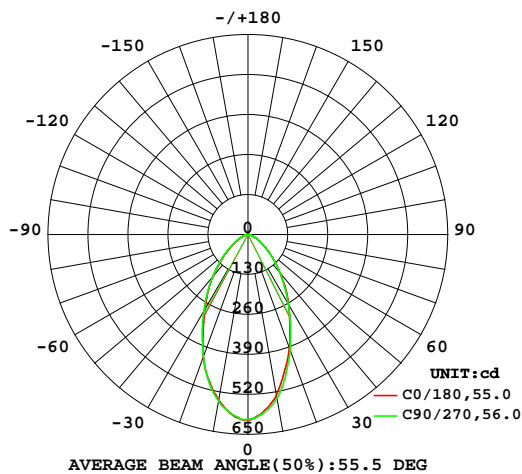


LUMINAIRE PHOTOMETRIC TEST REPORT

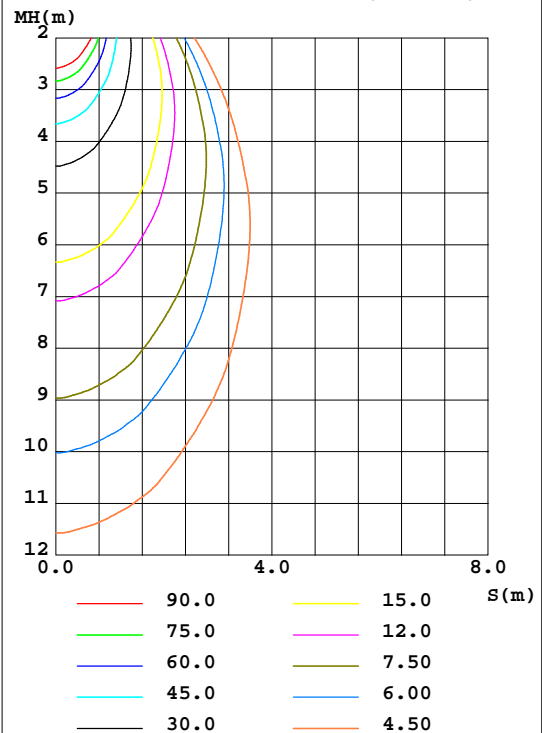
Test:U:230.85V I:0.0329A P:7.2419W PF:0.9532 Freq:49.99Hz Lamp Flux:682.186x1 lm					
NAME: 5RS105-8			TYPE:		WEIGHT:
SPEC.:			DIM.:		SERIAL No.:
MFR.: EVERFINE			SUR.:		Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 94.20 lm/W
MODEL	2700K	I _{max} (cd)	602.8	S/MH(C0/180)	0.84	
NOMINAL POWER(W)	7	LOR(%)	100.0	S/MH(C90/270)	0.84	
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	682.19	h UP,DN(C0-180)	0.0,48.8	
NOMINAL FLUX(lm)	682.186	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.0,51.2	
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:

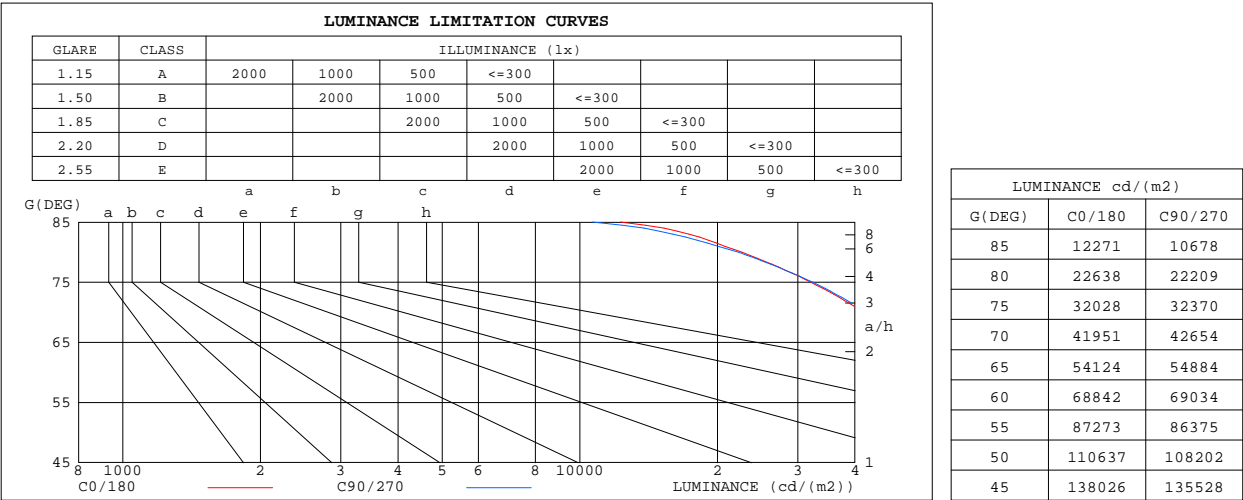
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
5	578.6	580.2	582.4	585.8	588.5	588.8	587.3	583.9	0- 5	14.18	14.18	2.08,2.08
10	532.1	537.4	541.6	544.5	546.6	549.6	549.9	543.6	5- 10	40.32	54.50	7.99,7.99
15	461.4	467.4	474.4	483.5	491.4	496.0	494.4	482.4	10- 15	60.71	115.2	16.9,16.9
20	394.2	395.6	401.2	413.6	425.0	427.6	423.5	412.4	15- 20	73.47	188.7	27.7,27.7
25	323.3	324.0	328.0	336.9	346.1	352.5	352.9	342.6	20- 25	78.28	267.0	39.1,39.1
30	265.0	262.4	264.2	272.0	280.8	287.1	288.4	280.5	25- 30	77.30	344.2	50.5,50.5
35	213.1	207.1	207.5	216.8	227.2	231.2	230.6	224.4	30- 35	72.55	416.8	61.1,61.1
40	162.6	159.3	160.7	169.0	177.6	179.6	177.6	172.0	35- 40	64.69	481.5	70.6,70.6
45	122.6	119.9	120.4	125.1	130.6	134.2	134.9	130.8	40- 45	54.68	536.2	78.6,78.6
50	89.32	87.41	87.36	89.62	92.82	96.52	98.40	95.69	45- 50	44.01	580.2	85,85
55	62.87	62.30	62.23	62.52	63.60	66.93	69.28	67.59	50- 55	33.76	613.9	90,90
60	43.23	43.38	43.35	42.83	42.81	45.08	46.95	46.08	55- 60	24.89	638.8	93.6,93.6
65	28.73	29.09	29.13	28.58	28.28	29.61	30.78	30.33	60- 65	17.69	656.5	96.2,96.2
70	18.02	18.24	18.32	18.16	18.11	18.80	19.35	19.00	65- 70	11.94	668.5	98,98
75	10.41	10.43	10.52	10.68	10.89	11.22	11.38	11.08	70- 75	7.565	676.0	99.1,99.1
80	4.937	4.810	4.844	5.102	5.394	5.561	5.578	5.361	75- 80	4.198	680.2	99.7,99.7
85	1.343	1.184	1.169	1.346	1.572	1.735	1.791	1.651	80- 85	1.745	682.0	100,100
90	0.0514	0.0450	0.0386	0.0313	0.0257	0.0233	0.0257	0.0354	85- 90	0.2201	682.2	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:230.85V I:0.0329A P:7.2419W PF:0.9532 Freq:49.99Hz Lamp Flux:682.186x1 lm		
NAME: 5RS105—8	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



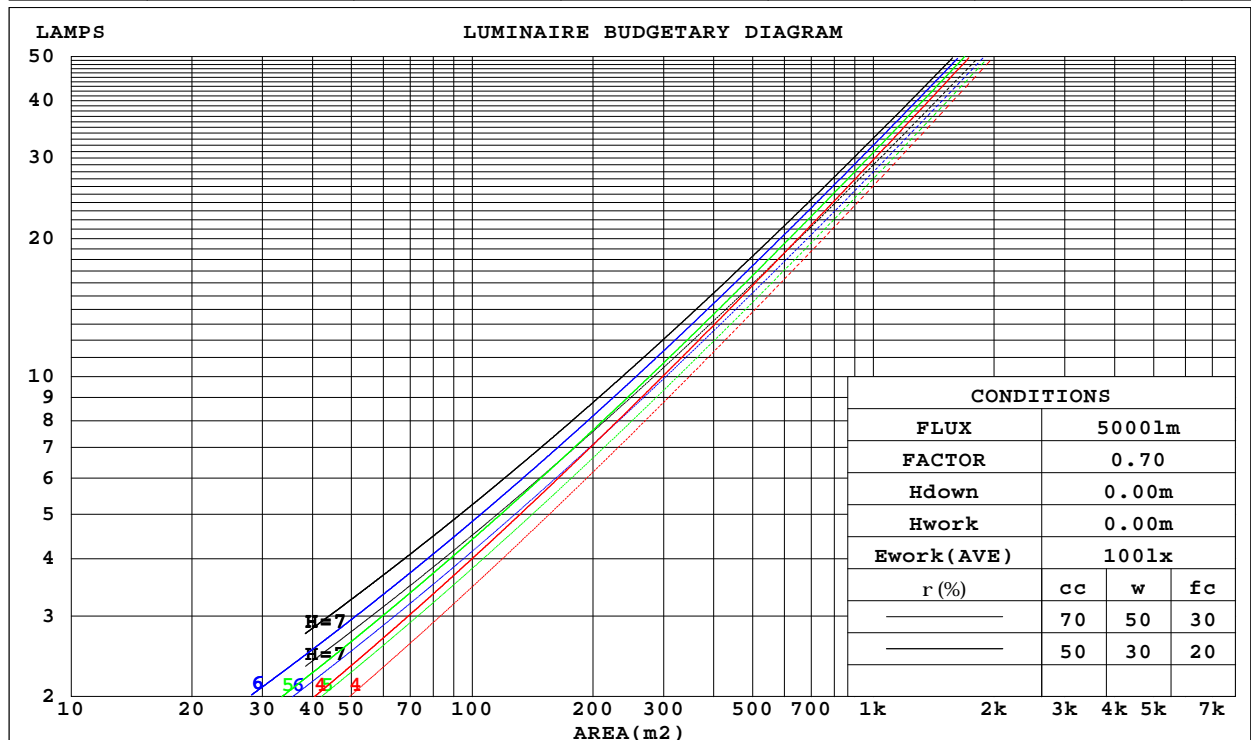
C Range: 0 - 360DEG
C Interval: 2.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:will
Test Date:05 June 2023

g Range: 0 - 90DEG
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:230.85V I:0.0329A P:7.2419W PF:0.9532 Freq:49.99Hz Lamp Flux:682.186x1 lm		
NAME: 5RS105-8	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

rcc	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	1.00
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	.83	.79	.88	.82	.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:230.85V I:0.0329A P:7.2419W PF:0.9532 Freq:49.99Hz Lamp Flux:682.186x1 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			Wall Exitance Coefficients(WEC)												
0.0																
1.0	.222	.126	.040	.215	.123	.039	.203	.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	.103	.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	.143	.074	.022	
8.0	.153	.075	.021	.151	.074	.021	.145	.073	.021	.141	.071	.021	.136	.070	.020	
9.0	.146	.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	.064	.018	.124	.062	.018	

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
R _{CR}	R _{CR} :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	.105	.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:230.85V I:0.0329A P:7.2419W PF:0.9532 Freq:49.99Hz Lamp Flux:682.186x1 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	26.9	28.0	27.1	28.2	28.4	26.8	28.0	27.1	28.2	28.4
3H	27.2	28.3	27.5	28.5	28.8	27.2	28.3	27.5	28.5	28.7
4H	27.3	28.4	27.6	28.6	28.8	27.3	28.4	27.6	28.6	28.8
6H	27.4	28.3	27.7	28.6	28.8	27.3	28.3	27.6	28.6	28.8
8H	27.3	28.3	27.7	28.5	28.8	27.3	28.2	27.6	28.5	28.8
12H	27.3	28.2	27.6	28.5	28.8	27.3	28.2	27.6	28.4	28.7
4H 2H	27.0	28.0	27.3	28.3	28.5	27.0	28.0	27.3	28.2	28.5
3H	27.5	28.4	27.9	28.7	29.0	27.5	28.4	27.8	28.7	29.0
4H	27.7	28.5	28.0	28.8	29.1	27.7	28.5	28.0	28.8	29.1
6H	27.7	28.5	28.1	28.8	29.2	27.7	28.4	28.1	28.8	29.1
8H	27.7	28.4	28.1	28.8	29.1	27.7	28.4	28.1	28.7	29.1
12H	27.7	28.3	28.1	28.7	29.1	27.7	28.3	28.1	28.7	29.1
8H 4H	27.7	28.3	28.1	28.7	29.1	27.7	28.3	28.1	28.7	29.1
6H	27.8	28.3	28.2	28.7	29.1	27.8	28.3	28.2	28.7	29.1
8H	27.8	28.3	28.3	28.7	29.1	27.8	28.3	28.2	28.7	29.1
12H	27.8	28.2	28.3	28.6	29.1	27.8	28.2	28.2	28.6	29.1
12H 4H	27.6	28.2	28.1	28.6	29.0	27.6	28.2	28.0	28.6	29.0
6H	27.8	28.2	28.2	28.7	29.1	27.7	28.2	28.2	28.6	29.1
8H	27.8	28.2	28.3	28.6	29.1	27.8	28.2	28.2	28.6	29.1
Variations with the observer position at spacings:										
S = 1.0H	+ 0.8 / - 1.1					+ 0.8 / - 1.1				
1.5H	+ 0.7 / - 0.6					+ 0.7 / - 0.6				
2.0H	+ 1.7 / - 1.5					+ 1.6 / - 1.4				

CIE Pub.117, 682.2 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -1.3)
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:230.85V I:0.0329A P:7.2419W PF:0.9532 Freq:49.99Hz Lamp Flux:682.186x1 lm		
NAME: 5RS105—8	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

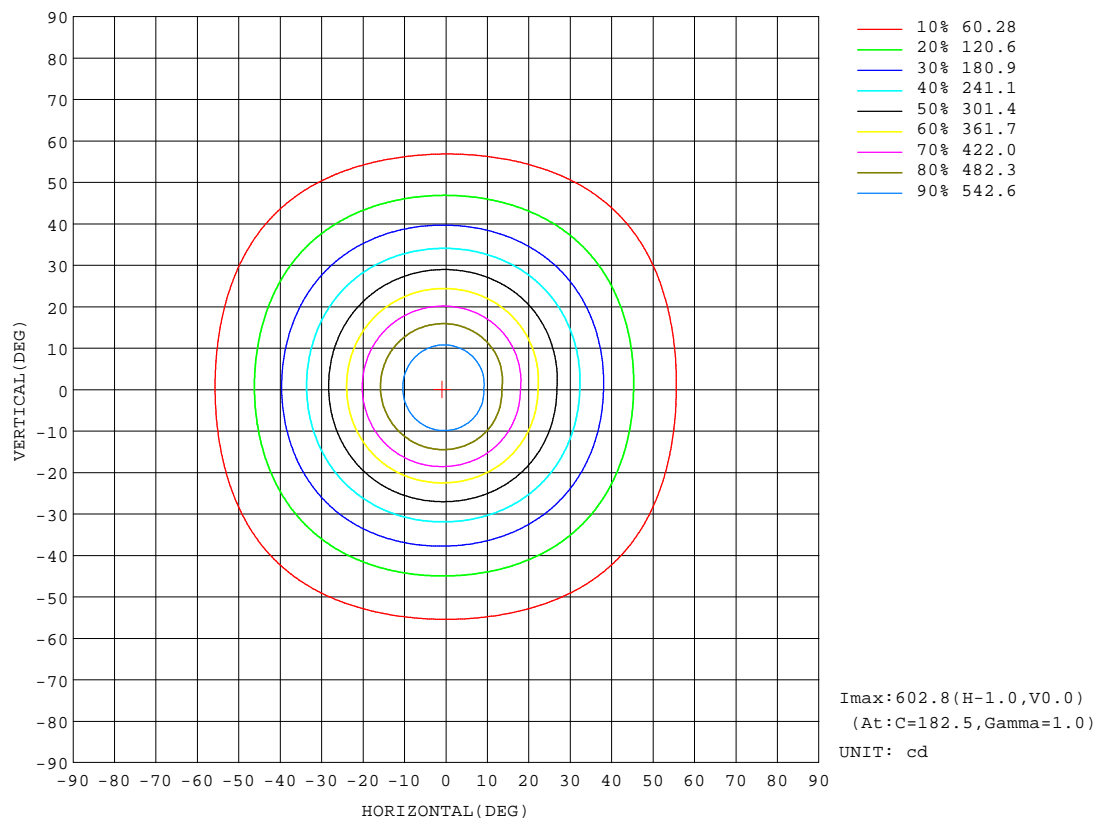
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	73	64	59	72	64	59	71	63	58	54
0.80	82	74	68	81	73	68	80	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	98	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:230.85V I:0.0329A P:7.2419W PF:0.9532 Freq:49.99Hz Lamp Flux:682.186x1 lm		
NAME: 5RS105-8	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



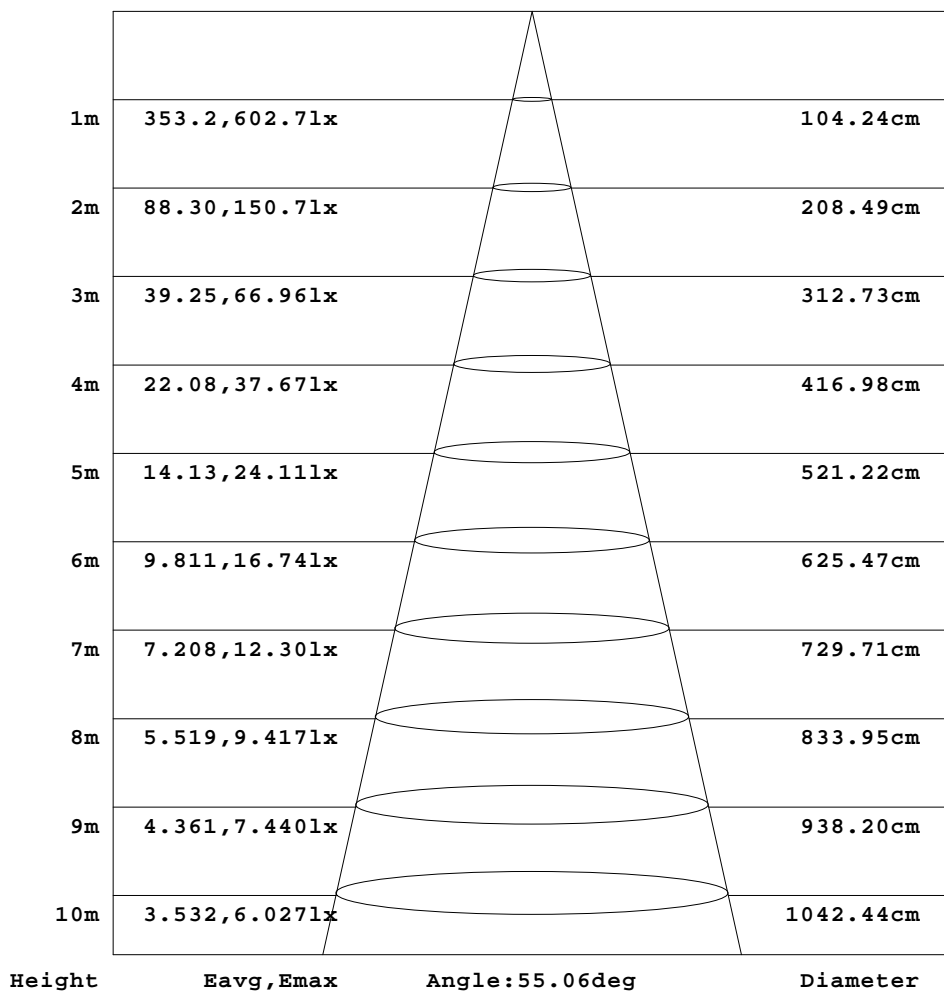
C Range: 0 - 360DEG
C Interval: 2.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: will
Test Date: 05 June 2023

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:230.85V I:0.0329A P:7.2419W PF:0.9532 Freq:49.99Hz Lamp Flux:682.186x1 lm		
NAME: 5RS105-8	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

Flux out:313.7 lm



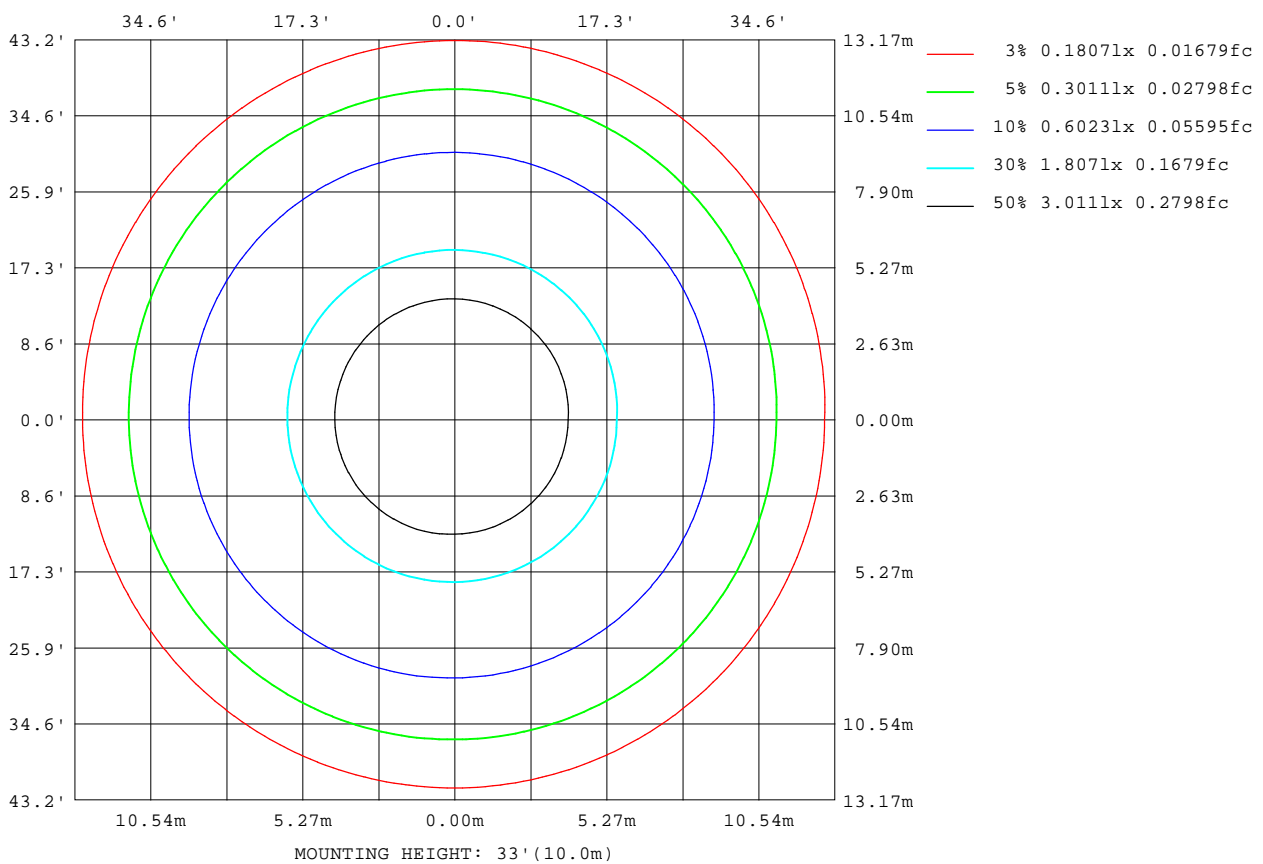
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:230.85V I:0.0329A P:7.2419W PF:0.9532 Freq:49.99Hz Lamp Flux:682.186x1 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
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:

LED Avg.L Report

Test:U:230.85V I:0.0329A P:7.2419W PF:0.9532 Freq:49.99Hz Lamp Flux:682.186x1 lm		
NAME: 5RS105—8	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

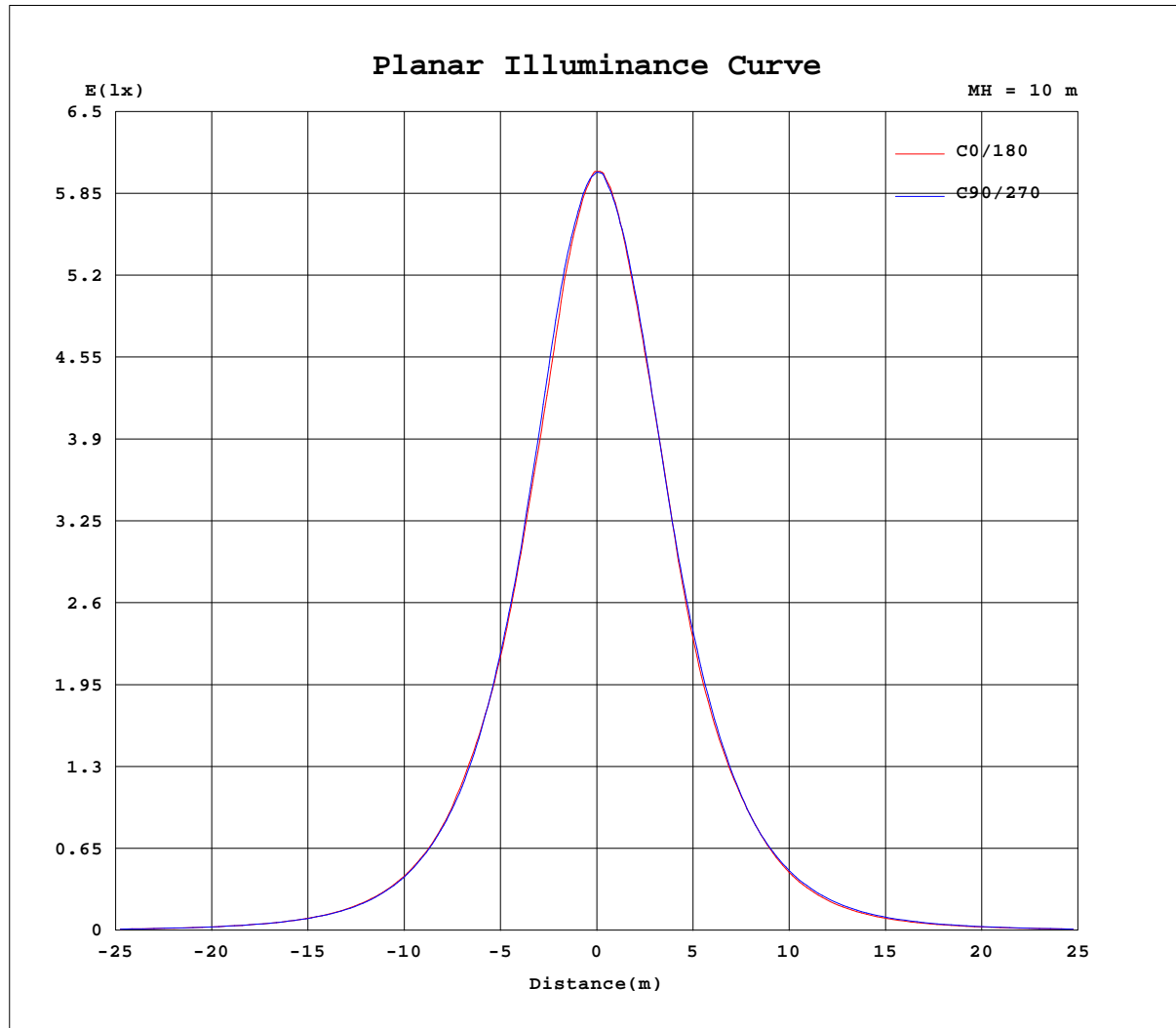
AvgL	cd/m2
L_0~180(65)av	53704
L_0~180(75)av	32768
L_0~180(85)av	13317
L_90~270(65)av	56439
L_90~270(75)av	33686
L_90~270(85)av	13520
L_45(65)av	55387
L_45(75)av	33388
L_45(85)av	13510

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:

