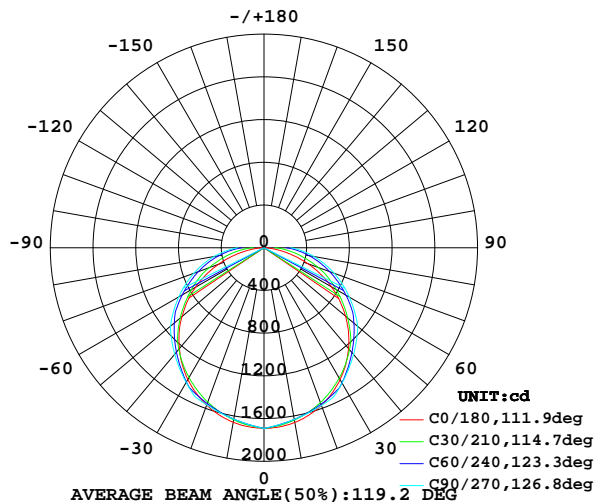


LUMINAIRE PHOTOMETRIC TEST REPORT

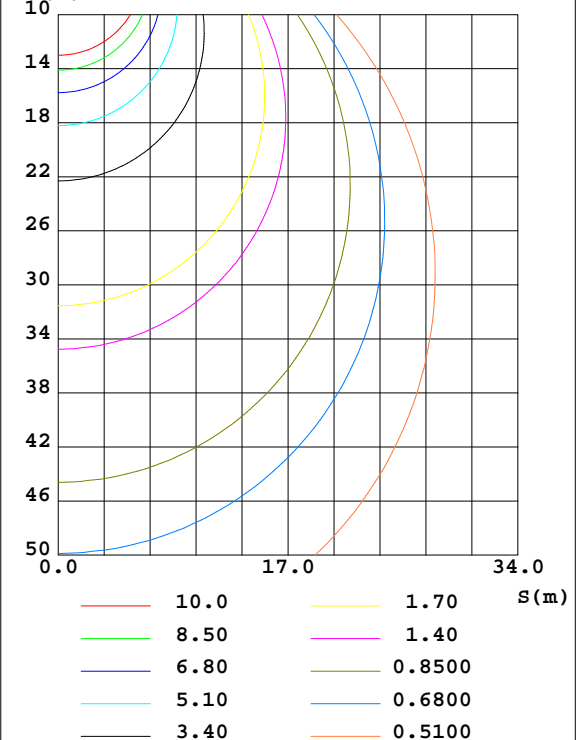
Test:U:120.3V I:0.3373A P:40.10W PF:0.9903 Lamp Flux:2680.38x2 lm		
NAME: MSS8-40/60/80/D10/U/35-40-50	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:2438*52	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 133.68 lm/W			
MODEL	4000K	I _{max} (cd)	1692	S/MH(C0/180)	1.25
NOMINAL POWER(W)	40	LOR(%)	100.0	S/MH(C90/270)	1.28
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	5360.8	η UP,DN(C0-180)	0.0,50.0
NOMINAL FLUX(lm)	2680.38	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	1684	1666	1662	1665	1682	1664	1661	1665	0- 5	40.07	40.07	0.75,0.75
10	1661	1634	1632	1634	1660	1632	1629	1633	5- 10	118.1	158.2	2.95,2.95
15	1623	1595	1602	1593	1622	1590	1598	1593	10- 15	191.9	350.1	6.53,6.53
20	1570	1549	1572	1547	1568	1543	1567	1546	15- 20	259.8	609.8	11.4,11.4
25	1505	1497	1542	1494	1502	1490	1536	1494	20- 25	320.5	930.3	17.4,17.4
30	1425	1439	1463	1437	1425	1432	1458	1437	25- 30	371.7	1302	24.3,24.3
35	1335	1366	1384	1364	1335	1359	1379	1364	30- 35	409.8	1712	31.9,31.9
40	1232	1265	1304	1265	1233	1258	1301	1263	35- 40	435.3	2147	40.1,40.1
45	1120	1160	1225	1161	1124	1157	1222	1160	40- 45	448.3	2596	48.4,48.4
50	996.3	1056	1146	1057	1003	1055	1144	1058	45- 50	449.5	3045	56.8,56.8
55	866.4	952.4	1034	953.7	876.0	953.1	1033	956.8	50- 55	437.9	3483	65,65
60	728.3	847.5	922.4	849.9	739.9	849.6	921.7	851.6	55- 60	412.3	3895	72.7,72.7
65	585.1	723.3	810.5	723.8	599.0	725.7	810.4	726.7	60- 65	375.2	4270	79.7,79.7
70	437.7	601.8	698.7	601.5	453.4	605.4	699.2	605.6	65- 70	329.0	4599	85.8,85.8
75	291.2	485.7	586.8	484.4	309.0	488.6	588.0	488.5	70- 75	276.0	4875	90.9,90.9
80	154.0	373.7	475.0	371.5	173.3	376.1	473.7	375.1	75- 80	218.9	5094	95,95
85	45.70	266.2	363.2	266.2	60.92	267.0	359.4	264.2	80- 85	160.8	5255	98,98
90	0.9089	161.5	251.3	163.7	0.8491	160.6	245.1	156.0	85- 90	105.6	5361	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		

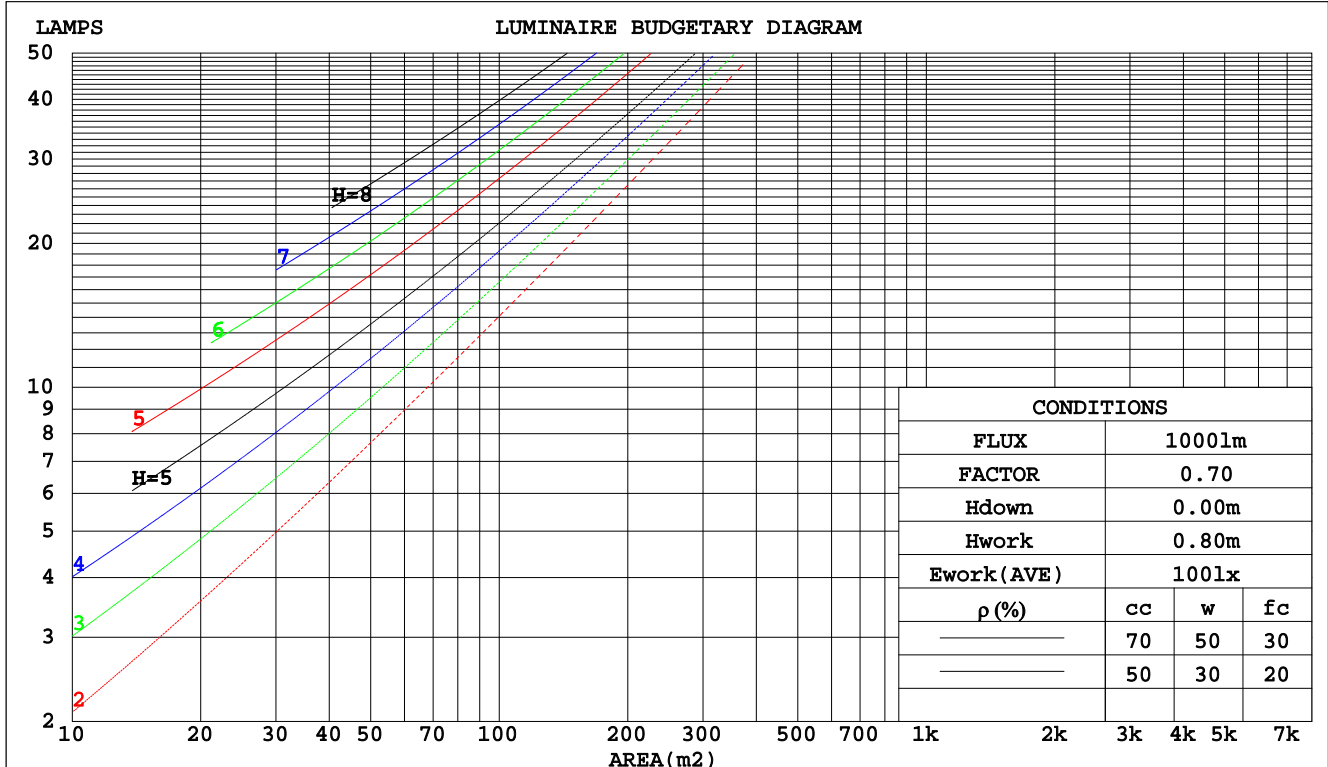
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-08-19

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 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:0.3373A P:40.10W PF:0.9903 Lamp Flux:2680.38x2 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:0.3373A P:40.10W PF:0.9903 Lamp Flux:2680.38x2 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:0.3373A P:40.10W PF:0.9903 Lamp Flux:2680.38x2 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	21.2	22.8	21.5	23.0	23.2	22.3	23.9	22.5	24.1	24.3
3H	22.6	24.1	22.9	24.4	24.6	24.4	25.9	24.7	26.1	26.4
4H	23.2	24.6	23.5	24.9	25.1	25.5	26.9	25.8	27.2	27.4
6H	23.5	24.9	23.9	25.1	25.4	26.6	27.9	26.9	28.2	28.5
8H	23.6	24.9	23.9	25.2	25.5	27.2	28.5	27.5	28.7	29.0
12H	23.6	24.8	24.0	25.1	25.5	27.8	29.0	28.1	29.3	29.6
4H 2H	22.1	23.5	22.4	23.7	24.0	22.9	24.3	23.2	24.6	24.8
3H	23.8	25.0	24.1	25.3	25.6	25.2	26.5	25.6	26.8	27.1
4H	24.5	25.6	24.9	26.0	26.3	26.5	27.7	26.9	28.0	28.3
6H	25.0	26.0	25.4	26.4	26.7	27.8	28.8	28.2	29.2	29.6
8H	25.1	26.1	25.5	26.5	26.8	28.5	29.5	28.9	29.8	30.2
12H	25.2	26.1	25.6	26.5	26.9	29.2	30.1	29.7	30.5	30.9
8H 4H	25.2	26.1	25.6	26.5	26.9	26.8	27.8	27.3	28.2	28.6
6H	25.9	26.7	26.4	27.2	27.6	28.4	29.2	28.9	29.6	30.1
8H	26.2	27.0	26.7	27.4	27.8	29.3	30.0	29.7	30.4	30.9
12H	26.4	27.0	26.9	27.5	28.0	30.2	30.9	30.7	31.3	31.8
12H 4H	25.3	26.2	25.7	26.6	27.0	26.9	27.8	27.3	28.2	28.6
6H	26.2	27.0	26.7	27.4	27.9	28.5	29.2	29.0	29.7	30.1
8H	26.7	27.3	27.1	27.7	28.2	29.5	30.1	30.0	30.6	31.0
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 5361 lm Total Lamp Luminous Flux.(8log(F/F0) = 5.8)

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:0.3373A P:40.10W PF:0.9903 Lamp Flux:2680.38x2 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) x 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										

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:0.3373A P:40.10W PF:0.9903 Lamp Flux:2680.38x2 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):

2595.5 lm

%lum = 48.4%

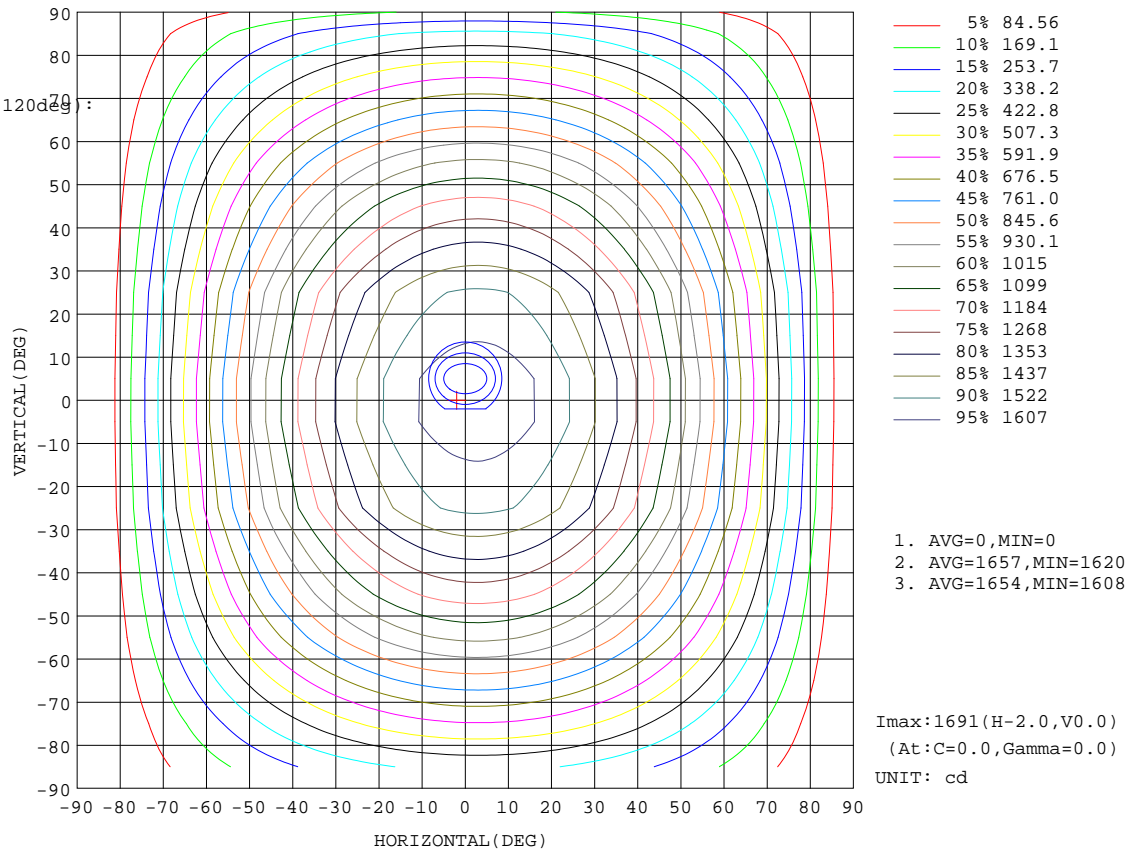
%lamp = 48.4%

Conical surface Flux(120deg):

3895.3 lm

%lum = 72.7%

%lamp = 72.7%

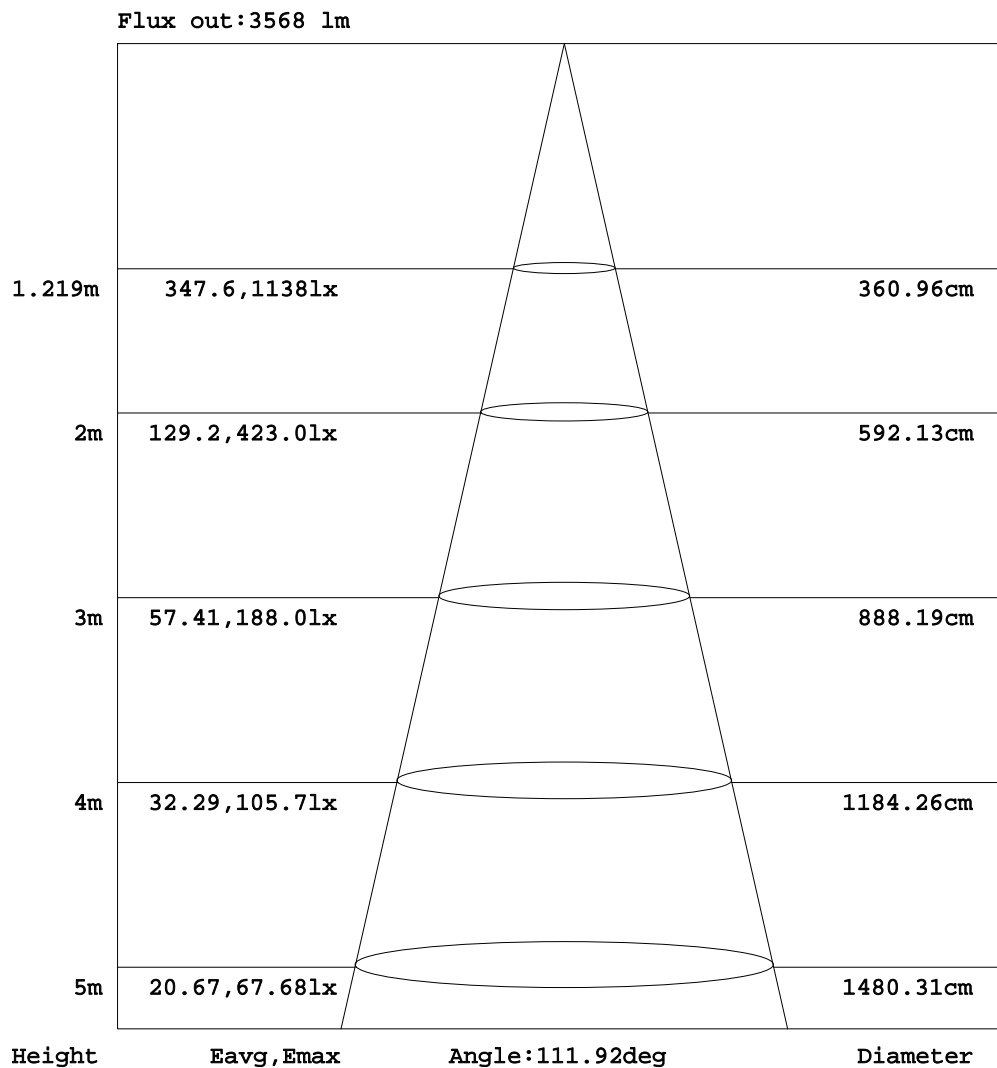


C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-08-19

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:0.3373A P:40.10W PF:0.9903 Lamp Flux:2680.38x2 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:



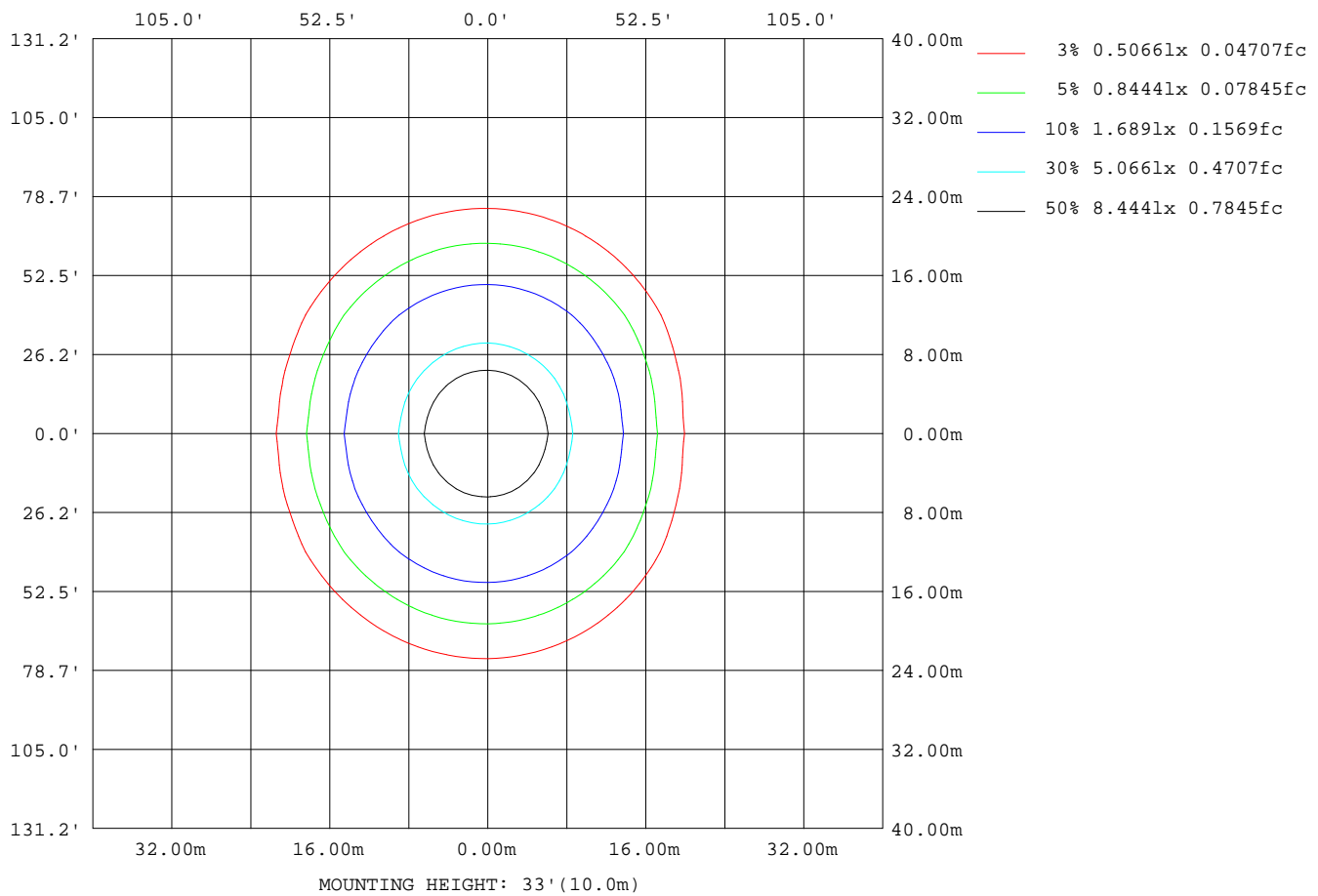
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.3373A P:40.10W PF:0.9903 Lamp Flux:2680.38x2 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:0.3373A P:40.10W PF:0.9903 Lamp Flux:2680.38x2 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:

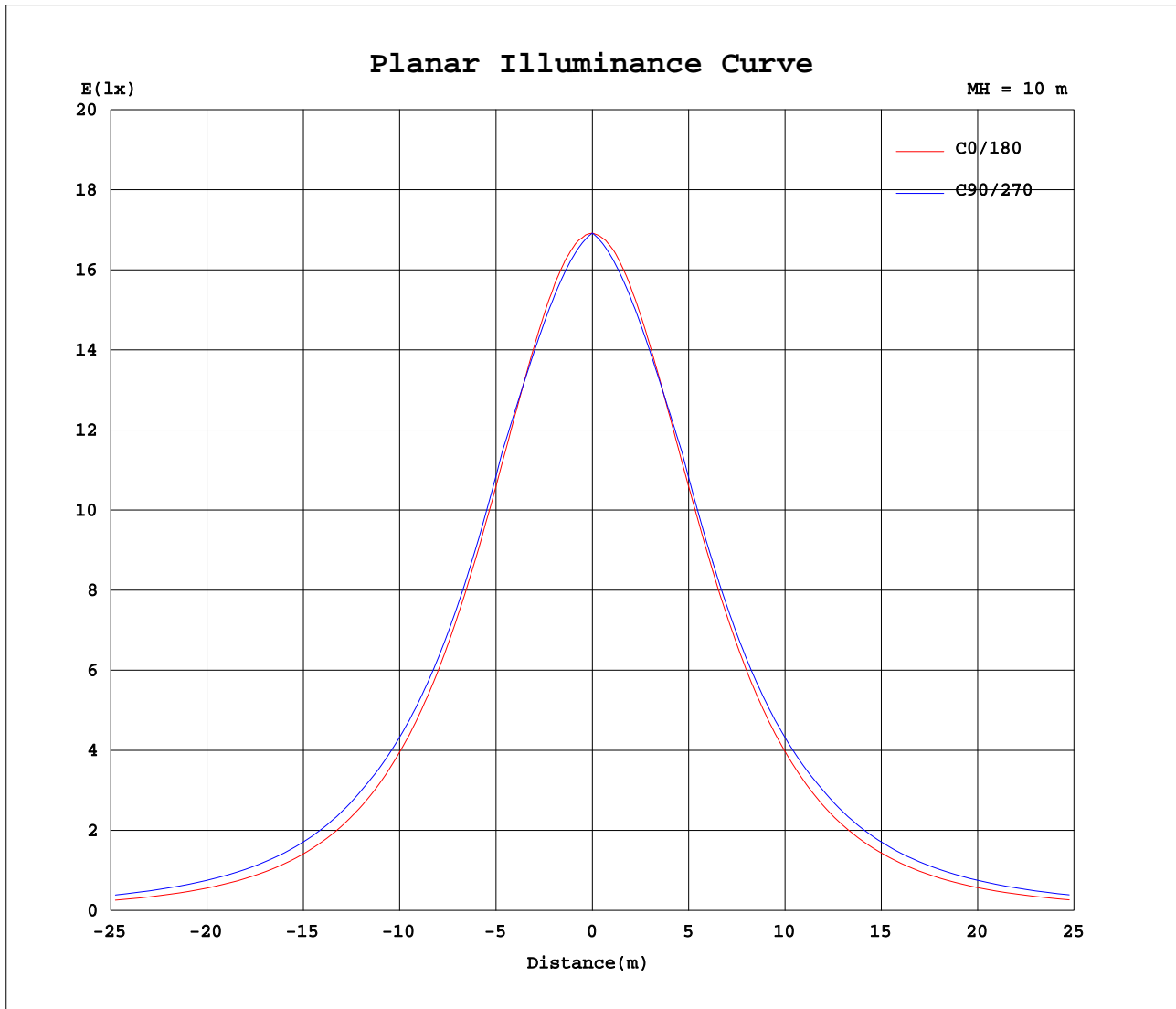
AvgL	cd/m2
L_0~180(65)av	11050
L_0~180(75)av	9147
L_0~180(85)av	4824
L_90~270(65)av	15127
L_90~270(75)av	17902
L_90~270(85)av	32699
L_45(65)av	13529
L_45(75)av	14835
L_45(85)av	24063

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:

