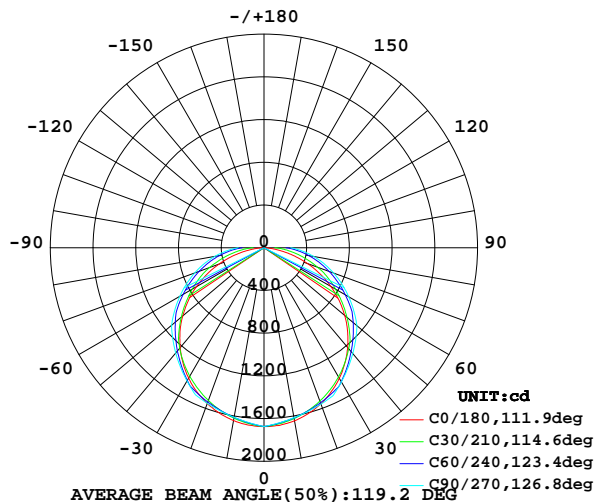


LUMINAIRE PHOTOMETRIC TEST REPORT

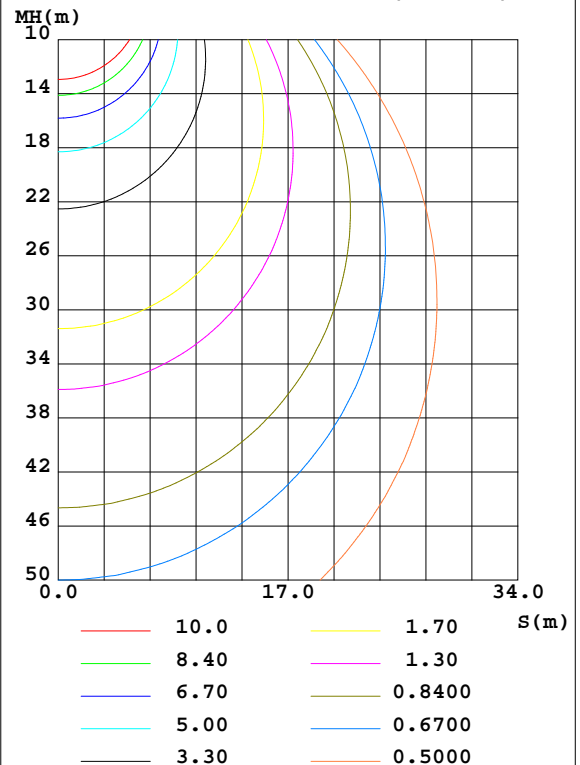
Test:U:120.3V I:0.3583A P:42.60W PF:0.9905 Lamp Flux:2653.63x2 lm		
NAME: MSS8-40/60/80/D10/U/35-40-50	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:2438*52	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 124.58 lm/W			
MODEL	5000K	I _{max} (cd)	1674	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)	5307.3	η UP,DN(C0-180)	0.0,50.1
NOMINAL FLUX(lm)	2653.63	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,49.9
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	1669	1650	1645	1649	1667	1648	1643	1649	0- 5	39.69	39.69	0.75,0.75
10	1646	1619	1616	1618	1644	1616	1612	1616	5- 10	117.0	156.7	2.95,2.95
15	1607	1580	1587	1578	1605	1574	1581	1577	10- 15	190.0	346.7	6.53,6.53
20	1555	1535	1558	1532	1552	1527	1550	1530	15- 20	257.2	603.9	11.4,11.4
25	1489	1483	1529	1480	1489	1473	1519	1478	20- 25	317.3	921.3	17.4,17.4
30	1411	1426	1450	1423	1410	1416	1441	1421	25- 30	368.0	1289	24.3,24.3
35	1320	1354	1372	1352	1321	1344	1364	1349	30- 35	405.8	1695	31.9,31.9
40	1219	1253	1293	1251	1219	1245	1286	1249	35- 40	430.9	2126	40.1,40.1
45	1107	1150	1215	1149	1113	1144	1208	1148	40- 45	443.8	2570	48.4,48.4
50	987.2	1047	1136	1046	992.0	1043	1130	1046	45- 50	444.9	3015	56.8,56.8
55	857.9	944.7	1026	945.0	866.3	942.2	1020	944.9	50- 55	433.5	3448	65,65
60	721.0	841.0	915.2	842.8	731.5	840.0	910.5	841.5	55- 60	408.1	3856	72.7,72.7
65	578.9	717.1	804.7	718.0	590.5	717.2	800.6	717.9	60- 65	371.4	4228	79.7,79.7
70	432.7	597.4	694.2	596.8	447.1	597.9	690.7	597.9	65- 70	325.6	4553	85.8,85.8
75	287.6	482.6	583.7	480.4	306.8	482.8	580.7	482.5	70- 75	273.2	4826	90.9,90.9
80	152.5	371.8	472.6	368.8	170.2	371.9	467.9	370.1	75- 80	216.8	5043	95,95
85	45.15	264.9	361.6	264.3	60.04	264.2	355.1	260.7	80- 85	159.3	5203	98,98
90	0.8956	160.9	250.6	162.6	0.8490	159.1	242.3	154.2	85- 90	104.7	5307	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		

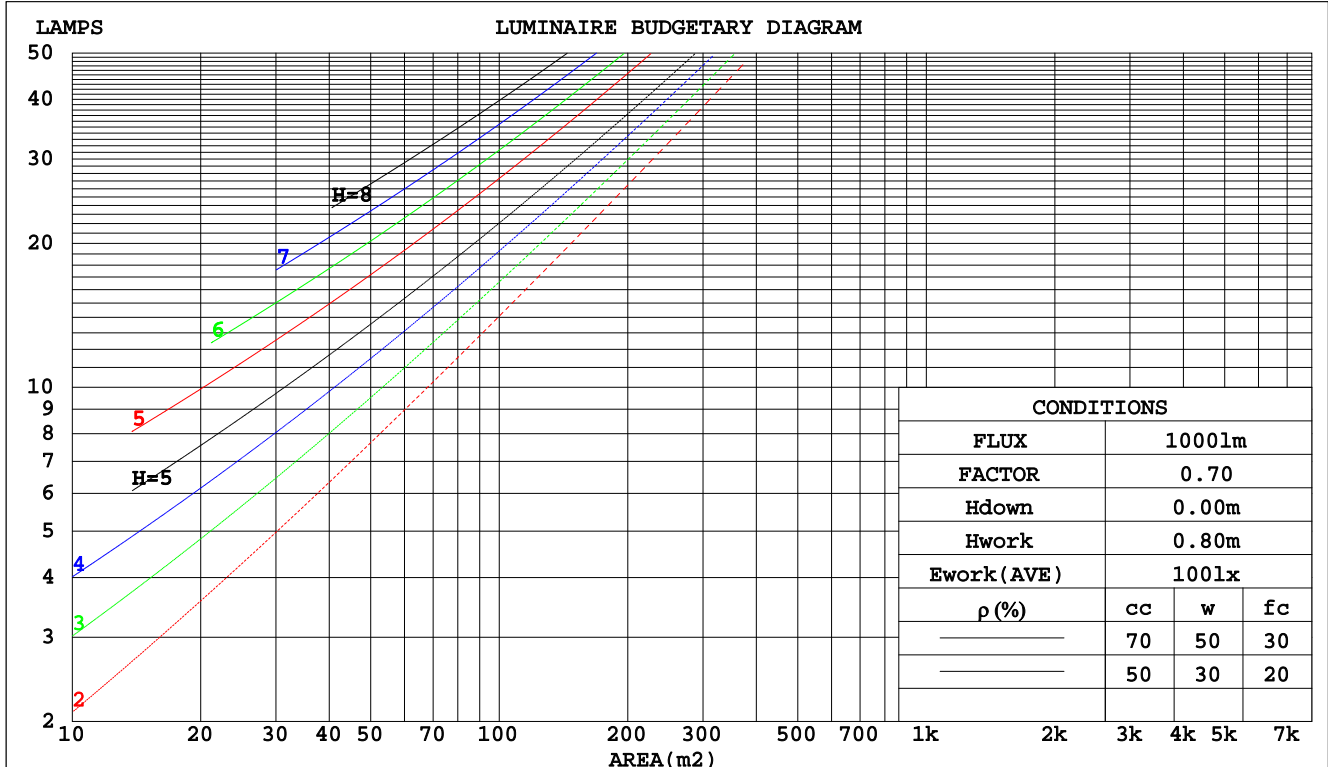
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-08-19

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:0.3583A P:42.60W PF:0.9905 Lamp Flux:2653.63x2 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:0.3583A P:42.60W PF:0.9905 Lamp Flux:2653.63x2 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	.181	.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:0.3583A P:42.60W PF:0.9905 Lamp Flux:2653.63x2 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	22.7	21.4	23.0	23.2	22.3	23.8	22.5	24.1	24.3
3H	22.6	24.1	22.9	24.3	24.6	24.4	25.9	24.7	26.1	26.3
4H	23.2	24.6	23.5	24.8	25.1	25.5	26.9	25.8	27.1	27.4
6H	23.5	24.8	23.8	25.1	25.4	26.6	27.9	26.9	28.2	28.5
8H	23.6	24.9	23.9	25.1	25.4	27.1	28.4	27.5	28.7	29.0
12H	23.6	24.8	23.9	25.1	25.4	27.7	29.0	28.1	29.3	29.6
4H 2H	22.0	23.5	22.4	23.7	24.0	22.9	24.3	23.2	24.5	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	24.8	25.9	26.3	26.5	27.6	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	26.4	26.8	28.5	29.5	28.9	29.8	30.2
12H	25.2	26.1	25.6	26.4	26.8	29.2	30.1	29.7	30.5	30.9
8H 4H	25.1	26.1	25.5	26.5	26.9	26.8	27.8	27.2	28.2	28.6
6H	25.9	26.7	26.4	27.1	27.6	28.4	29.2	28.8	29.6	30.1
8H	26.2	26.9	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	27.7	27.3	28.1	28.5
6H	26.2	27.0	26.7	27.4	27.8	28.5	29.2	29.0	29.7	30.1
8H	26.6	27.3	27.1	27.7	28.2	29.5	30.1	29.9	30.5	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 5307 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:0.3583A P:42.60W PF:0.9905 Lamp Flux:2653.63x2 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:0.3583A P:42.60W PF:0.9905 Lamp Flux:2653.63x2 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):

2569.8 lm

%lum = 48.4%

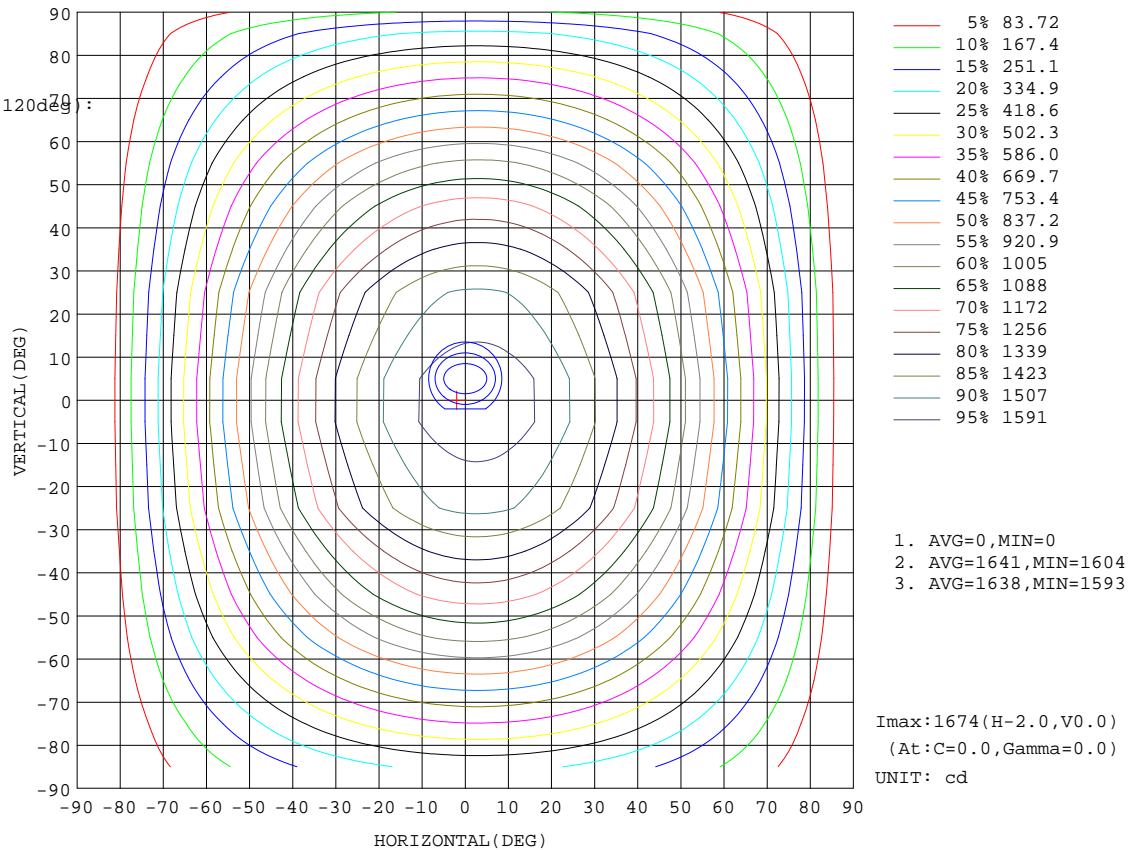
%lamp = 48.4%

Conical surface Flux(120deg):

3856.3 lm

%lum = 72.7%

%lamp = 72.7%

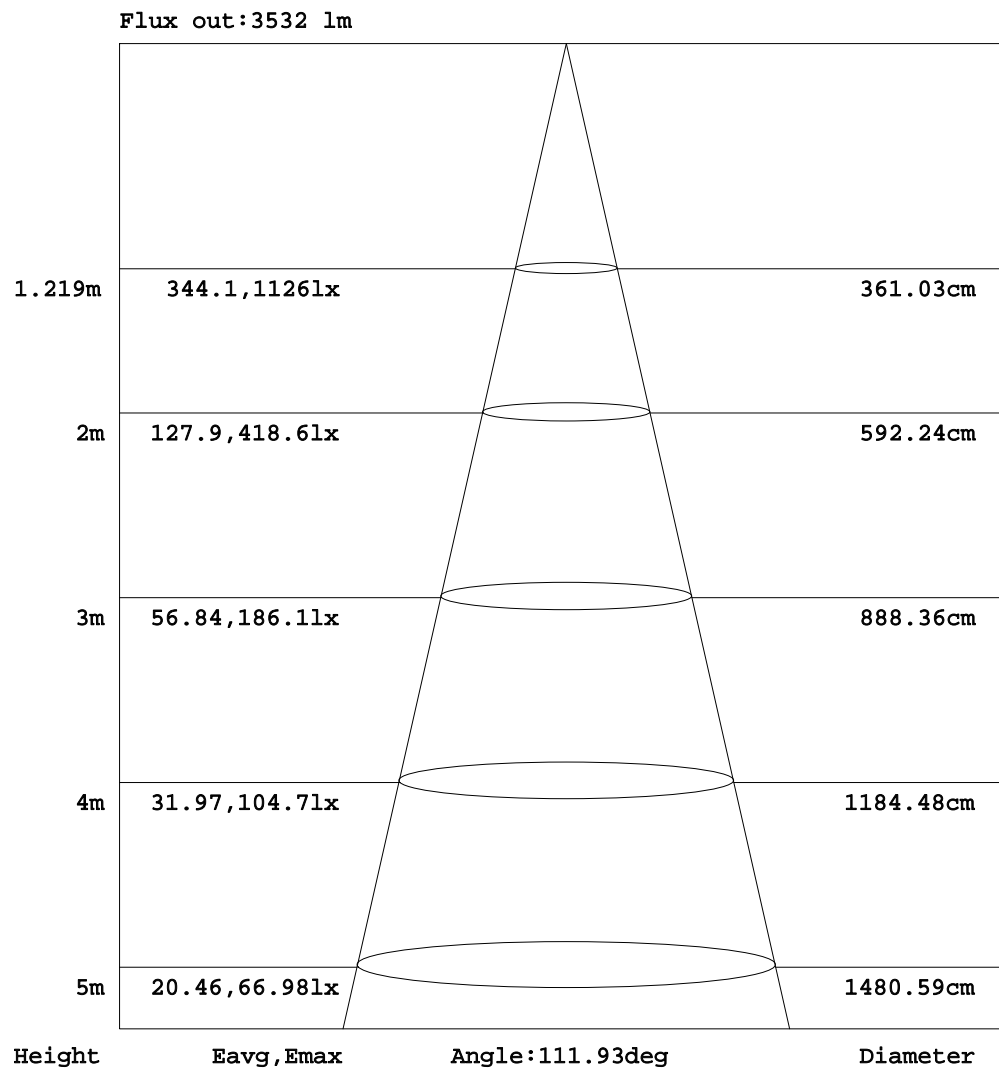


C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-08-19

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:0.3583A P:42.60W PF:0.9905 Lamp Flux:2653.63x2 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:



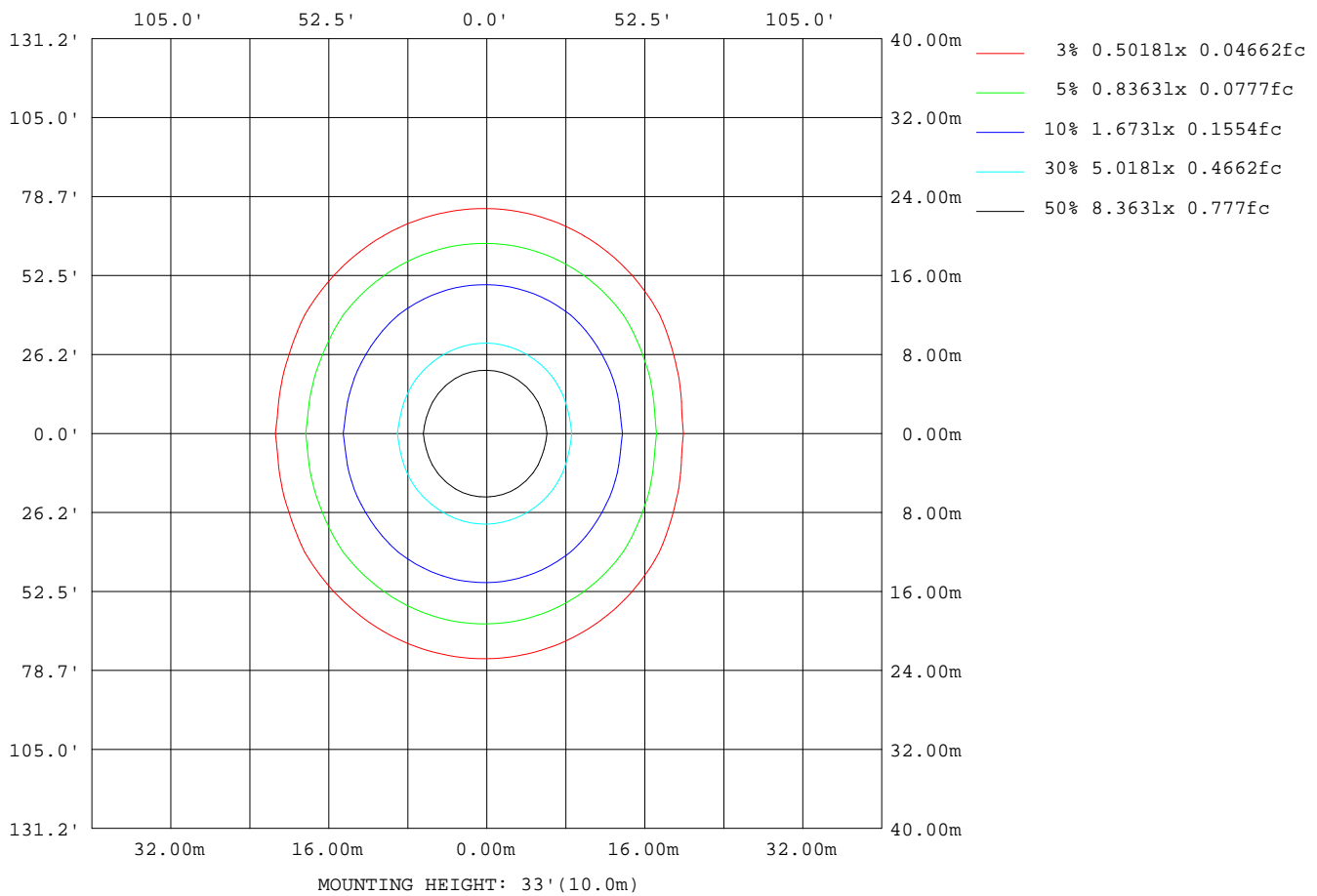
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.3583A P:42.60W PF:0.9905 Lamp Flux:2653.63x2 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:0.3583A P:42.60W PF:0.9905 Lamp Flux:2653.63x2 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:

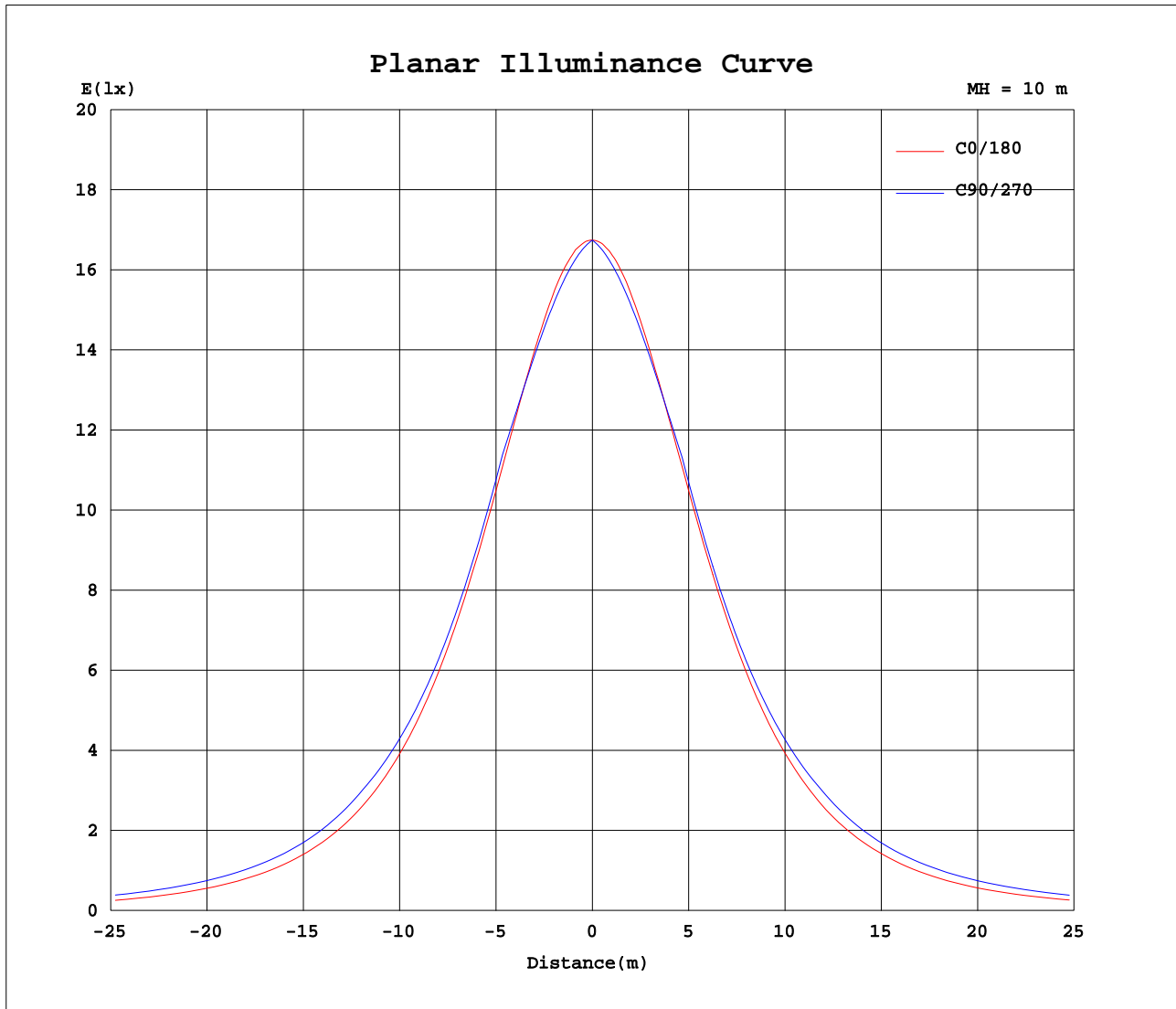
AvgL	cd/m2
L_0~180(65)av	10914
L_0~180(75)av	9057
L_0~180(85)av	4760
L_90~270(65)av	14981
L_90~270(75)av	17743
L_90~270(85)av	32433
L_45(65)av	13392
L_45(75)av	14692
L_45(85)av	23850

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:

