	.67	.60	.55	.65	.59	.55	.63	.58	.54	.52
6.0	.64	.56	.50	.63	.55	.50	.61	.54	.49	.59	.53	.49	.58	.53	.49	.47
7.0	.58	.50	.45	.57	.50	.45	.56	.49	.44	.55	.49	.44	.53	.48	.44	.42
8.0	.53	.46	.40	.53	.45	.40	.52	.45	.40	.50	.44	.40	.49	.44	.40	.38
9.0	.49	.42	.37	.49	.42	.37	.48	.41	.36	.47	.41	.36	.46	.40	.36	.34
10.0	.46	.38	.34	.45	.38	.33	.44	.38	.33	.43	.37	.33	.43	.37	.33	.31



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2023-07-04

□ 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:119.44V I:0.2840A P:33.634W PF:0.9917 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3941.36x1 lm		
NAME: DL254-10-40W-M-A5C5-HO	TYPE: 35W	WEIGHT:
SPEC.: 5000K	DIM.: 0.295	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.22	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	.249 .142 .045	.242 .138 .044	.229 .132 .042	.218 .125 .040	.207 .120 .039	
2.0	.241 .132 .041	.235 .129 .040	.224 .124 .039	.213 .120 .037	.204 .115 .036	
3.0	.228 .122 .036	.223 .120 .036	.213 .116 .035	.204 .112 .034	.196 .108 .034	
4.0	.215 .112 .033	.211 .110 .033	.202 .107 .032	.194 .104 .031	.186 .101 .031	
5.0	.202 .103 .030	.198 .102 .030	.191 .099 .029	.183 .097 .029	.177 .094 .028	
6.0	.190 .095 .027	.187 .094 .027	.180 .092 .027	.174 .090 .027	.168 .088 .026	
7.0	.179 .089 .025	.176 .088 .025	.170 .086 .025	.164 .084 .025	.159 .083 .024	
8.0	.169 .083 .023	.166 .082 .023	.161 .080 .023	.156 .079 .023	.151 .077 .023	
9.0	.160 .077 .022	.157 .077 .022	.152 .075 .021	.148 .074 .021	.143 .073 .021	
10.0	.152 .073 .020	.149 .072 .020	.145 .071 .020	.141 .070 .020	.137 .069 .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	.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 .080	.134 .098 .070	.092 .068 .049	.053 .040 .029	.017 .013 .009	
4.0	.148 .100 .063	.127 .087 .055	.088 .060 .039	.051 .035 .023	.016 .012 .008	
5.0	.141 .089 .051	.121 .077 .045	.084 .054 .032	.048 .032 .019	.016 .010 .006	
6.0	.134 .081 .042	.116 .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	.117 .063 .027	.100 .055 .023	.070 .038 .017	.041 .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:2023-07-04

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:119.44V I:0.2840A P:33.634W PF:0.9917 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3941.36x1 lm		
NAME: DL254-10-40W-M-A5C5-HO	TYPE: 35W	WEIGHT:
SPEC.: 5000K	DIM.: 0.295	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.22	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	23.5	24.8	23.8	25.0	25.2	23.6	25.0	23.9	25.1	25.3
3H	23.7	25.0	24.0	25.2	25.4	23.8	25.1	24.1	25.3	25.5
4H	23.8	25.0	24.1	25.2	25.4	23.9	25.1	24.2	25.3	25.6
6H	23.9	24.9	24.2	25.2	25.5	24.0	25.1	24.3	25.3	25.6
8H	23.9	24.9	24.2	25.2	25.5	24.0	25.0	24.3	25.3	25.6
12H	23.9	24.9	24.2	25.1	25.4	24.0	25.0	24.3	25.3	25.6
4H 2H	23.6	24.8	23.9	25.0	25.3	23.7	24.9	24.0	25.1	25.4
3H	24.0	25.0	24.3	25.2	25.5	24.1	25.1	24.4	25.3	25.6
4H	24.1	25.0	24.5	25.3	25.6	24.2	25.1	24.6	25.4	25.7
6H	24.2	25.0	24.6	25.4	25.7	24.3	25.1	24.7	25.5	25.8
8H	24.3	25.0	24.7	25.4	25.8	24.4	25.1	24.8	25.5	25.9
12H	24.3	25.0	24.7	25.4	25.8	24.4	25.1	24.8	25.5	25.9
8H 4H	24.1	24.8	24.5	25.2	25.6	24.2	24.9	24.6	25.3	25.7
6H	24.3	24.9	24.7	25.3	25.7	24.4	25.0	24.8	25.4	25.8
8H	24.4	24.9	24.9	25.4	25.8	24.5	25.0	25.0	25.5	25.9
12H	24.5	24.9	25.0	25.4	25.9	24.6	25.0	25.1	25.5	26.0
12H 4H	24.1	24.7	24.5	25.1	25.5	24.2	24.8	24.6	25.2	25.6
6H	24.3	24.8	24.8	25.3	25.7	24.4	24.9	24.9	25.4	25.8
8H	24.4	24.9	24.9	25.3	25.8	24.5	25.0	25.0	25.4	25.9

Variations with the observer position at spacings(CIE Pub.117):		
S = 1.0H	+ 0.7 / - 0.8	+ 0.6 / - 0.8
1.5H	+ 0.3 / - 0.4	+ 0.3 / - 0.4
2.0H	+ 1.3 / - 1.8	+ 1.3 / - 1.8

CIE Pub.117, 3941 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 4.8)
 Area: 0.038 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:2023-07-04	Remarks:

UTILIZATION FACTORS TABLE

Test:U:119.44V I:0.2840A P:33.634W PF:0.9917 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3941.36x1 lm		
NAME: DL254-10-40W-M-A5C5-HO	TYPE: 35W	WEIGHT:
SPEC.: 5000K	DIM.: 0.295	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.22	Shielding Angle:

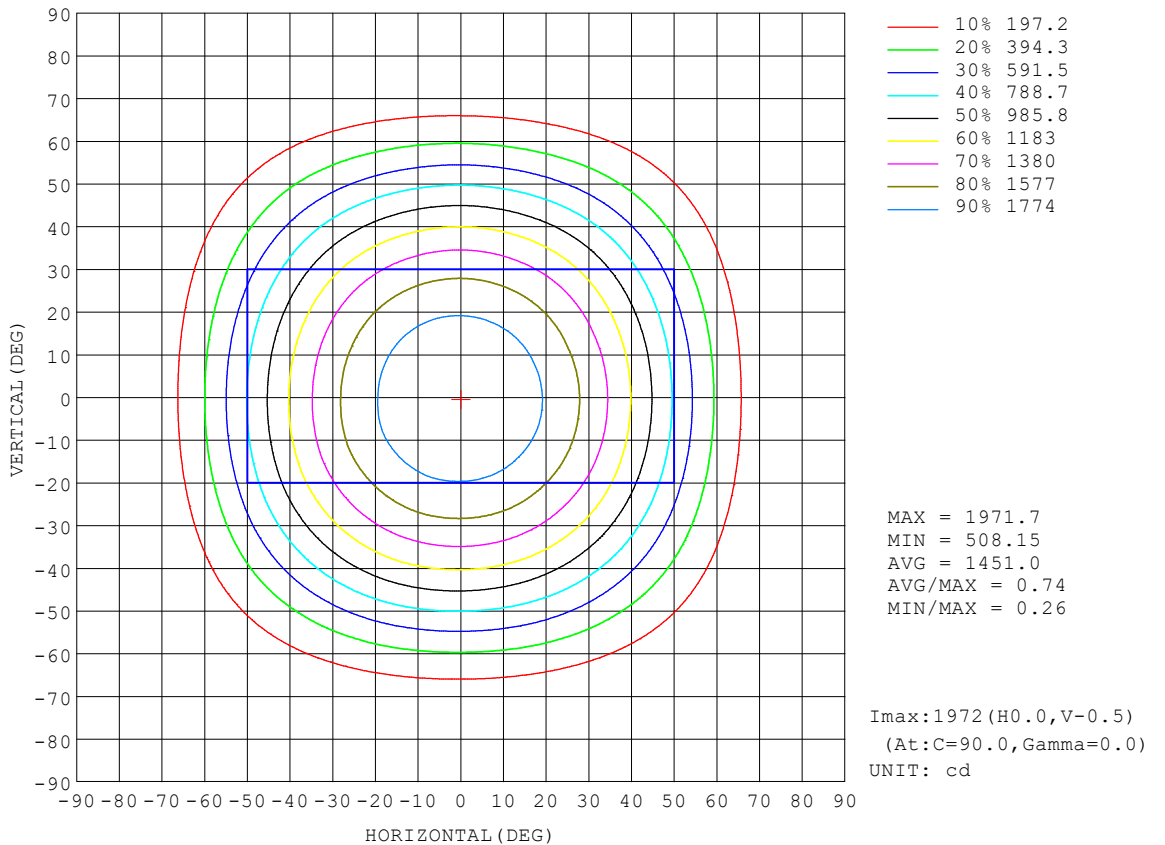
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	65	55	49	65	55	49	64	54	49	43
0.80	76	66	59	75	65	59	73	65	59	53
1.00	84	75	69	83	74	68	81	75	68	62
1.25	90	82	76	89	81	76	87	80	75	69
1.50	95	87	81	93	86	81	91	84	80	73
2.00	101	94	89	99	93	88	96	90	86	80
2.50	103	97	93	102	96	92	98	93	90	82
3.00	106	101	96	104	99	95	100	96	93	85
4.00	109	105	101	107	103	100	103	100	97	89
5.00	111	107	104	109	105	102	104	102	99	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:2023-07-04

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:119.44V I:0.2840A P:33.634W PF:0.9917 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3941.36x1 lm		
NAME: DL254-10-40W-M-A5C5-HO	TYPE: 35W	WEIGHT:
SPEC.: 5000K	DIM.: 0.295	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.22	Shielding Angle:

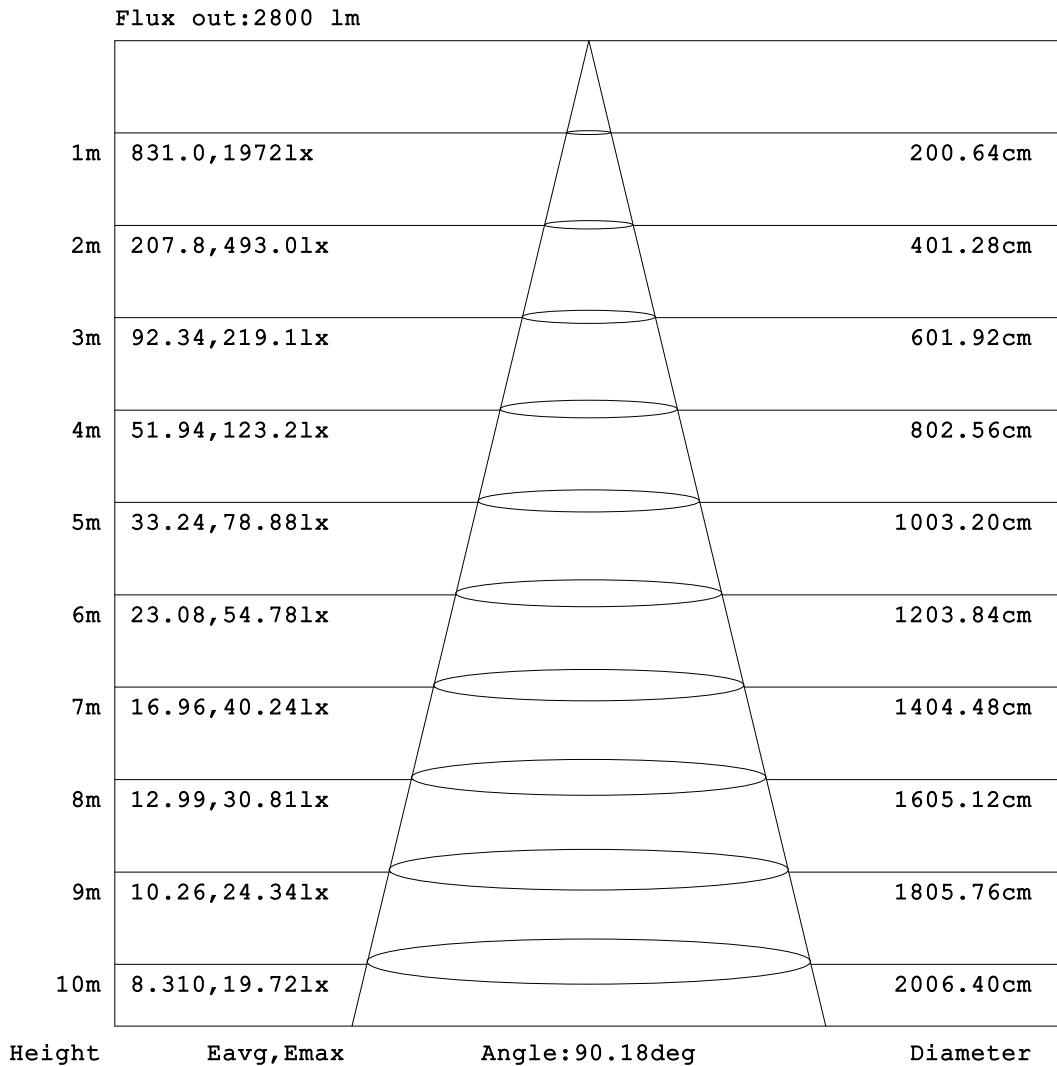


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2023-07-04

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:119.44V I:0.2840A P:33.634W PF:0.9917 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3941.36x1 lm		
NAME: DL254-10-40W-M-A5C5-HO	TYPE: 35W	WEIGHT:
SPEC.: 5000K	DIM.: 0.295	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.22	Shielding Angle:



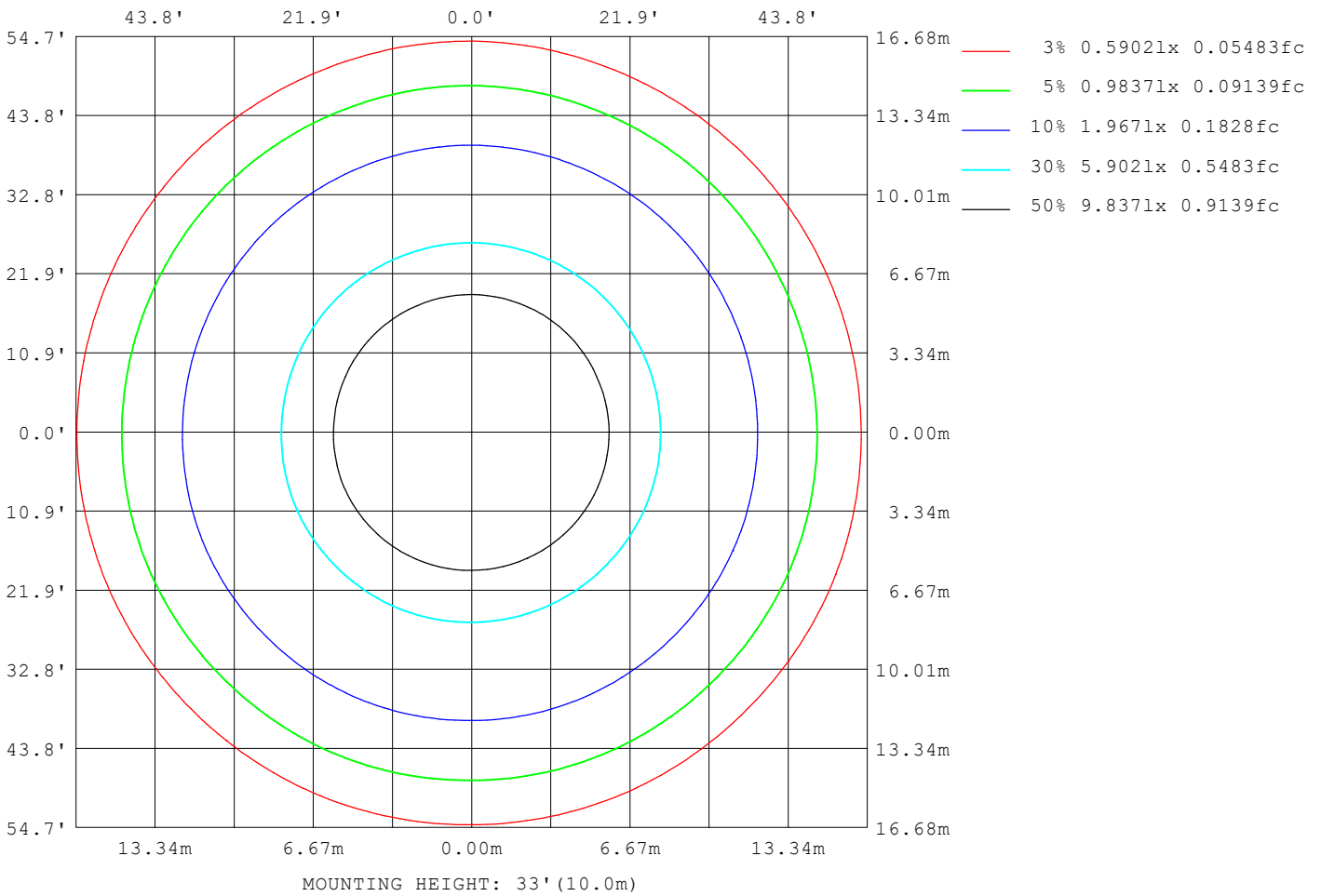
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: DAMIN
 Test Date: 2023-07-04

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:119.44V I:0.2840A P:33.634W PF:0.9917 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3941.36x1 lm		
NAME: DL254-10-40W-M-A5C5-HO	TYPE: 35W	WEIGHT:
SPEC.: 5000K	DIM.: 0.295	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.22	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: DAMIN
 Test Date: 2023-07-04

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:119.44V I:0.2840A P:33.634W PF:0.9917 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:3941.36x1 lm		
NAME: DL254-10-40W-M-A5C5-HO	TYPE: 35W	WEIGHT:
SPEC.: 5000K	DIM.: 0.295	SERIAL No.: 1
MFR.: Lotus LED Lights	SUR.: 0.22	Shielding Angle:

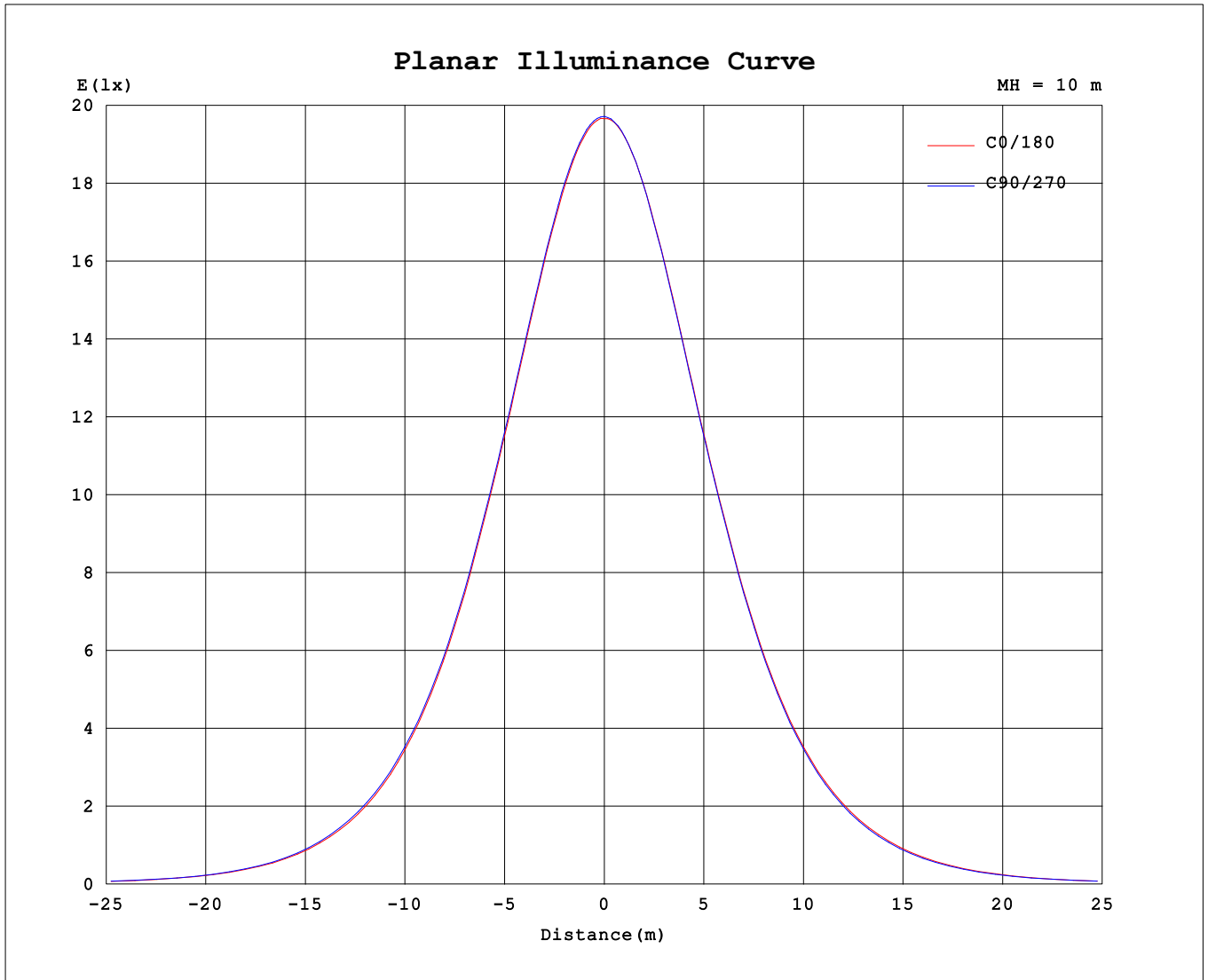
AvgL	cd/m2
L_0~180 (65) av	13814
L_0~180 (75) av	8525
L_0~180 (85) av	7361
L_90~270 (65) av	13725
L_90~270 (75) av	8563
L_90~270 (85) av	6837
L_45 (65) av	13777
L_45 (75) av	8551
L_45 (85) av	7255

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:DAMIN
 Test Date:2023-07-04

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: 2023-07-04

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:

