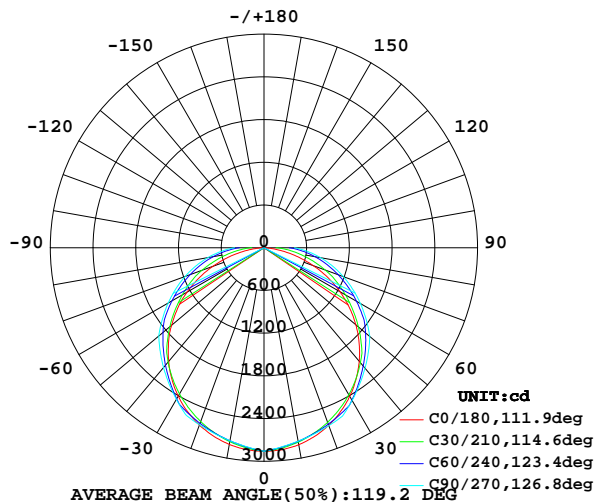


LUMINAIRE PHOTOMETRIC TEST REPORT

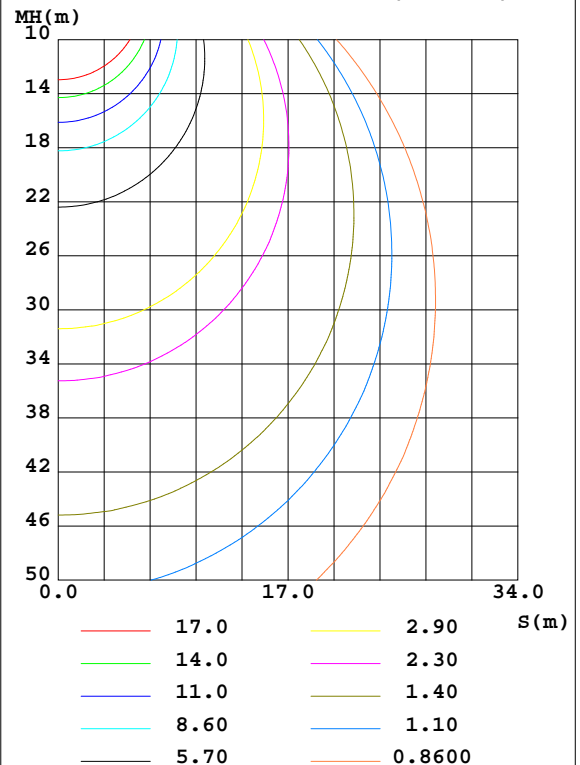
Test:U:120.3V I:0.6463A P:77.01W PF:0.9905 Lamp Flux:4529.77x2 lm		
NAME: MSS8-40/60/80/D10/U/35-40-50	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: EVERFINE	SUR.:2438*52	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 117.64 lm/W			
MODEL	3500K	I _{max} (cd)	2858	S/MH(C0/180)	1.25
NOMINAL POWER(W)	80	LOR(%)	100.0	S/MH(C90/270)	1.28
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	9059.5	η UP,DN(C0-180)	0.0,50.1
NOMINAL FLUX(lm)	4529.77	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	2850	2817	2809	2816	2845	2813	2805	2815	0- 5	67.74	67.74	0.75,0.75
10	2809	2763	2759	2762	2806	2758	2752	2759	5- 10	199.7	267.5	2.95,2.95
15	2743	2698	2709	2694	2740	2688	2699	2693	10- 15	324.4	591.8	6.53,6.53
20	2655	2620	2660	2614	2650	2607	2646	2611	15- 20	439.1	1031	11.4,11.4
25	2541	2532	2610	2526	2541	2515	2593	2523	20- 25	541.7	1573	17.4,17.4
30	2408	2434	2476	2430	2407	2417	2461	2426	25- 30	628.2	2201	24.3,24.3
35	2254	2312	2342	2307	2256	2294	2328	2303	30- 35	692.7	2894	31.9,31.9
40	2081	2138	2208	2136	2082	2125	2195	2132	35- 40	735.6	3629	40.1,40.1
45	1890	1964	2074	1962	1899	1953	2062	1960	40- 45	757.5	4387	48.4,48.4
50	1685	1787	1940	1786	1693	1781	1930	1785	45- 50	759.5	5146	56.8,56.8
55	1464	1613	1751	1613	1479	1608	1742	1613	50- 55	739.9	5886	65,65
60	1231	1436	1562	1439	1249	1434	1554	1436	55- 60	696.6	6583	72.7,72.7
65	988.2	1224	1374	1226	1008	1224	1367	1225	60- 65	633.9	7217	79.7,79.7
70	738.6	1020	1185	1019	763.3	1021	1179	1021	65- 70	555.8	7772	85.8,85.8
75	491.0	823.8	996.3	820.1	523.6	824.1	991.3	823.7	70- 75	466.3	8239	90.9,90.9
80	260.3	634.6	806.8	629.5	290.6	634.8	798.7	631.8	75- 80	370.0	8609	95,95
85	77.06	452.1	617.3	451.2	102.5	450.9	606.1	445.1	80- 85	272.0	8881	98,98
90	1.529	274.6	427.8	277.6	1.449	271.7	413.5	263.2	85- 90	178.7	9060	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		

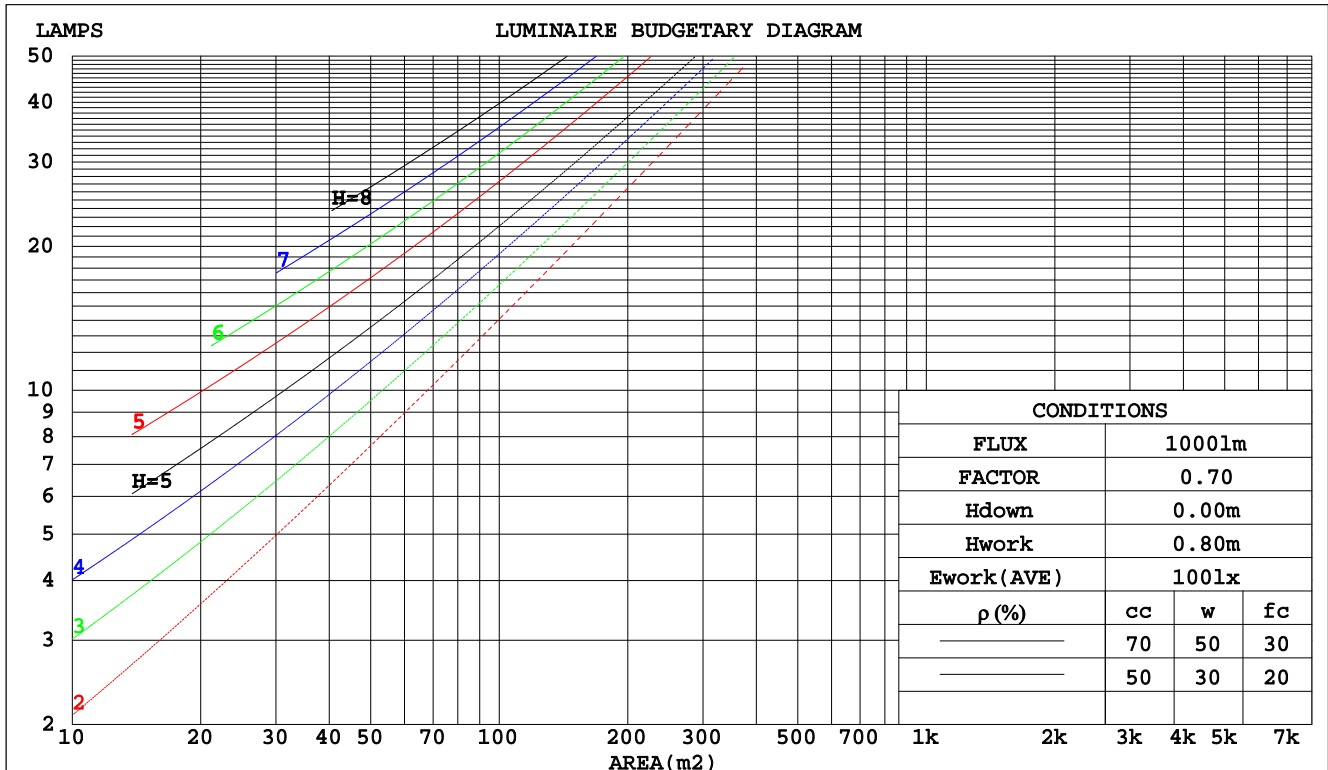
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-08-19

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:0.6463A P:77.01W PF:0.9905 Lamp Flux:4529.77x2 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:0.6463A P:77.01W PF:0.9905 Lamp Flux:4529.77x2 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:0.6463A P:77.01W PF:0.9905 Lamp Flux:4529.77x2 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	23.0	24.6	23.3	24.8	25.0	24.1	25.7	24.4	25.9	26.1
3H	24.5	26.0	24.8	26.2	26.4	26.2	27.7	26.5	28.0	28.2
4H	25.0	26.4	25.3	26.7	26.9	27.3	28.7	27.6	29.0	29.3
6H	25.3	26.7	25.7	27.0	27.2	28.4	29.8	28.8	30.0	30.3
8H	25.4	26.7	25.8	27.0	27.3	29.0	30.3	29.3	30.6	30.9
12H	25.4	26.7	25.8	27.0	27.3	29.6	30.9	30.0	31.2	31.5
4H 2H	23.9	25.3	24.2	25.6	25.8	24.7	26.1	25.0	26.4	26.7
3H	25.6	26.9	26.0	27.2	27.5	27.1	28.3	27.4	28.6	28.9
4H	26.3	27.5	26.7	27.8	28.1	28.3	29.5	28.7	29.8	30.2
6H	26.8	27.9	27.2	28.2	28.6	29.7	30.7	30.1	31.0	31.4
8H	27.0	27.9	27.4	28.3	28.7	30.3	31.3	30.8	31.7	32.1
12H	27.0	27.9	27.4	28.3	28.7	31.1	32.0	31.5	32.4	32.8
8H 4H	27.0	28.0	27.4	28.3	28.7	28.7	29.7	29.1	30.0	30.4
6H	27.8	28.6	28.2	29.0	29.4	30.3	31.1	30.7	31.5	31.9
8H	28.1	28.8	28.5	29.2	29.7	31.1	31.9	31.6	32.3	32.7
12H	28.3	28.9	28.7	29.3	29.8	32.1	32.7	32.6	33.2	33.7
12H 4H	27.1	28.0	27.6	28.4	28.8	28.7	29.6	29.1	30.0	30.4
6H	28.1	28.8	28.5	29.2	29.7	30.4	31.1	30.8	31.5	32.0
8H	28.5	29.1	29.0	29.6	30.1	31.3	32.0	31.8	32.4	32.9
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 9060 lm Total Lamp Luminous Flux.(8log(F/F0) = 7.7)

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:

UTILIZATION FACTORS TABLE

Test:U:120.3V I:0.6463A P:77.01W PF:0.9905 Lamp Flux:4529.77x2 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:0.6463A P:77.01W PF:0.9905 Lamp Flux:4529.77x2 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):

4386.7 lm

%lum = 48.4%

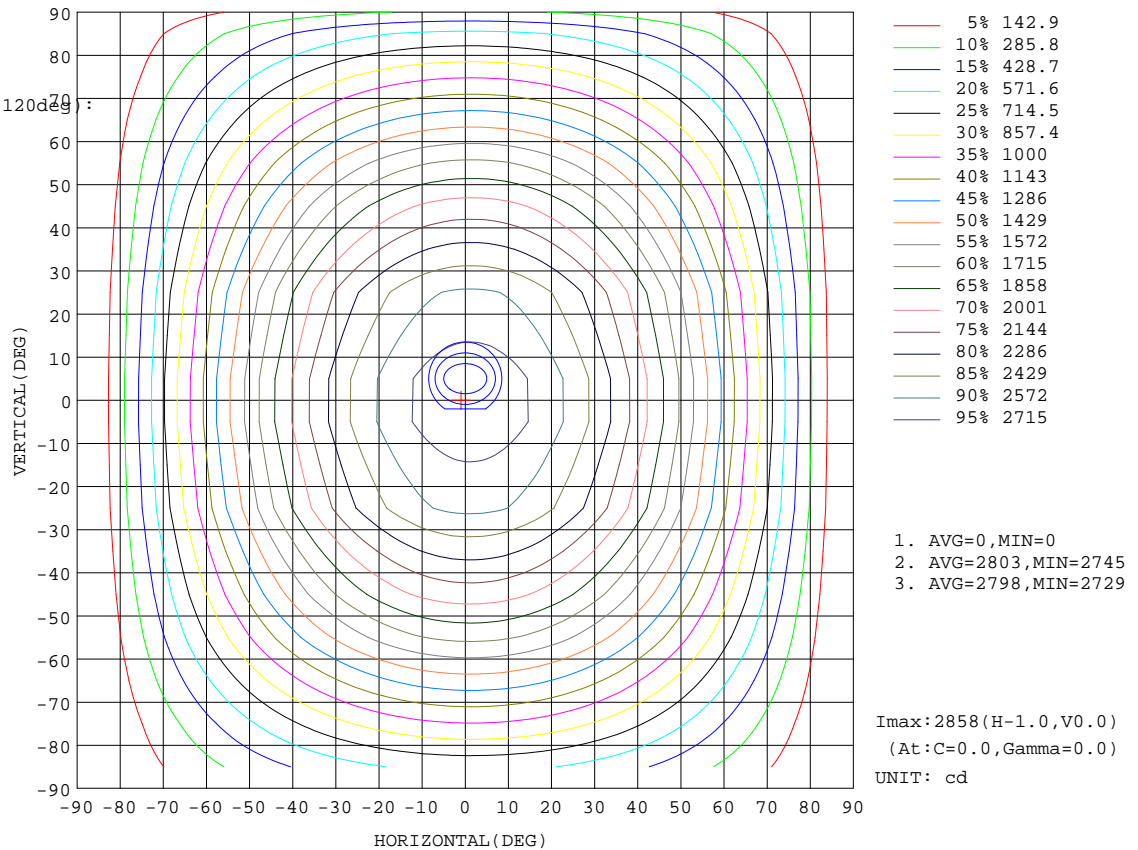
%lamp = 48.4%

Conical surface Flux(120deg):

6582.7 lm

%lum = 72.7%

%lamp = 72.7%

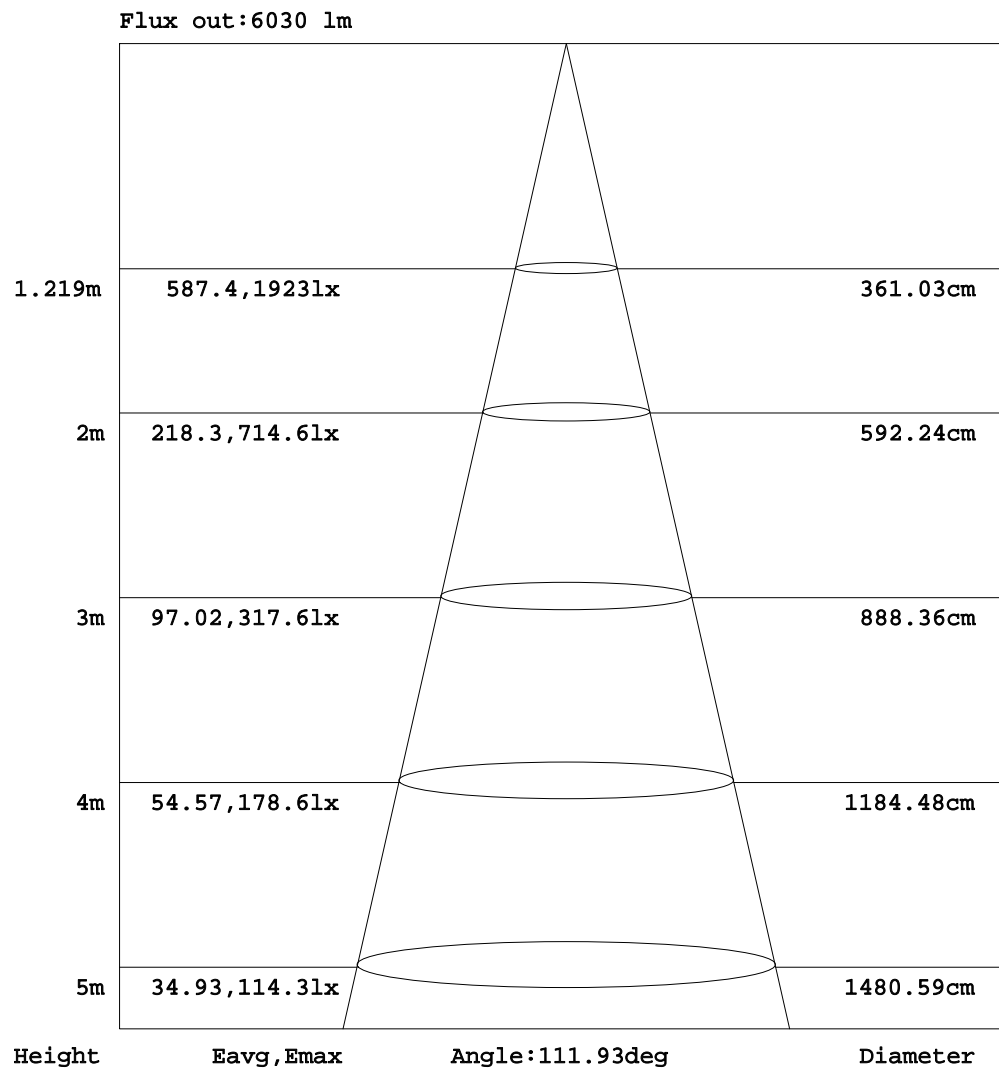


C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-08-19

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:0.6463A P:77.01W PF:0.9905 Lamp Flux:4529.77x2 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:



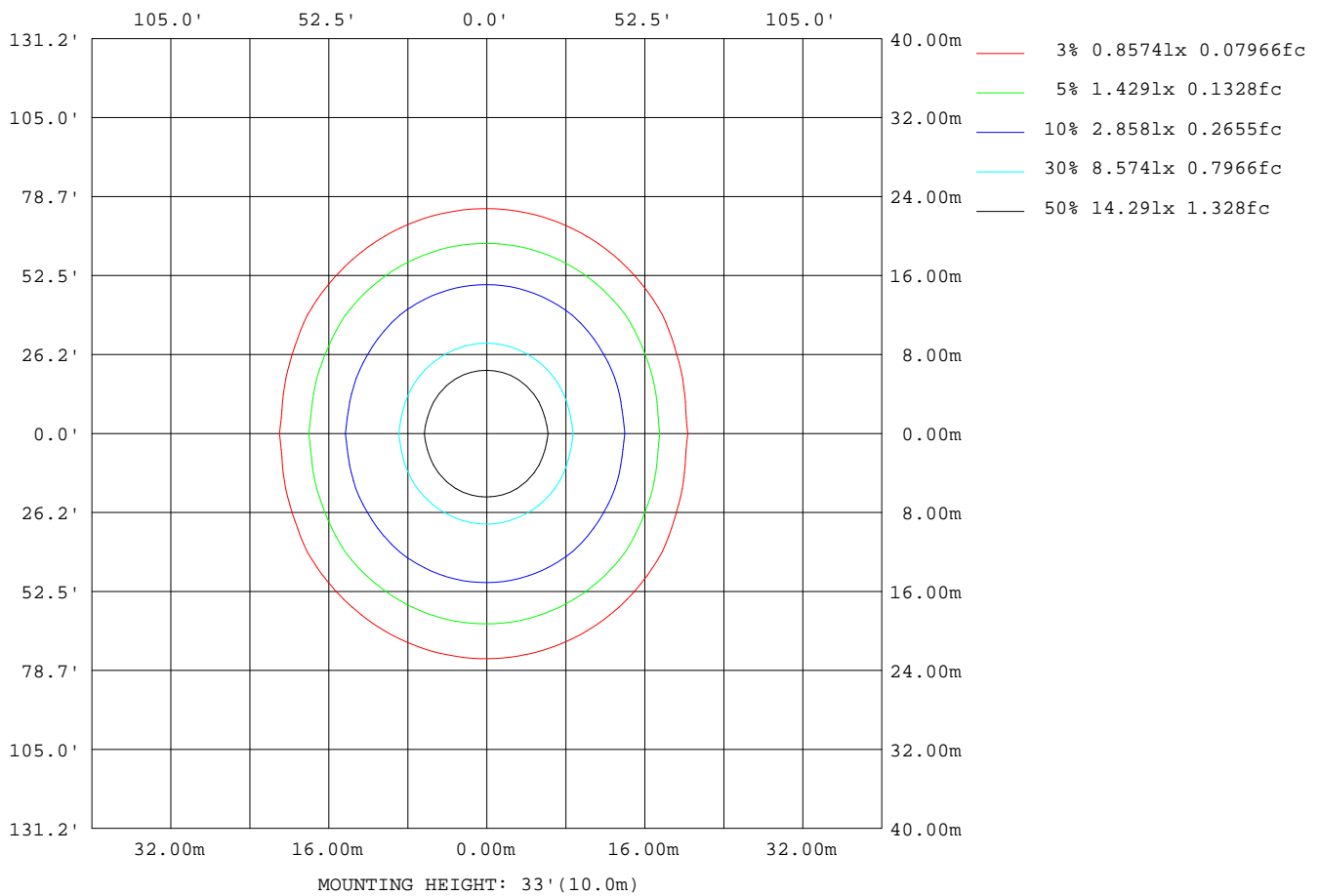
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.6463A P:77.01W PF:0.9905 Lamp Flux:4529.77x2 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:0.6463A P:77.01W PF:0.9905 Lamp Flux:4529.77x2 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:

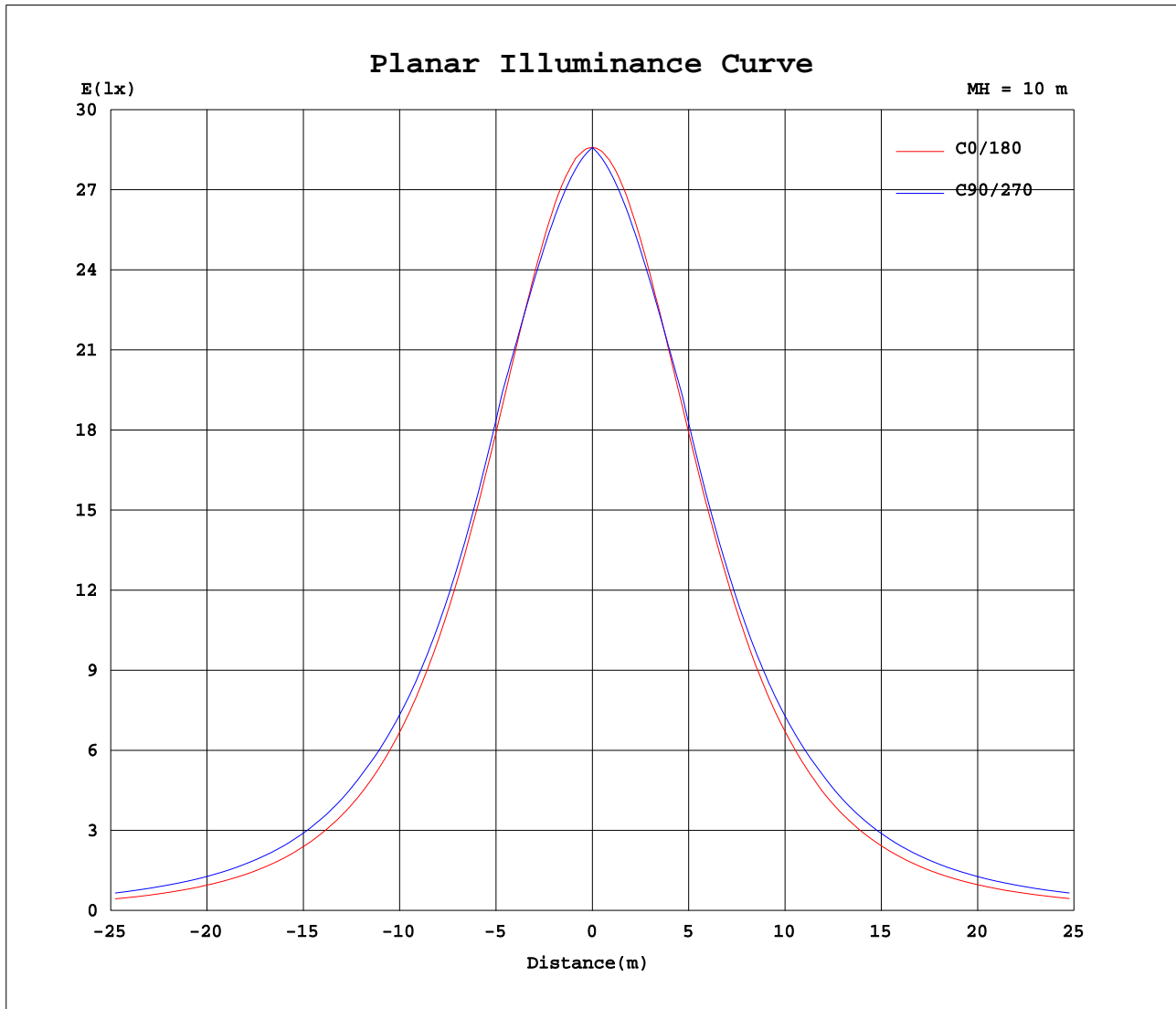
AvgL	cd/m2
L_0~180(65)av	18630
L_0~180(75)av	15461
L_0~180(85)av	8125
L_90~270(65)av	25573
L_90~270(75)av	30288
L_90~270(85)av	55364
L_45(65)av	22861
L_45(75)av	25080
L_45(85)av	40712

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:

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