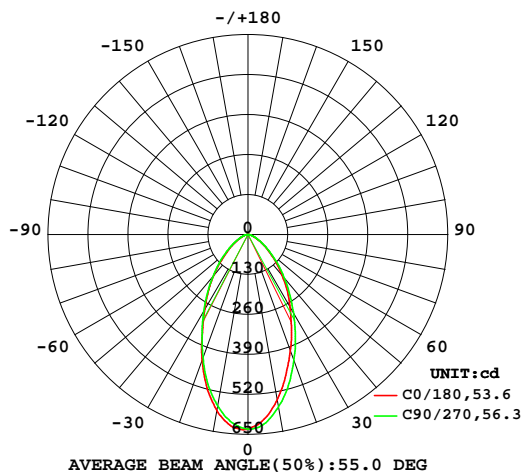


LUMINAIRE PHOTOMETRIC TEST REPORT

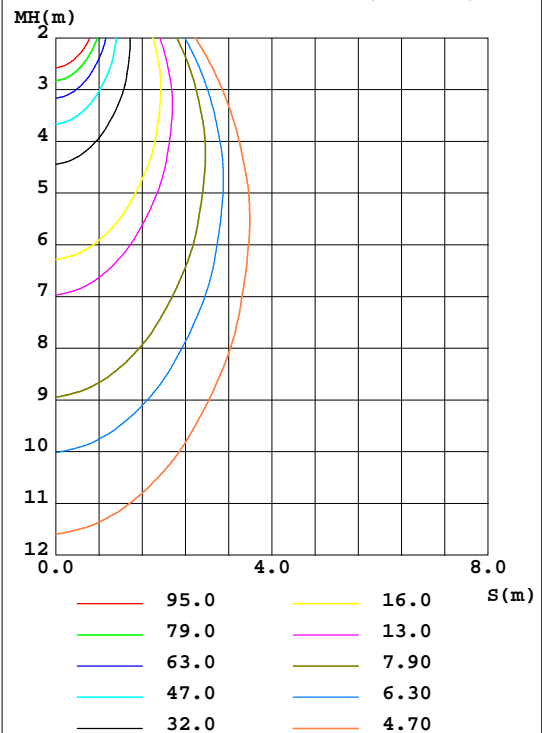
Test:U:230.80V I:0.0331A P:7.2897W PF:0.9554 Freq:49.99Hz Lamp Flux:712.1x1 lm		
NAME: 5RS105-8	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 97.69 lm/W			
MODEL	4000K	I _{max} (cd)	634.8	S/MH(C0/180)	0.82
NOMINAL POWER(W)	7	LOR(%)	100.0	S/MH(C90/270)	0.81
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	712.10	h UP,DN(C0-180)	0.0,50.3
NOMINAL FLUX(lm)	712.1	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.0,49.7
LAMPS INSIDE	1	h up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	230V	h down(%)	100.0	CIBSE SHR MAX	0.90

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
 C Interval: 2.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:will
 Test Date:05 June 2023

g Range: 0 - 90DEG
 Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.416
 Humidity:65.0%
 Test Distance:8.989m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

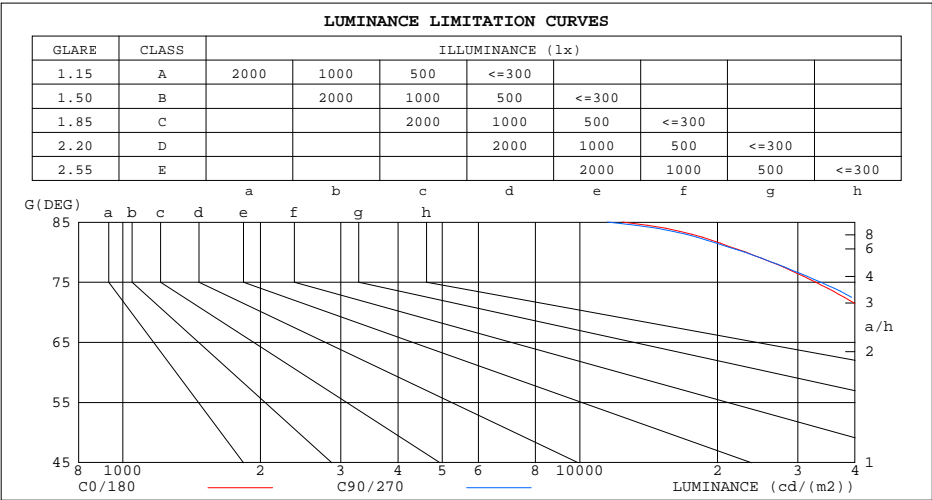
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
5	602.8	611.3	617.9	623.4	625.4	620.4	613.1	607.7	0- 5	14.91	14.91	2.09,2.09
10	546.2	559.3	569.6	577.9	581.4	575.9	566.4	556.9	5- 10	42.25	57.16	8.03,8.03
15	474.6	494.7	508.4	515.2	516.4	512.9	504.6	491.9	10- 15	63.35	120.5	16.9,16.9
20	403.6	424.3	436.9	439.8	437.4	434.4	428.2	417.8	15- 20	76.47	197.0	27.7,27.7
25	336.0	356.0	365.2	360.0	351.5	352.6	353.4	347.1	20- 25	81.74	278.7	39.1,39.1
30	273.9	291.0	298.1	291.2	282.0	285.0	288.1	283.6	25- 30	80.58	359.3	50.5,50.5
35	223.3	233.7	237.4	231.9	225.1	226.8	229.3	227.6	30- 35	75.70	435.0	61.1,61.1
40	172.8	181.2	184.3	179.7	174.0	174.6	176.1	175.1	35- 40	67.59	502.6	70.6,70.6
45	130.9	137.0	138.6	133.5	128.0	130.4	133.7	133.4	40- 45	57.17	559.8	78.6,78.6
50	95.55	99.54	100.1	95.39	90.94	93.84	97.62	97.68	45- 50	46.03	605.8	85.1,85.1
55	66.93	69.94	70.42	67.03	63.81	65.87	68.56	68.54	50- 55	35.34	641.1	90.90
60	45.22	47.40	47.79	45.40	43.18	44.98	47.12	46.90	55- 60	25.98	667.1	93.7,93.7
65	29.61	31.05	31.35	29.86	28.52	29.99	31.56	31.21	60- 65	18.37	685.5	96.3,96.3
70	18.56	19.28	19.47	18.81	18.27	19.23	20.14	19.78	65- 70	12.39	697.9	98.98
75	10.68	10.84	10.95	10.95	11.02	11.56	11.93	11.57	70- 75	7.836	705.7	99.1,99.1
80	5.034	4.957	5.005	5.212	5.478	5.776	5.906	5.633	75- 80	4.339	710.1	99.7,99.7
85	1.356	1.251	1.259	1.411	1.611	1.808	1.894	1.728	80- 85	1.816	711.9	100,100
90	0.0514	0.0546	0.0514	0.0386	0.0257	0.0225	0.0257	0.0354	85- 90	0.2275	712.1	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: 2.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:will
 Test Date:05 June 2023

g Range: 0 - 90DEG
 g Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.416
 Humidity:65.0%
 Test Distance:8.989m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:230.80V I:0.0331A P:7.2897W PF:0.9554 Freq:49.99Hz Lamp Flux:712.1x1 lm		
NAME: 5RS105—8	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	G(270)	LUMINANCE (cd/(m2))
85	12389	11500
80	23081	22946
75	32840	33694
70	43194	45328
65	55775	59062
60	72010	76095
55	92907	97745
50	118354	123991
45	147351	156087

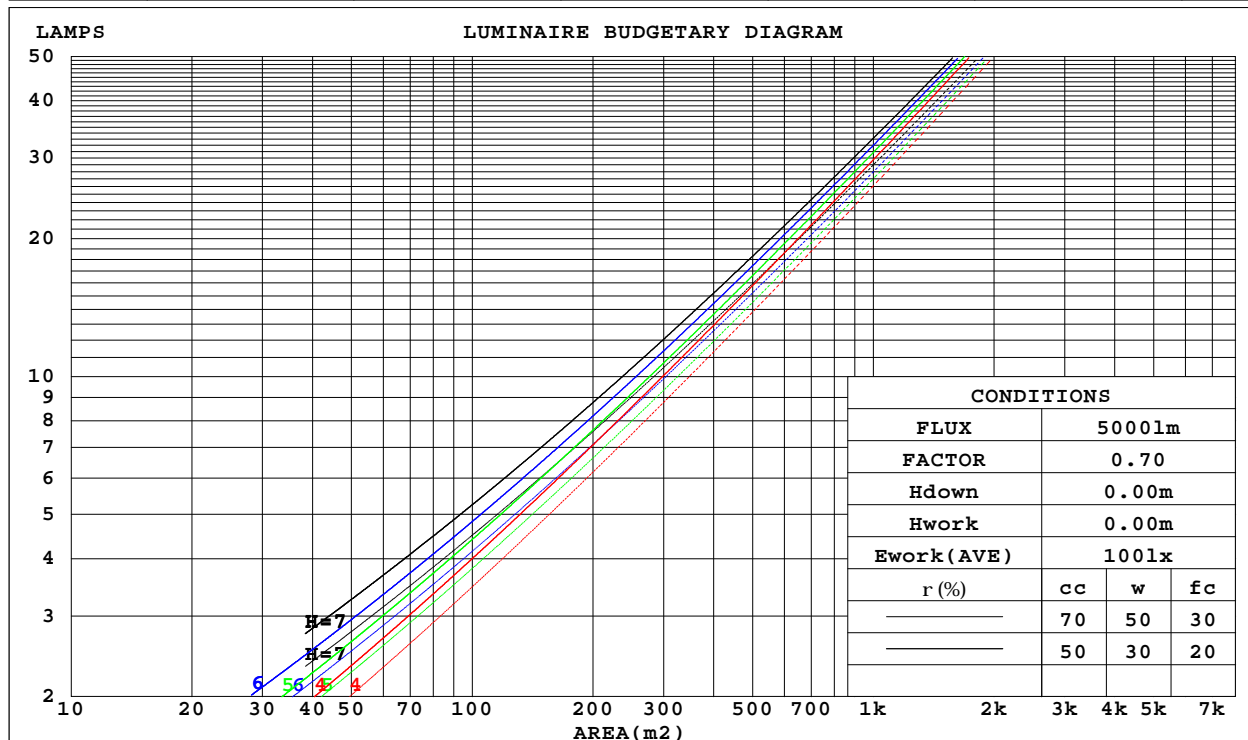
C Range: 0 - 360DEG
C Interval: 2.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:will
Test Date:05 June 2023

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.416
Humidity:65.0%
Test Distance:8.989m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.80V I:0.0331A P:7.2897W PF:0.9554 Freq:49.99Hz Lamp Flux:712.1x1 lm		
NAME: 5RS105-8	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

r _{cc}	80%			70%			50%			30%			10%			0
r _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r _{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	.00
1.0	1.08	1.05	1.03	1.06	1.03	1.01	1.02	.00	.98	.98	.97	.95	.95	.93	.92	.90
2.0	.98	.93	.89	.97	.92	.88	.93	.89	.86	.90	.87	.84	.87	.85	.82	.81
3.0	.90	.84	.79	.88	.83	.78	.85	.81	.77	.83	.79	.75	.81	.77	.74	.72
4.0	.82	.75	.70	.81	.74	.70	.79	.73	.69	.76	.72	.68	.74	.70	.67	.65
5.0	.75	.68	.63	.74	.68	.63	.72	.67	.62	.71	.66	.62	.69	.65	.61	.59
6.0	.70	.62	.57	.69	.62	.57	.67	.61	.57	.66	.60	.56	.64	.59	.56	.54
7.0	.65	.57	.52	.64	.57	.52	.62	.56	.52	.61	.56	.52	.60	.55	.51	.50
8.0	.60	.53	.48	.59	.53	.48	.58	.52	.48	.57	.52	.48	.56	.51	.47	.46
9.0	.56	.49	.45	.56	.49	.44	.55	.48	.44	.54	.48	.44	.53	.48	.44	.42
10.0	.53	.46	.41	.52	.46	.41	.51	.45	.41	.50	.45	.41	.50	.45	.41	.39



C Range: 0 - 360DEG
C Interval: 2.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:will
Test Date:05 June 2023

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.416
Humidity:65.0%
Test Distance:8.989m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:230.80V I:0.0331A P:7.2897W PF:0.9554 Freq:49.99Hz Lamp Flux:712.1x1 lm		
NAME: 5RS105—8	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio Wall Exitance Coefficients(WEC)															
0.0																
1.0	.222	.126	.040	.215	.123	.039	.202	.116	.037	.191	.110	.035	.180	.104	.034	
2.0	.215	.118	.036	.209	.115	.035	.198	.110	.034	.188	.105	.033	.178	.101	.032	
3.0	.204	.108	.032	.199	.106	.032	.189	.102	.031	.180	.099	.030	.172	.095	.029	
4.0	.192	.100	.029	.188	.098	.029	.180	.095	.028	.172	.092	.028	.165	.089	.027	
5.0	.181	.092	.027	.178	.091	.027	.170	.089	.026	.163	.086	.026	.157	.084	.025	
6.0	.171	.086	.025	.168	.085	.024	.161	.083	.024	.155	.081	.024	.150	.079	.023	
7.0	.162	.080	.023	.159	.079	.023	.153	.077	.022	.148	.076	.022	.142	.074	.022	
8.0	.153	.075	.021	.151	.074	.021	.145	.073	.021	.141	.071	.021	.136	.070	.020	
9.0	.145	.070	.020	.143	.070	.020	.138	.068	.019	.134	.067	.019	.130	.066	.019	
10.0	.138	.066	.018	.136	.066	.018	.132	.065	.018	.128	.063	.018	.124	.062	.018	

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	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	.174	.157	.141	.149	.135	.122	.102	.093	.084	.059	.054	.049	.019	.017	.016	
2.0	.162	.132	.107	.139	.114	.093	.095	.079	.065	.055	.046	.038	.018	.015	.012	
3.0	.152	.114	.084	.130	.098	.073	.089	.068	.051	.052	.040	.030	.017	.013	.010	
4.0	.143	.100	.067	.123	.086	.058	.084	.060	.041	.049	.035	.024	.016	.011	.008	
5.0	.135	.089	.054	.116	.077	.047	.080	.054	.033	.046	.031	.020	.015	.010	.007	
6.0	.128	.080	.045	.110	.069	.039	.076	.048	.028	.044	.028	.017	.014	.009	.005	
7.0	.121	.073	.038	.104	.063	.033	.072	.044	.024	.042	.026	.014	.014	.009	.005	
8.0	.116	.067	.033	.100	.058	.029	.069	.041	.020	.040	.024	.012	.013	.008	.004	
9.0	.110	.061	.029	.095	.053	.025	.066	.038	.018	.038	.022	.011	.012	.007	.003	
10.0	.105	.057	.025	.091	.050	.022	.063	.035	.016	.037	.021	.009	.012	.007	.003	

C Range: 0 - 360DEG
C Interval: 2.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:will
Test Date:05 June 2023

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.416
Humidity:65.0%
Test Distance:8.989m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:230.80V I:0.0331A P:7.2897W PF:0.9554 Freq:49.99Hz Lamp Flux:712.1x1 lm											
NAME: 5RS105—8					TYPE:			WEIGHT:			
SPEC.:					DIM.:			SERIAL No.:			
MFR.: EVERFINE					SUR.:			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	27.3	28.5	27.6	28.7	28.9	27.5	28.7	27.8	28.9	29.1	
	3H	27.7	28.7	27.9	29.0	29.2	27.9	29.0	28.2	29.2	29.4
	4H	27.7	28.8	28.0	29.0	29.2	28.0	29.0	28.2	29.2	29.5
	6H	27.7	28.7	28.0	29.0	29.2	28.0	28.9	28.3	29.2	29.4
	8H	27.7	28.6	28.0	28.9	29.2	27.9	28.9	28.2	29.1	29.4
	12H	27.7	28.6	28.0	28.8	29.1	27.9	28.8	28.2	29.1	29.3
4H	2H	27.5	28.5	27.8	28.7	29.0	27.7	28.7	28.0	28.9	29.2
	3H	27.9	28.8	28.3	29.1	29.4	28.1	29.0	28.5	29.3	29.6
	4H	28.1	28.9	28.4	29.2	29.5	28.3	29.1	28.6	29.4	29.7
	6H	28.1	28.8	28.5	29.2	29.5	28.3	29.0	28.7	29.3	29.7
	8H	28.1	28.8	28.5	29.1	29.5	28.3	28.9	28.7	29.3	29.7
	12H	28.1	28.7	28.5	29.1	29.4	28.3	28.9	28.7	29.2	29.6
8H	4H	28.0	28.7	28.4	29.1	29.4	28.2	28.9	28.6	29.2	29.6
	6H	28.1	28.7	28.6	29.1	29.5	28.3	28.9	28.7	29.2	29.7
	8H	28.1	28.6	28.6	29.0	29.5	28.3	28.8	28.8	29.2	29.7
	12H	28.1	28.5	28.6	29.0	29.5	28.3	28.7	28.8	29.1	29.6
12H	4H	28.0	28.6	28.4	29.0	29.4	28.2	28.8	28.6	29.2	29.6
	6H	28.1	28.6	28.6	29.0	29.4	28.3	28.8	28.7	29.2	29.6
	8H	28.1	28.5	28.6	29.0	29.4	28.3	28.7	28.8	29.1	29.6
Variations with the observer position at spacings:											
S = 1.0H	+ 0.9 / - 1.2					+ 0.8 / - 1.2					
1.5H	+ 0.7 / - 0.6					+ 0.7 / - 0.7					
2.0H	+ 1.8 / - 1.6					+ 1.8 / - 1.6					

CIE Pub.117, 712.1 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -1.2)
Area: 0.001256 m2

C Range: 0 - 360DEG
C Interval: 2.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:will
Test Date:05 June 2023

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.416
Humidity:65.0%
Test Distance:8.989m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:230.80V I:0.0331A P:7.2897W PF:0.9554 Freq:49.99Hz Lamp Flux:712.1x1 lm		
NAME: 5RS105—8	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

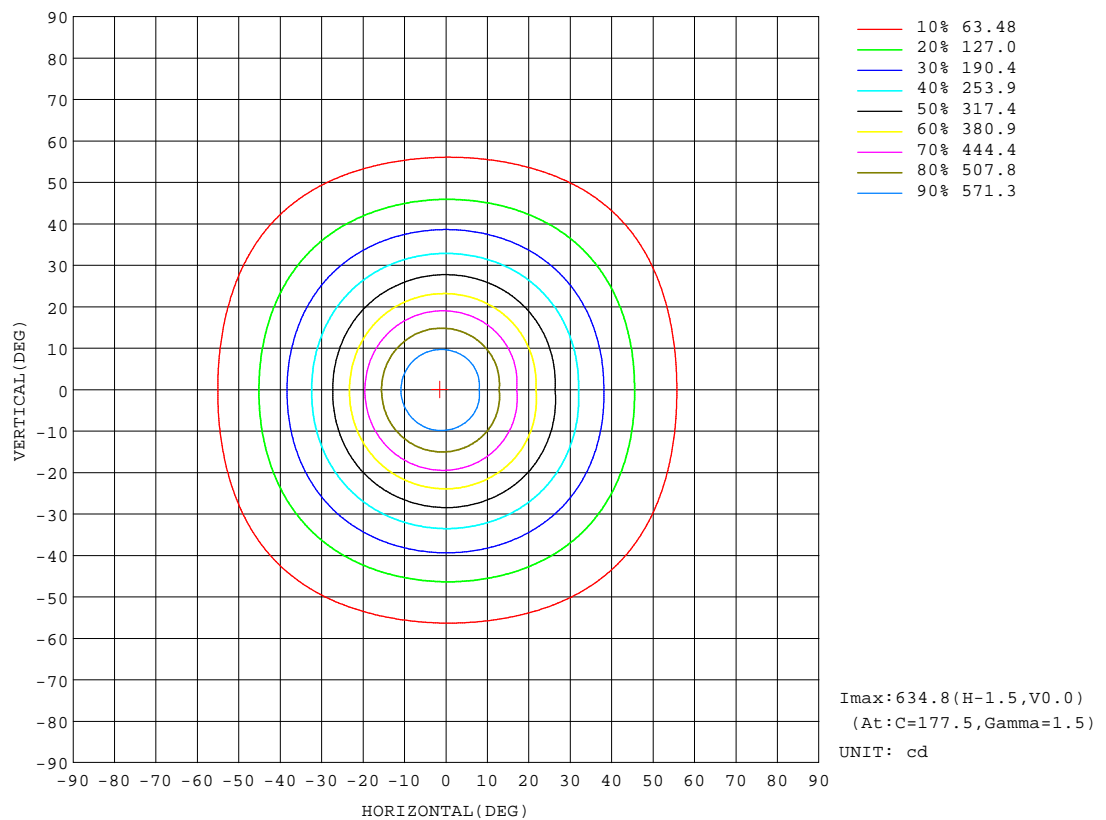
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	73	64	59	72	64	59	71	63	58	54
0.80	82	74	68	81	73	68	80	73	68	63
1.00	89	81	76	88	81	76	86	81	75	70
1.25	95	87	82	94	87	82	91	85	81	76
1.50	99	92	87	97	91	86	95	89	85	80
2.00	103	97	93	102	96	92	99	94	91	84
2.50	106	100	96	104	99	95	101	97	93	87
3.00	108	103	100	106	102	99	103	99	96	89
4.00	111	107	104	109	105	102	105	102	100	92
5.00	112	109	106	110	107	105	106	104	102	94
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
 C Interval: 2.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:will
 Test Date:05 June 2023

g Range: 0 - 90DEG
 g Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.416
 Humidity:65.0%
 Test Distance:8.989m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:230.80V I:0.0331A P:7.2897W PF:0.9554 Freq:49.99Hz Lamp Flux:712.1x1 lm		
NAME: 5RS105-8	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



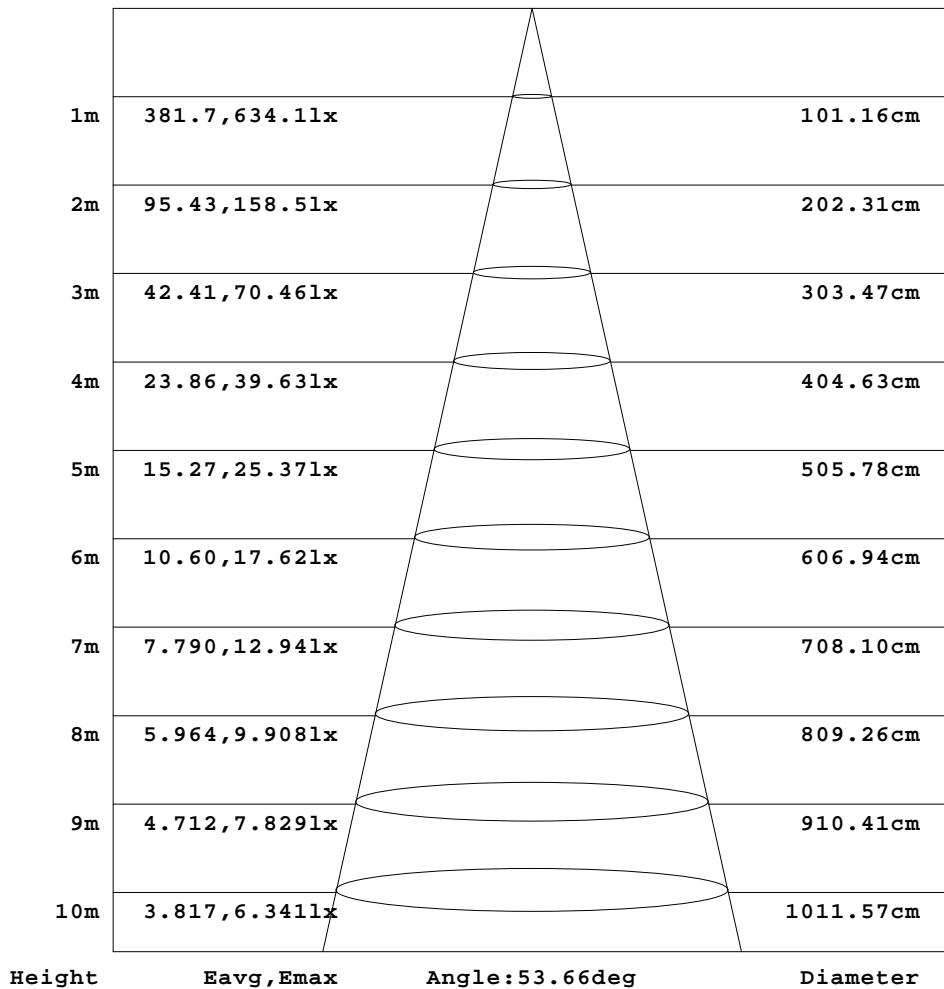
C Range: 0 - 360DEG
 C Interval: 2.5DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: will
 Test Date: 05 June 2023

deg Range: 0 - 90DEG
 Interval: 0.5DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.416
 Humidity: 65.0%
 Test Distance: 8.989m [K=1.0000]
 Remarks:

AAI Figure

Test:U:230.80V I:0.0331A P:7.2897W PF:0.9554 Freq:49.99Hz Lamp Flux:712.1x1 lm		
NAME: 5RS105-8	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

Flux out:311.3 lm



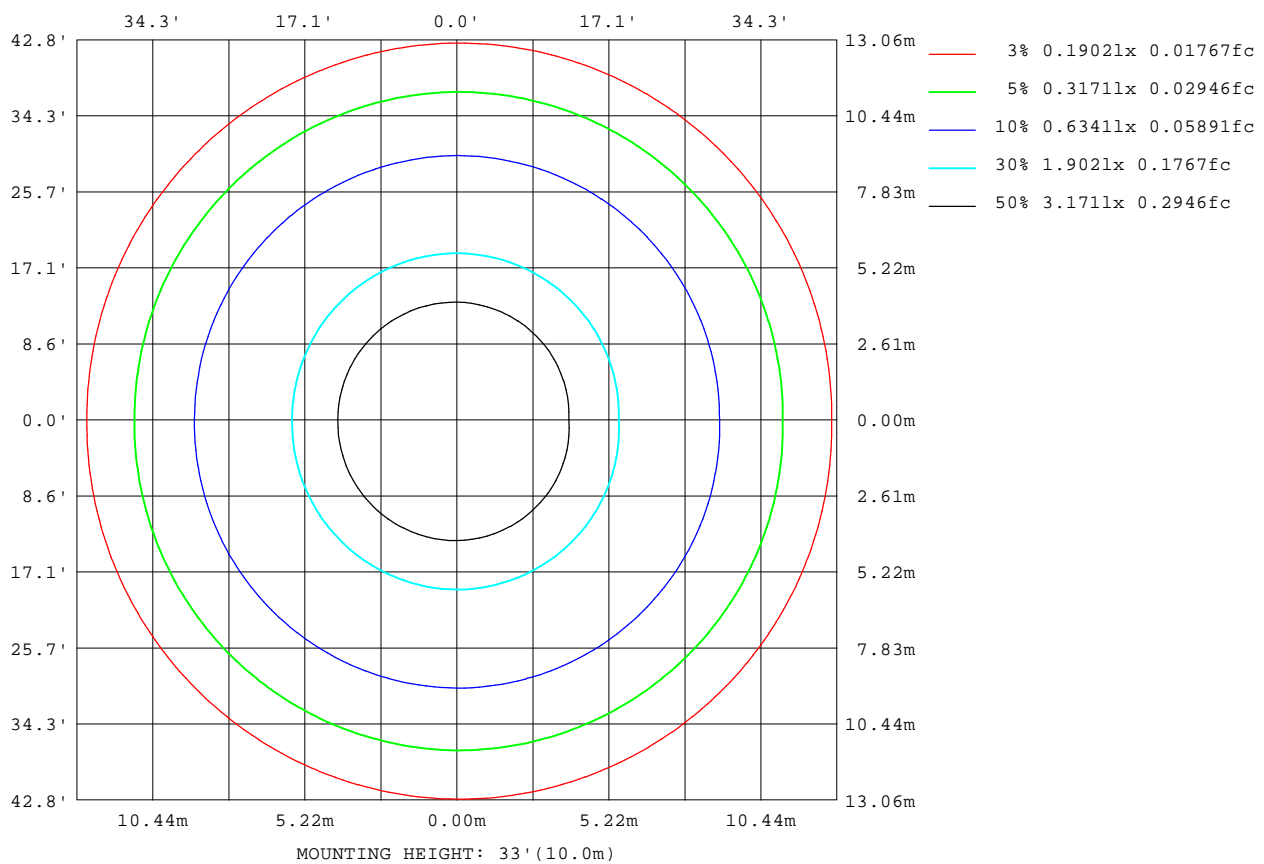
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 2.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: will
Test Date: 05 June 2023

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.416
Humidity: 65.0%
Test Distance: 8.989m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:230.80V I:0.0331A P:7.2897W PF:0.9554 Freq:49.99Hz Lamp Flux:712.1x1 lm		
NAME: 5RS105—8	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 2.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: will
Test Date: 05 June 2023

g Range: 0 - 90DEG
Interval: 0.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.416
Humidity: 65.0%
Test Distance: 8.989m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:230.80V I:0.0331A P:7.2897W PF:0.9554 Freq:49.99Hz Lamp Flux:712.1x1 lm		
NAME: 5RS105—8	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

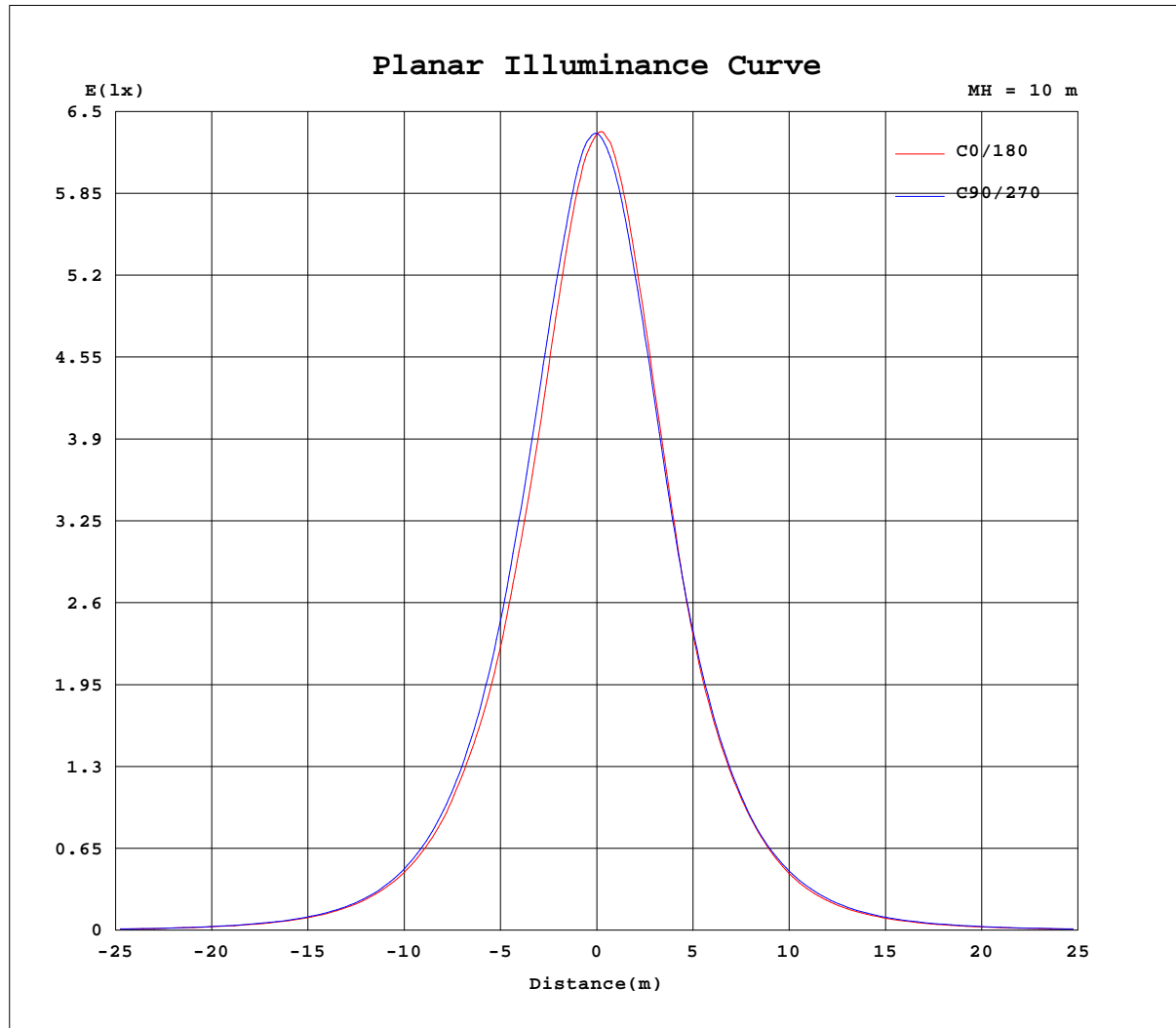
AvgL	cd/m2
L_0~180(65)av	54754
L_0~180(75)av	33371
L_0~180(85)av	13551
L_90~270(65)av	59259
L_90~270(75)av	35199
L_90~270(85)av	14402
L_45(65)av	57506
L_45(75)av	34547
L_45(85)av	14156

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 2.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:will
Test Date:05 June 2023

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.416
Humidity:65.0%
Test Distance:8.989m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 2.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: will
Test Date: 05 June 2023

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.416
Humidity: 65.0%
Test Distance: 8.989m [K=1.0000]
Remarks:

