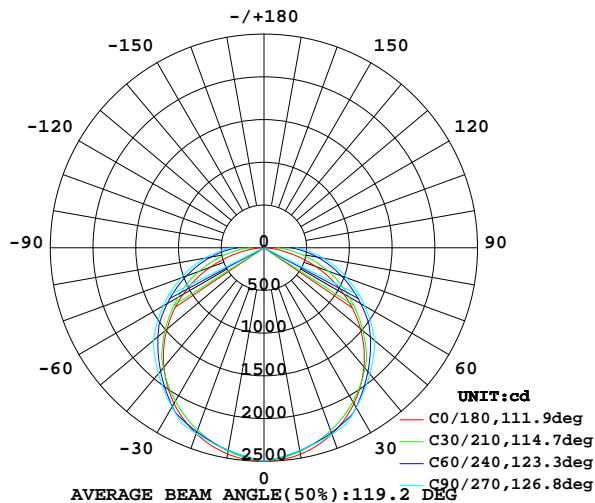


LUMINAIRE PHOTOMETRIC TEST REPORT

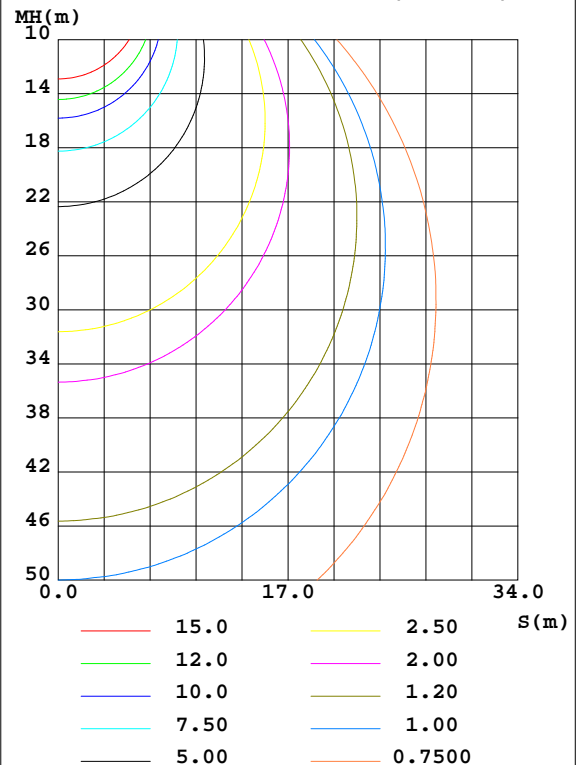
Test:U:120.3V I:0.5055A P:60.10W PF:0.9903 Lamp Flux:3959.41x2 lm		
NAME: MSS8-40/60/80/D10/U/35-40-50	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:2438*52	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 131.76 lm/W			
MODEL	4000K	I _{max} (cd)	2499	S/MH(C0/180)	1.25
NOMINAL POWER(W)	60	LOR(%)	100.0	S/MH(C90/270)	1.28
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	7918.8	η UP,DN(C0-180)	0.0,50.0
NOMINAL FLUX(lm)	3959.41	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,50.0
LAMPS INSIDE	2	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	η down(%)	100.0	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-08-19

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.290
Humidity:65.0%
Test Distance:8.600m [K=1.0314]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum, lamp
5	2488	2461	2455	2459	2485	2458	2453	2460	0- 5	59.19	59.19	0.75,0.75
10	2453	2414	2411	2413	2451	2410	2407	2412	5- 10	174.5	233.7	2.95,2.95
15	2397	2356	2366	2354	2395	2349	2361	2353	10- 15	283.4	517.1	6.53,6.53
20	2319	2288	2322	2285	2317	2280	2315	2284	15- 20	383.7	900.8	11.4,11.4
25	2224	2211	2278	2207	2218	2201	2269	2207	20- 25	473.4	1374	17.4,17.4
30	2105	2126	2161	2123	2105	2115	2153	2122	25- 30	549.1	1923	24.3,24.3
35	1972	2017	2044	2016	1972	2007	2037	2015	30- 35	605.4	2529	31.9,31.9
40	1820	1868	1927	1868	1821	1858	1922	1866	35- 40	643.0	3172	40.1,40.1
45	1654	1713	1810	1715	1660	1709	1806	1714	40- 45	662.3	3834	48.4,48.4
50	1472	1559	1693	1561	1481	1559	1690	1563	45- 50	664.0	4498	56.8,56.8
55	1280	1407	1528	1409	1294	1408	1526	1413	50- 55	646.9	5145	65,65
60	1076	1252	1363	1255	1093	1255	1361	1258	55- 60	609.0	5754	72.7,72.7
65	864.4	1068	1197	1069	884.8	1072	1197	1073	60- 65	554.2	6308	79.7,79.7
70	646.6	888.9	1032	888.5	669.7	894.2	1033	894.5	65- 70	486.0	6794	85.8,85.8
75	430.2	717.4	866.8	715.5	456.5	721.7	868.6	721.6	70- 75	407.7	7202	90.9,90.9
80	227.5	552.1	701.7	548.8	256.0	555.5	699.8	554.0	75- 80	323.4	7525	95,95
85	67.50	393.2	536.5	393.2	89.98	394.3	530.9	390.2	80- 85	237.6	7763	98,98
90	1.343	238.5	371.3	241.8	1.254	237.2	362.1	230.5	85- 90	156.0	7919	100,100
95									90- 95			
100									95-100			
105									100-105			
110									105-110			
115									110-115			
120									115-120			
125									120-125			
130									125-130			
135									130-135			
140									135-140			
145									140-145			
150									145-150			
155									150-155			
160									155-160			
165									160-165			
170									165-170			
175									170-175			
180									175-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

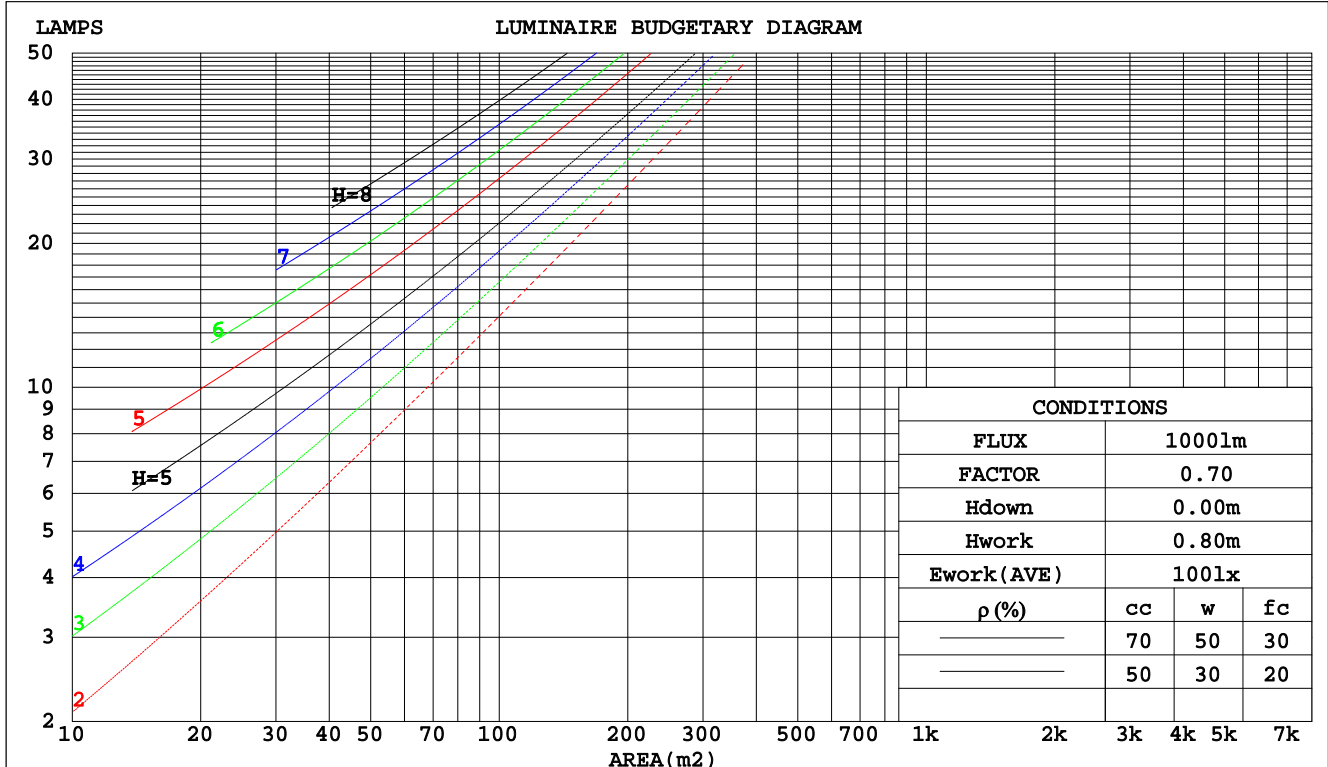
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-08-19

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 γ Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.290
 Humidity:65.0%
 Test Distance:8.600m [K=1.0314]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.3V I:0.5055A P:60.10W PF:0.9903 Lamp Flux:3959.4lx2 lm		
NAME: MSS8-40/60/80/D10/U/35-40-50	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:2438*52	PROTECTION ANGLE:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	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	1.01	.97	.92	.99	.95	.91	.95	.91	.88	.91	.88	.85	.87	.85	.82	.80
2.0	.87	.80	.74	.86	.79	.73	.82	.76	.71	.79	.74	.69	.75	.71	.68	.65
3.0	.76	.67	.60	.75	.66	.60	.72	.65	.59	.69	.63	.58	.66	.61	.57	.54
4.0	.67	.58	.51	.66	.57	.50	.63	.56	.50	.61	.54	.49	.59	.53	.48	.46
5.0	.60	.50	.43	.59	.50	.43	.57	.49	.43	.54	.48	.42	.53	.47	.42	.39
6.0	.54	.44	.38	.53	.44	.37	.51	.43	.37	.49	.42	.37	.48	.41	.36	.34
7.0	.49	.40	.33	.48	.39	.33	.46	.38	.33	.45	.38	.32	.43	.37	.32	.30
8.0	.44	.36	.29	.44	.35	.29	.42	.35	.29	.41	.34	.29	.40	.33	.29	.27
9.0	.41	.32	.26	.40	.32	.26	.39	.31	.26	.38	.31	.26	.37	.30	.26	.24
10.0	.37	.29	.24	.37	.29	.24	.36	.29	.24	.35	.28	.24	.34	.28	.23	.22



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-08-19

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.290
Humidity:65.0%
Test Distance:8.600m [K=1.0314]
Remarks:

WEC AND CCEC

Test:U:120.3V I:0.5055A P:60.10W PF:0.9903 Lamp Flux:3959.41x2 lm					
NAME: MSS8-40/60/80/D10/U/35-40-50			TYPE:LED		WEIGHT:
SPEC.:			DIM.:		SERIAL No.:1
MFR.: EVERFINE			SUR.:2438*52		PROTECTION ANGLE:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.356	.202	.064	.349	.199	.063	.335	.192	.061	.323	.186	.060	.311	.180	.058	
2.0	.320	.176	.054	.314	.173	.053	.302	.168	.052	.291	.163	.051	.281	.159	.050	
3.0	.290	.154	.046	.284	.152	.046	.274	.148	.045	.264	.145	.044	.255	.141	.044	
4.0	.264	.137	.040	.259	.135	.040	.249	.132	.040	.241	.129	.039	.233	.126	.038	
5.0	.241	.123	.036	.237	.122	.035	.229	.119	.035	.221	.117	.035	.214	.114	.034	
6.0	.222	.111	.032	.218	.110	.032	.211	.108	.031	.204	.106	.031	.198	.104	.031	
7.0	.206	.102	.029	.202	.101	.029	.196	.099	.029	.190	.097	.028	.184	.095	.028	
8.0	.191	.094	.026	.188	.093	.026	.182	.091	.026	.177	.090	.026	.172	.088	.026	
9.0	.179	.086	.024	.176	.086	.024	.171	.084	.024	.166	.083	.024	.161	.082	.024	
10.0	.168	.080	.022	.165	.080	.022	.160	.079	.022	.156	.077	.022	.152	.076	.022	

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	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	.183	.156	.131	.157	.134	.112	.107	.092	.078	.062	.053	.045	.020	.017	.015	
2.0	.176	.132	.095	.151	.113	.082	.103	.078	.057	.060	.046	.033	.019	.015	.011	
3.0	.168	.114	.071	.144	.099	.062	.099	.069	.043	.057	.040	.026	.018	.013	.008	
4.0	.160	.101	.056	.138	.088	.049	.095	.061	.034	.055	.036	.020	.018	.012	.007	
5.0	.153	.091	.046	.131	.079	.040	.090	.055	.028	.052	.032	.017	.017	.011	.005	
6.0	.145	.083	.038	.125	.072	.033	.086	.050	.023	.050	.029	.014	.016	.010	.005	
7.0	.138	.076	.032	.119	.066	.028	.082	.046	.020	.048	.027	.012	.015	.009	.004	
8.0	.131	.070	.028	.113	.061	.024	.078	.043	.017	.046	.025	.010	.015	.008	.003	
9.0	.125	.065	.025	.108	.056	.021	.075	.040	.015	.043	.023	.009	.014	.008	.003	
10.0	.119	.061	.022	.103	.053	.019	.071	.037	.014	.042	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-08-19

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.290
 Humidity:65.0%
 Test Distance:8.600m [K=1.0314]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.3V I:0.5055A P:60.10W PF:0.9903 Lamp Flux:3959.41x2 lm										
NAME: MSS8-40/60/80/D10/U/35-40-50					TYPE:LED			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:1		
MFR.: EVERFINE					SUR.:2438*52			PROTECTION 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	22.5	24.1	22.8	24.3	24.6	23.6	25.2	23.9	25.4	25.6
3H	24.0	25.5	24.3	25.7	26.0	25.8	27.2	26.1	27.5	27.7
4H	24.5	26.0	24.9	26.2	26.5	26.8	28.3	27.2	28.5	28.8
6H	24.9	26.2	25.2	26.5	26.8	27.9	29.3	28.3	29.6	29.8
8H	24.9	26.2	25.3	26.5	26.8	28.5	29.8	28.9	30.1	30.4
12H	25.0	26.2	25.3	26.5	26.8	29.1	30.4	29.5	30.7	31.0
4H 2H	23.4	24.8	23.7	25.1	25.4	24.2	25.7	24.6	25.9	26.2
3H	25.1	26.4	25.5	26.7	27.0	26.6	27.8	27.0	28.1	28.5
4H	25.8	27.0	26.2	27.3	27.7	27.9	29.0	28.2	29.3	29.7
6H	26.3	27.4	26.7	27.7	28.1	29.2	30.2	29.6	30.6	30.9
8H	26.5	27.4	26.9	27.8	28.2	29.9	30.8	30.3	31.2	31.6
12H	26.5	27.4	27.0	27.8	28.2	30.6	31.5	31.0	31.9	32.3
8H 4H	26.5	27.5	26.9	27.8	28.2	28.2	29.2	28.6	29.5	29.9
6H	27.3	28.1	27.7	28.5	28.9	29.8	30.6	30.2	31.0	31.4
8H	27.6	28.3	28.0	28.7	29.2	30.6	31.4	31.1	31.8	32.2
12H	27.8	28.4	28.2	28.9	29.3	31.6	32.2	32.1	32.7	33.2
12H 4H	26.7	27.6	27.1	27.9	28.4	28.2	29.1	28.7	29.5	29.9
6H	27.6	28.3	28.1	28.8	29.2	29.9	30.6	30.3	31.0	31.5
8H	28.0	28.6	28.5	29.1	29.6	30.8	31.5	31.3	31.9	32.4
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.2					+ 0.2 / - 0.3				
2.0H	+ 0.1 / - 0.3					+ 0.2 / - 0.4				

CIE Pub.117 Corrected 7919 lm Total Lamp Luminous Flux.(8log(F/F0) = 7.2)

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-08-19

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.290
 Humidity:65.0%
 Test Distance:8.600m [K=1.0314]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:120.3V I:0.5055A P:60.10W PF:0.9903 Lamp Flux:3959.41x2 lm		
NAME: MSS8-40/60/80/D10/U/35-40-50	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:2438*52	PROTECTION 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) $k(RI) \times RCR = 5$									
$k = 0.60$	55	43	36	54	43	36	53	42	36	29
0.80	65	53	45	64	52	45	62	51	44	37
1.00	73	61	53	72	61	53	69	62	53	45
1.25	80	69	61	79	68	61	76	67	60	52
1.50	85	74	67	83	74	66	80	72	65	57
2.00	92	83	76	90	82	75	87	79	73	65
2.50	96	88	81	94	86	80	90	84	78	69
3.00	100	92	86	98	91	85	93	88	83	74
4.00	104	98	92	102	96	91	97	92	88	79
5.00	107	101	97	104	99	95	100	96	92	82
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-08-19

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.290
Humidity:65.0%
Test Distance:8.600m [K=1.0314]
Remarks:

ISOCANDELA DIAGRAM

Test:U:120.3V I:0.5055A P:60.10W PF:0.9903 Lamp Flux:3959.4lx2 lm		
NAME: MSS8-40/60/80/D10/U/35-40-50	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:2438*52	PROTECTION ANGLE:

Conical surface Flux(90deg):

3834.1 lm

%lum = 48.4%

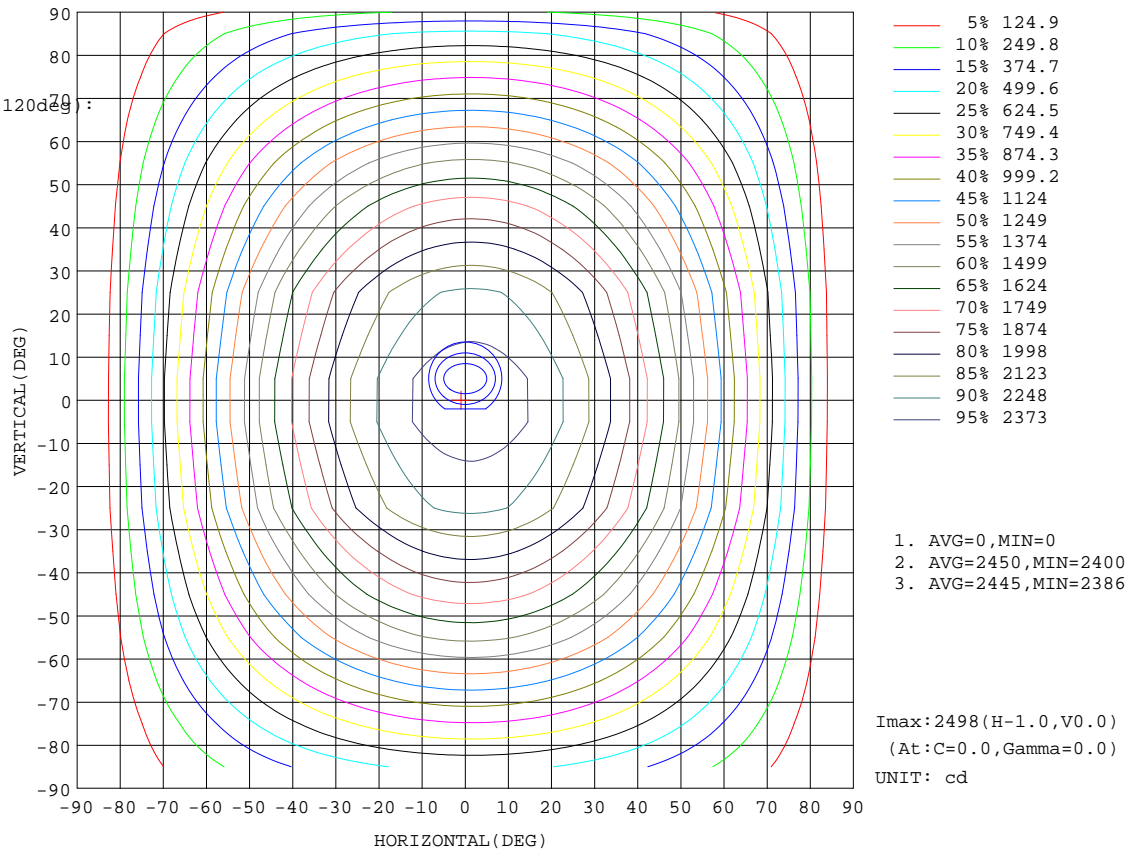
%lamp = 48.4%

Conical surface Flux(120deg):

5754 lm

%lum = 72.7%

%lamp = 72.7%

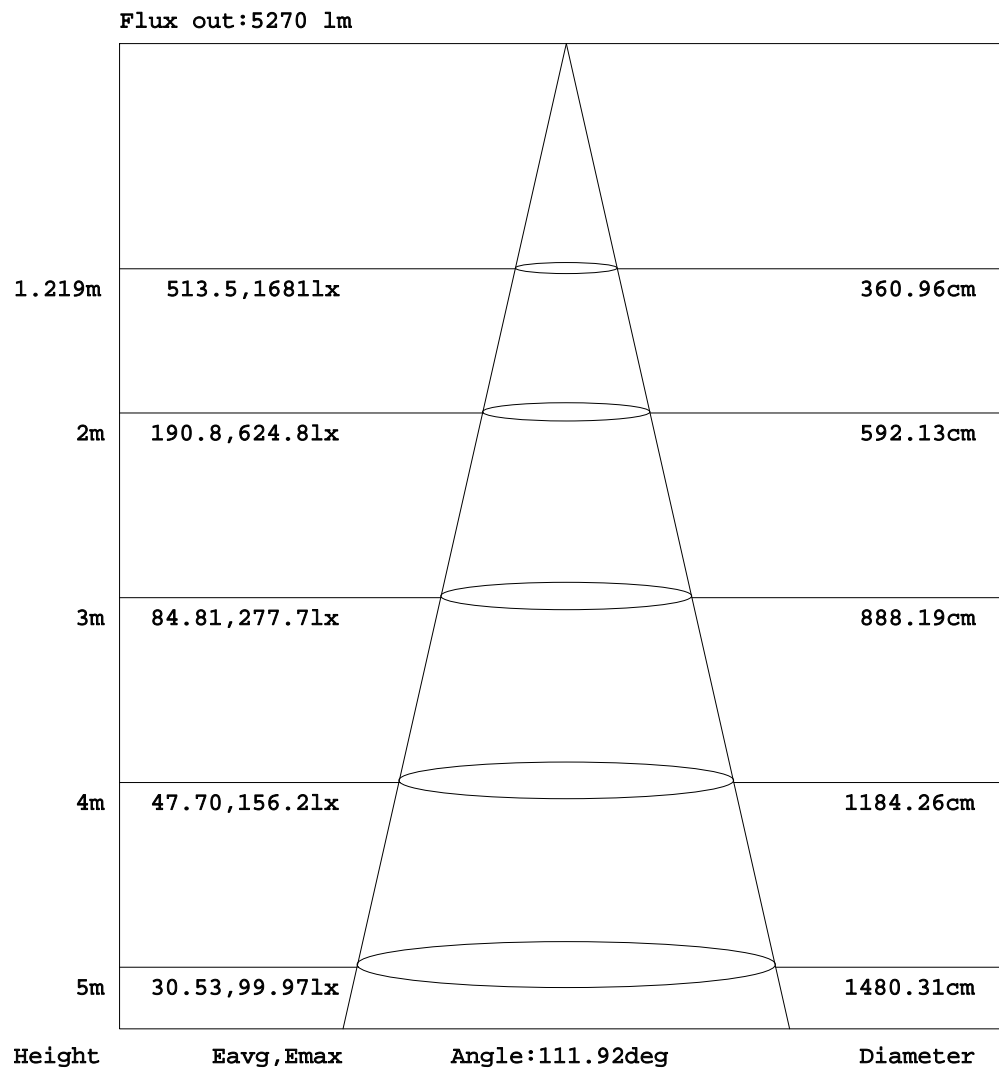


C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2022-08-19

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.290
Humidity: 65.0%
Test Distance: 8.600m [K=1.0314]
Remarks:

AAI Figure

Test:U:120.3V I:0.5055A P:60.10W PF:0.9903 Lamp Flux:3959.4lx2 lm		
NAME: MSS8-40/60/80/D10/U/35-40-50	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:2438*52	PROTECTION ANGLE:



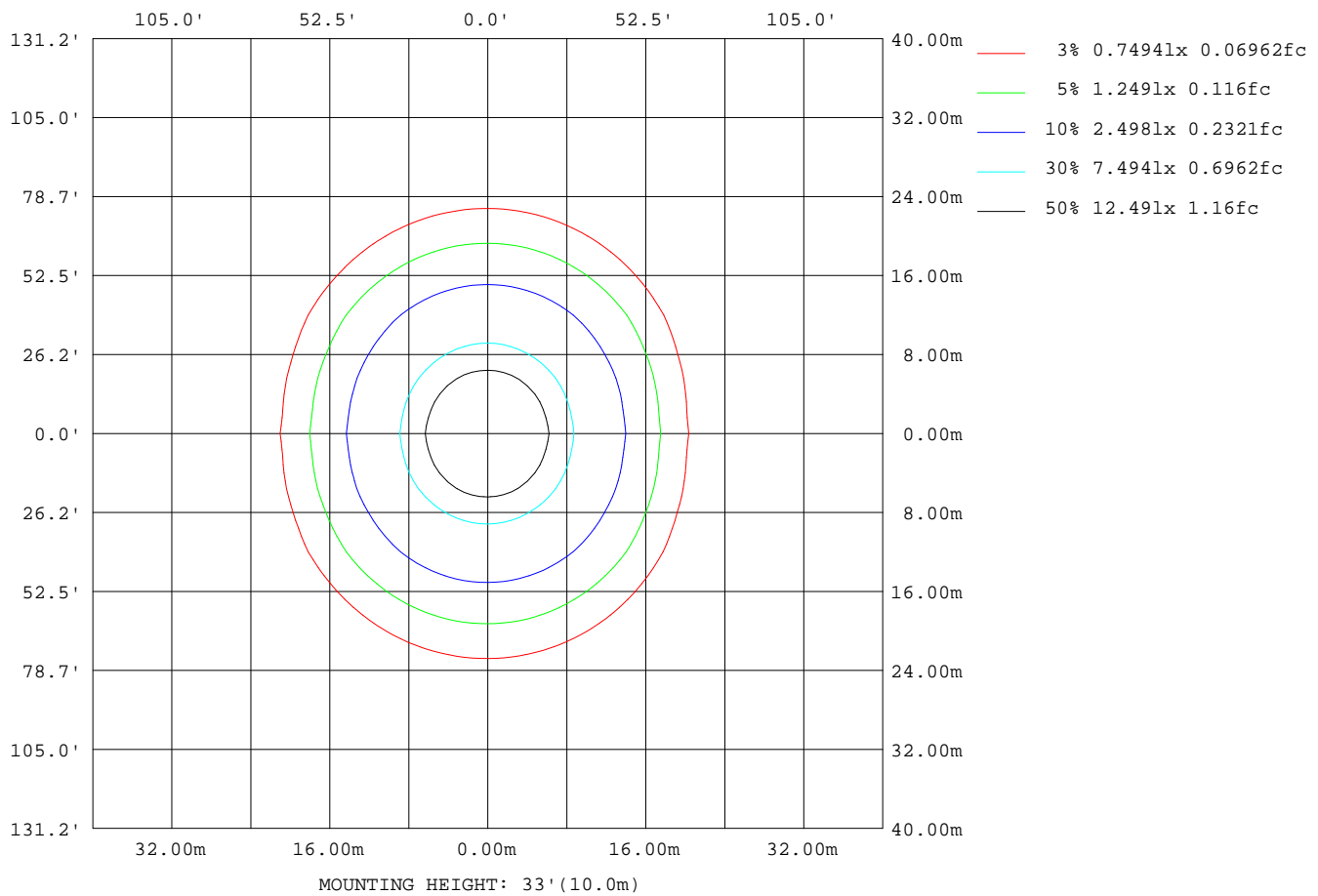
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-08-19

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.290
Humidity:65.0%
Test Distance:8.600m [K=1.0314]
Remarks:

ISOLUX DIAGRAM

Test:U:120.3V I:0.5055A P:60.10W PF:0.9903 Lamp Flux:3959.4lx2 lm		
NAME: MSS8-40/60/80/D10/U/35-40-50	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:2438*52	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2022-08-19

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.290
 Humidity: 65.0%
 Test Distance: 8.600m [K=1.0314]
 Remarks:

LED Avg.L Report

Test:U:120.3V I:0.5055A P:60.10W PF:0.9903 Lamp Flux:3959.4lx2 lm		
NAME: MSS8-40/60/80/D10/U/35-40-50	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:2438*52	PROTECTION ANGLE:

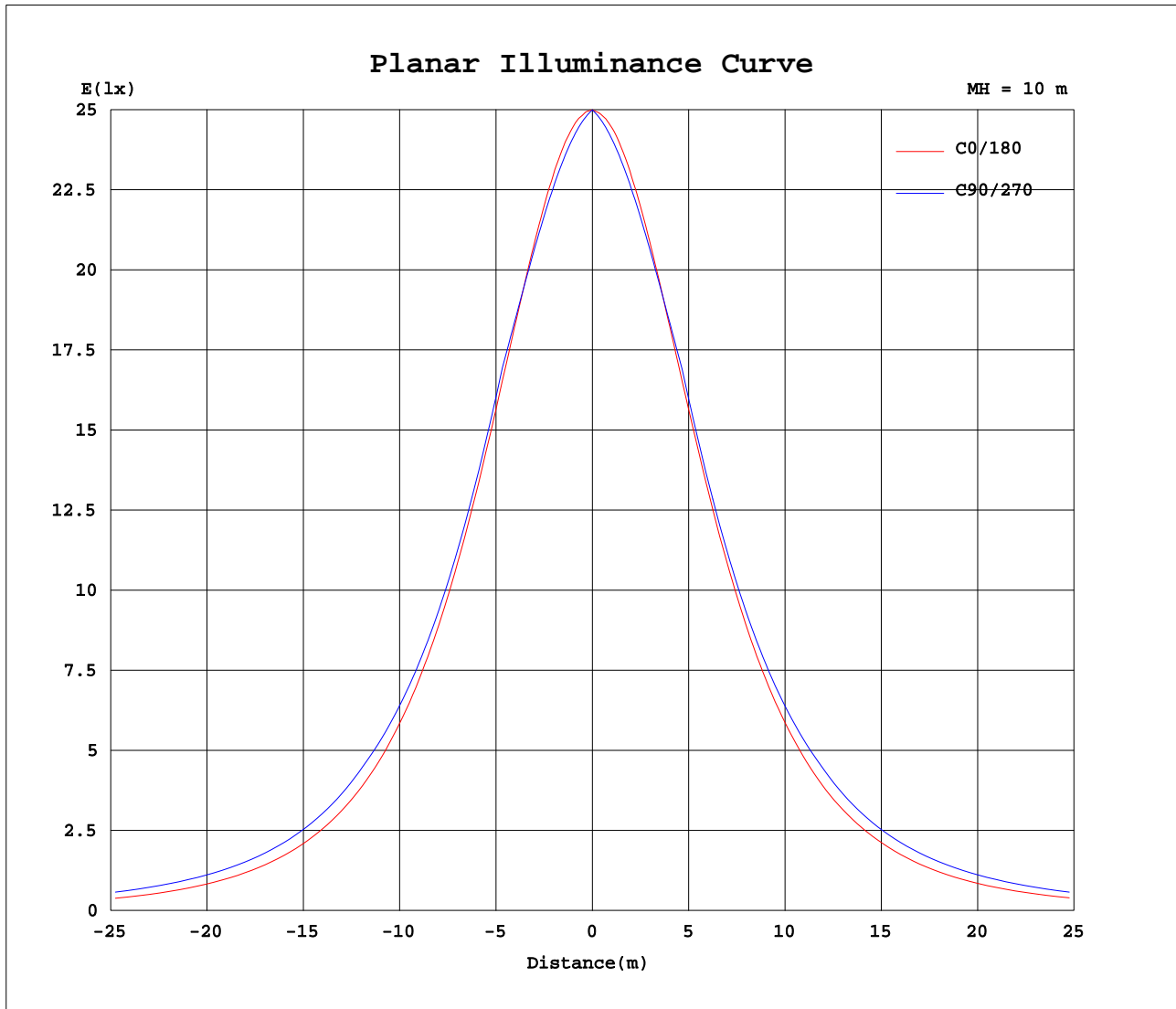
AvgL	cd/m2
L_0~180(65)av	16323
L_0~180(75)av	13512
L_0~180(85)av	7126
L_90~270(65)av	22346
L_90~270(75)av	26445
L_90~270(85)av	48302
L_45(65)av	19985
L_45(75)av	21915
L_45(85)av	35546

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-08-19

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.290
 Humidity:65.0%
 Test Distance:8.600m [K=1.0314]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2022-08-19

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.290
Humidity: 65.0%
Test Distance: 8.600m [K=1.0314]
Remarks:

