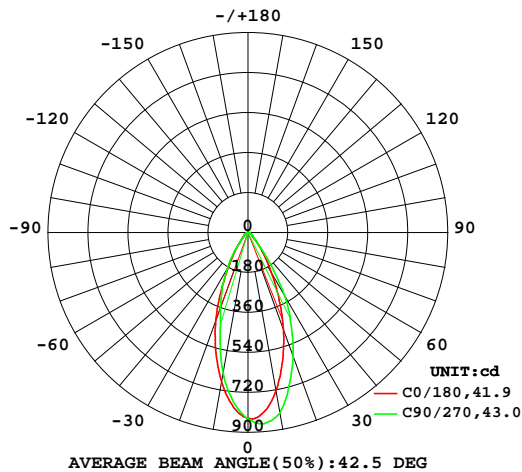


LUMINAIRE PHOTOMETRIC TEST REPORT

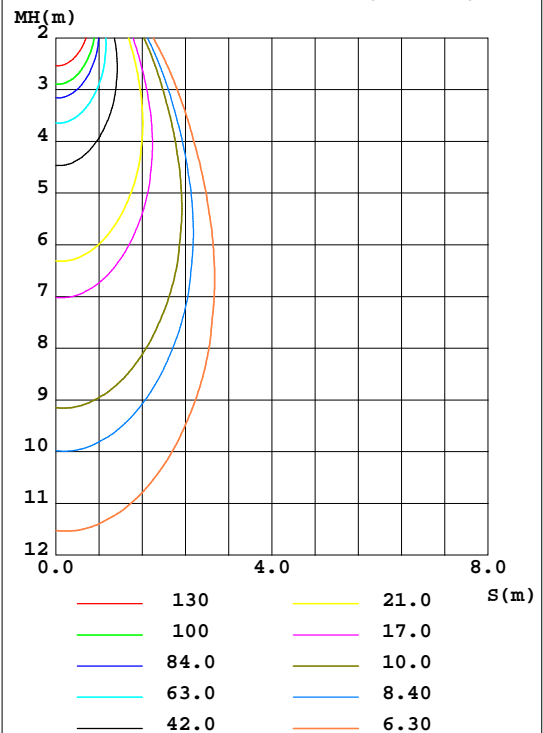
Test:U:228.67V I:0.0300A P:6.5239W PF:0.9500 Freq:49.99Hz Lamp Flux:550.888x1 lm		
NAME: 5RS102-8	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 84.44 lm/W			
MODEL	4000K	I _{max} (cd)	864.2	S/MH(C0/180)	0.65
NOMINAL POWER(W)	7	LOR(%)	100.0	S/MH(C90/270)	0.56
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	550.89	h UP,DN(C0-180)	0.0,57.0
NOMINAL FLUX(lm)	550.888	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.0,43.0
LAMPS INSIDE	1	h up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	230V	h down(%)	100.0	CIBSE SHR MAX	0.75

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:02 August 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:

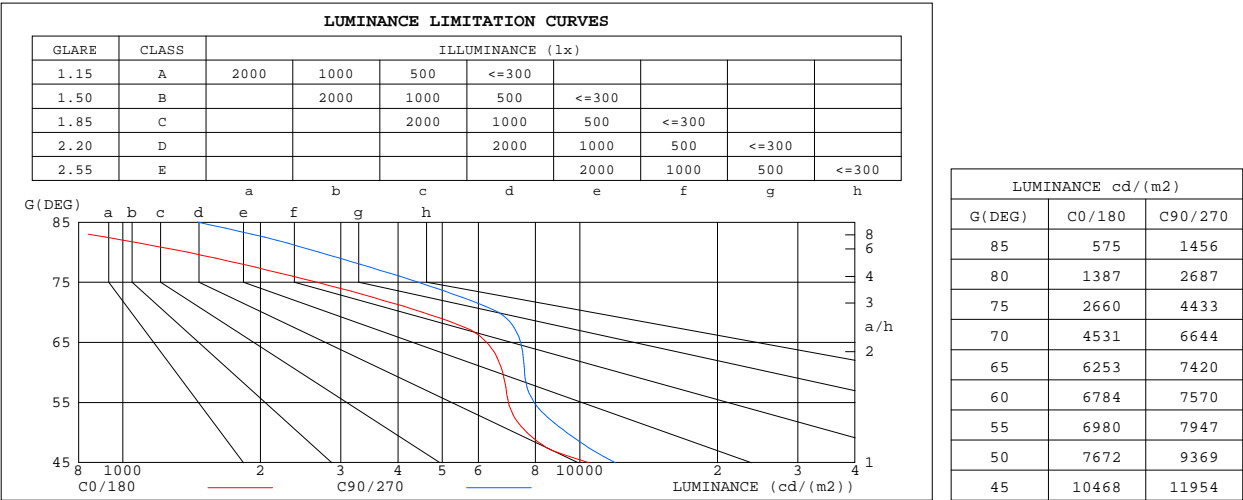
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
5	812.2	853.7	863.0	828.6	785.2	766.5	763.7	779.2	0- 5	19.66	19.66	3.57,3.57
10	724.4	804.9	825.0	763.4	684.3	651.2	645.6	670.3	5- 10	54.60	74.27	13.5,13.5
15	601.2	692.9	716.8	650.8	560.8	505.9	485.0	519.1	10- 15	77.66	151.9	27.6,27.6
20	467.8	569.1	595.8	522.5	425.4	377.1	363.2	394.7	15- 20	86.34	238.3	43.3,43.3
25	333.8	434.6	460.0	380.9	284.6	264.0	272.9	294.3	20- 25	84.10	322.4	58.5,58.5
30	216.4	311.0	335.2	260.5	172.3	165.4	182.9	196.8	25- 30	71.97	394.3	71.6,71.6
35	133.6	177.0	186.3	146.6	102.2	103.8	117.9	125.7	30- 35	53.23	447.6	81.2,81.2
40	78.71	86.45	85.48	72.15	57.46	52.03	53.29	62.30	35- 40	33.24	480.8	87.3,87.3
45	41.98	47.34	47.94	42.15	34.90	30.46	29.24	33.31	40- 45	18.62	499.4	90.7,90.7
50	27.97	32.87	34.16	30.55	25.86	23.80	23.35	24.77	45- 50	13.08	512.5	93,93
55	22.71	25.22	25.85	23.97	21.48	20.16	19.77	20.66	50- 55	10.85	523.4	95,95
60	19.24	21.09	21.47	19.91	17.80	16.20	15.52	16.63	55- 60	9.456	532.8	96.7,96.7
65	14.99	17.34	17.79	15.79	12.99	10.51	9.339	11.00	60- 65	7.877	540.7	98.1,98.1
70	8.790	12.13	12.89	10.17	6.629	4.698	4.133	5.567	65- 70	5.510	546.2	99.1,99.1
75	3.905	6.003	6.507	4.861	2.728	1.690	1.434	2.199	70- 75	2.984	549.2	99.7,99.7
80	1.366	2.400	2.647	1.823	0.7765	0.3455	0.2836	0.6277	75- 80	1.248	550.4	99.9,99.9
85	0.2842	0.6358	0.7196	0.4311	0.0835	0.0095	0.0450	0.1299	80- 85	0.3856	550.8	100,100
90	0.0386	0.0675	0.0771	0.0603	0.0386	0.0362	0.0386	0.0386	85- 90	0.0744	550.9	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:02 August 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:228.67V I:0.0300A P:6.5239W PF:0.9500 Freq:49.99Hz Lamp Flux:550.888x1 lm		
NAME: 5RS102-8	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



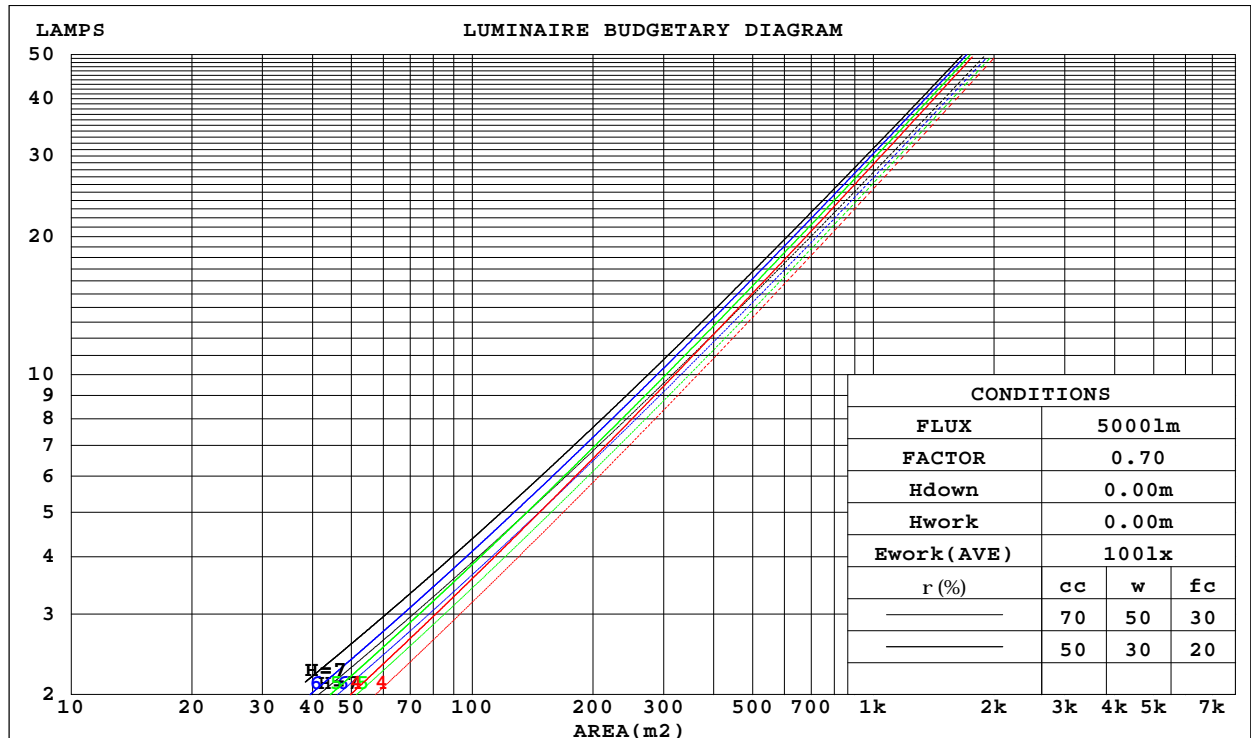
C Range: 0 - 360DEG
C Interval: 2.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:will
Test Date:02 August 2023

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:228.67V I:0.0300A P:6.5239W PF:0.9500 Freq:49.99Hz Lamp Flux:550.888x1 lm		
NAME: 5RS102-8	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	1.00
1.0	1.10	1.08	1.05	1.08	1.06	1.04	1.04	1.02	1.01	1.00	.99	.98	.97	.96	.95	.93
2.0	1.02	.98	.95	1.01	.97	.94	.97	.94	.92	.94	.92	.90	.92	.90	.88	.86
3.0	.95	.90	.86	.94	.89	.85	.91	.87	.84	.89	.85	.83	.86	.84	.81	.80
4.0	.89	.83	.79	.88	.83	.79	.86	.81	.78	.84	.80	.77	.82	.78	.76	.74
5.0	.83	.77	.73	.82	.77	.73	.81	.76	.72	.79	.75	.71	.77	.74	.71	.69
6.0	.78	.72	.68	.78	.72	.68	.76	.71	.67	.75	.70	.67	.73	.69	.66	.65
7.0	.74	.68	.64	.73	.68	.64	.72	.67	.63	.71	.66	.63	.70	.66	.63	.61
8.0	.70	.64	.60	.69	.64	.60	.68	.63	.60	.67	.63	.59	.66	.62	.59	.58
9.0	.66	.60	.57	.66	.60	.56	.65	.60	.56	.64	.59	.56	.63	.59	.56	.55
10.0	.63	.57	.53	.63	.57	.53	.62	.57	.53	.61	.56	.53	.60	.56	.53	.52



C Range: 0 - 360DEG
 C Interval: 2.5DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: will
 Test Date: 02 August 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:228.67V I:0.0300A P:6.5239W PF:0.9500 Freq:49.99Hz Lamp Flux:550.888x1 lm		
NAME: 5RS102-8	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	.186	.106	.033	.179	.102	.032	.166	.095	.030	.155	.089	.029	.144	.083	.027	
2.0	.178	.097	.030	.172	.095	.029	.161	.090	.028	.151	.085	.027	.142	.081	.025	
3.0	.168	.090	.027	.163	.088	.026	.154	.084	.025	.146	.080	.025	.138	.076	.024	
4.0	.159	.083	.024	.155	.081	.024	.147	.078	.023	.140	.075	.023	.133	.072	.022	
5.0	.151	.077	.022	.147	.075	.022	.140	.073	.021	.134	.071	.021	.128	.068	.021	
6.0	.143	.072	.021	.140	.071	.020	.134	.069	.020	.128	.067	.020	.123	.065	.019	
7.0	.136	.067	.019	.133	.066	.019	.128	.065	.019	.123	.063	.018	.118	.061	.018	
8.0	.129	.063	.018	.127	.062	.018	.122	.061	.017	.118	.060	.017	.113	.058	.017	
9.0	.123	.060	.017	.121	.059	.017	.117	.058	.016	.113	.057	.016	.109	.055	.016	
10.0	.118	.057	.016	.116	.056	.016	.112	.055	.015	.109	.054	.015	.105	.053	.015	

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	.172	.157	.144	.147	.135	.124	.101	.093	.086	.058	.054	.050	.019	.017	.016	
2.0	.157	.132	.112	.134	.114	.097	.092	.079	.067	.053	.046	.040	.017	.015	.013	
3.0	.145	.114	.089	.124	.098	.077	.085	.068	.054	.049	.040	.032	.016	.013	.010	
4.0	.135	.099	.072	.116	.086	.062	.079	.060	.044	.046	.035	.026	.015	.011	.009	
5.0	.126	.087	.059	.108	.076	.051	.074	.053	.036	.043	.031	.022	.014	.010	.007	
6.0	.118	.078	.049	.102	.068	.043	.070	.047	.030	.041	.028	.018	.013	.009	.006	
7.0	.112	.071	.042	.096	.061	.036	.066	.043	.026	.039	.025	.015	.012	.008	.005	
8.0	.106	.064	.036	.091	.056	.031	.063	.039	.022	.037	.023	.013	.012	.008	.004	
9.0	.100	.059	.031	.087	.051	.027	.060	.036	.019	.035	.021	.012	.011	.007	.004	
10.0	.096	.055	.027	.082	.047	.024	.057	.033	.017	.033	.020	.010	.011	.006	.003	

C Range: 0 - 360DEG
C Interval: 2.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:will
Test Date:02 August 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:228.67V I:0.0300A P:6.5239W PF:0.9500 Freq:49.99Hz Lamp Flux:550.888x1 lm											
NAME: 5RS102-8					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	17.4	18.4	17.6	18.6	18.7	18.3	19.3	18.5	19.5	19.6	
	3H	18.0	18.9	18.2	19.1	19.3	19.0	19.9	19.2	20.1	20.3
	4H	18.0	18.9	18.3	19.1	19.3	19.1	20.0	19.4	20.2	20.4
	6H	18.0	18.8	18.3	19.0	19.3	19.1	19.9	19.4	20.2	20.4
	8H	18.0	18.7	18.3	19.0	19.3	19.1	19.9	19.4	20.1	20.4
	12H	17.9	18.7	18.2	18.9	19.2	19.1	19.8	19.4	20.1	20.4
4H	2H	17.7	18.5	18.0	18.8	19.0	18.5	19.3	18.8	19.5	19.8
	3H	18.4	19.1	18.7	19.4	19.7	19.3	20.0	19.6	20.3	20.6
	4H	18.5	19.2	18.9	19.5	19.8	19.5	20.2	19.9	20.5	20.8
	6H	18.5	19.1	18.9	19.4	19.8	19.6	20.1	19.9	20.5	20.8
	8H	18.5	19.0	18.9	19.4	19.7	19.5	20.1	19.9	20.4	20.8
	12H	18.4	18.9	18.8	19.3	19.7	19.5	20.0	19.9	20.4	20.8
8H	4H	18.6	19.1	19.0	19.5	19.8	19.5	20.0	19.9	20.4	20.8
	6H	18.6	19.0	19.0	19.4	19.8	19.6	20.0	20.0	20.4	20.8
	8H	18.6	19.0	19.0	19.4	19.8	19.6	20.0	20.0	20.4	20.8
	12H	18.5	18.9	19.0	19.3	19.8	19.5	19.9	20.0	20.3	20.8
12H	4H	18.5	19.0	18.9	19.4	19.8	19.5	19.9	19.9	20.3	20.7
	6H	18.6	18.9	19.0	19.4	19.8	19.5	19.9	20.0	20.4	20.8
	8H	18.5	18.9	19.0	19.3	19.8	19.5	19.9	20.0	20.3	20.8
Variations with the observer position at spacings:											
S = 1.0H	+ 1.1 / - 1.4					+ 1.3 / - 1.3					
1.5H	+ 2.1 / - 1.5					+ 2.6 / - 1.1					
2.0H	+ 0.8 / - 0.6					+ 1.0 / - 0.6					

CIE Pub.117, 550.9 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -2.1)
Area: 0.00567162 m2

C Range: 0 - 360DEG
C Interval: 2.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:will
Test Date:02 August 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:228.67V I:0.0300A P:6.5239W PF:0.9500 Freq:49.99Hz Lamp Flux:550.888x1 lm		
NAME: 5RS102-8	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

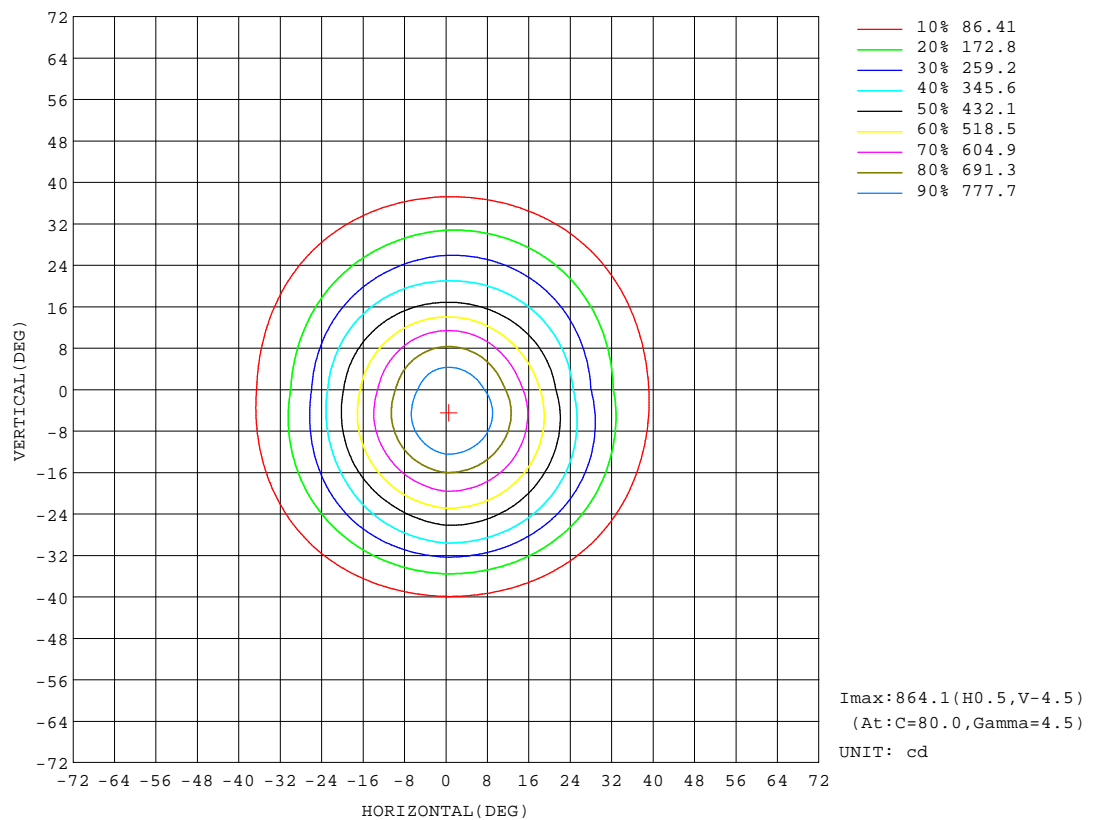
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	84	77	72	83	76	72	82	76	72	68
0.80	91	85	81	91	84	81	89	84	80	76
1.00	96	90	86	95	90	86	94	90	85	81
1.25	101	95	91	100	94	91	98	93	90	85
1.50	104	98	95	103	98	94	100	96	93	88
2.00	107	102	99	106	101	98	103	99	96	91
2.50	109	105	101	107	103	100	104	101	99	92
3.00	111	107	104	109	106	103	105	103	101	94
4.00	113	110	107	111	108	106	107	105	103	96
5.00	114	112	110	112	110	108	108	107	105	97
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:02 August 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:228.67V I:0.0300A P:6.5239W PF:0.9500 Freq:49.99Hz Lamp Flux:550.888x1 lm		
NAME: 5RS102-8	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



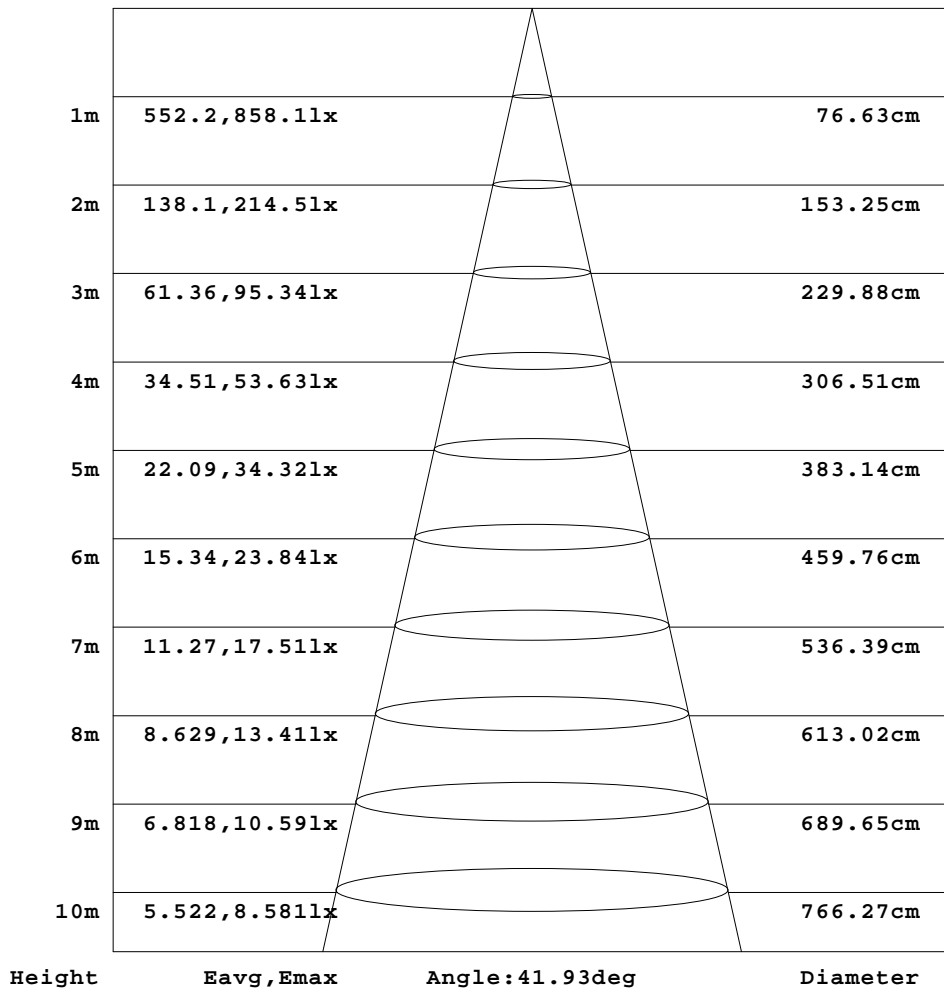
C Range: 0 - 360DEG
C Interval: 2.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: will
Test Date: 02 August 2023

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:228.67V I:0.0300A P:6.5239W PF:0.9500 Freq:49.99Hz Lamp Flux:550.888x1 lm		
NAME: 5RS102-8	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

Flux out:255.6 lm



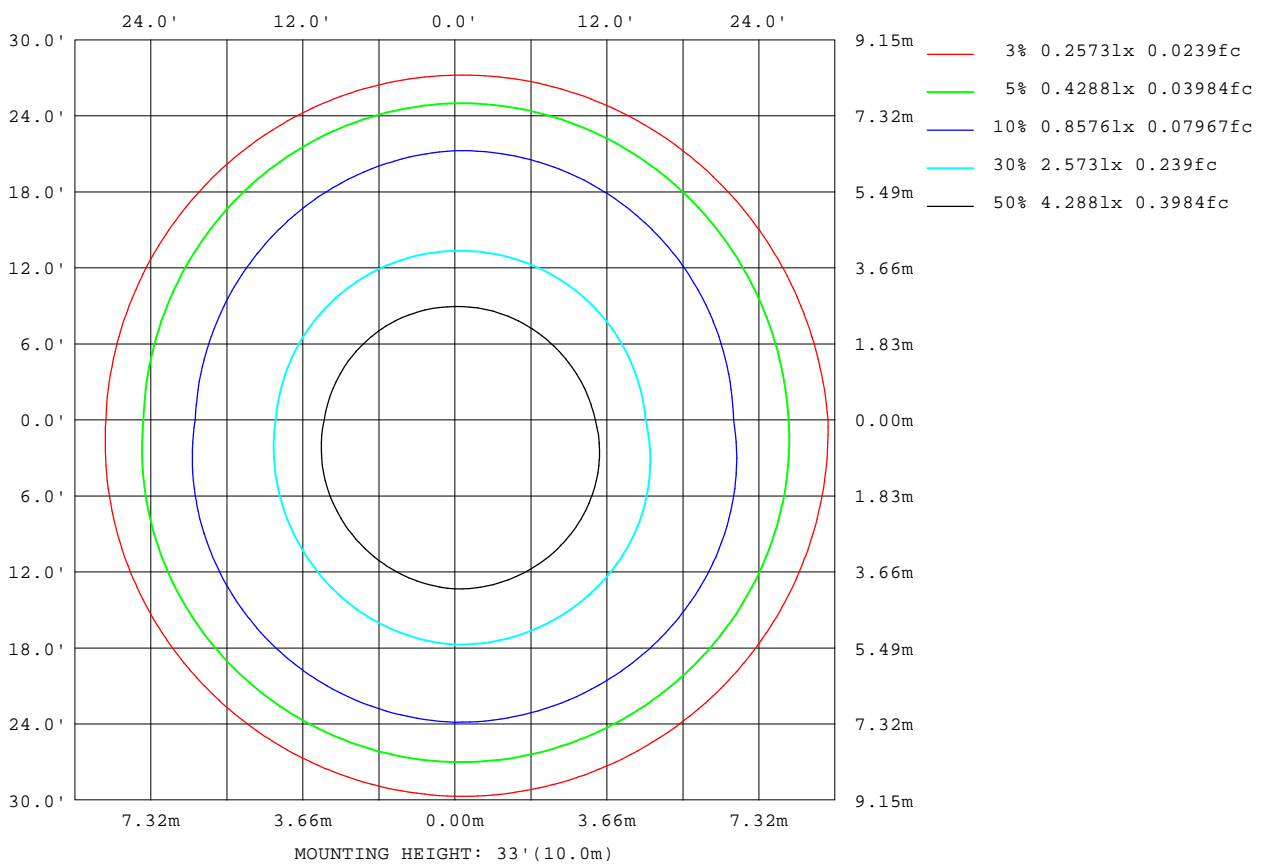
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 2.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:will
Test Date:02 August 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:228.67V I:0.0300A P:6.5239W PF:0.9500 Freq:49.99Hz Lamp Flux:550.888x1 lm		
NAME: 5RS102-8	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: 02 August 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:228.67V I:0.0300A P:6.5239W PF:0.9500 Freq:49.99Hz Lamp Flux:550.888x1 lm		
NAME: 5RS102-8	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

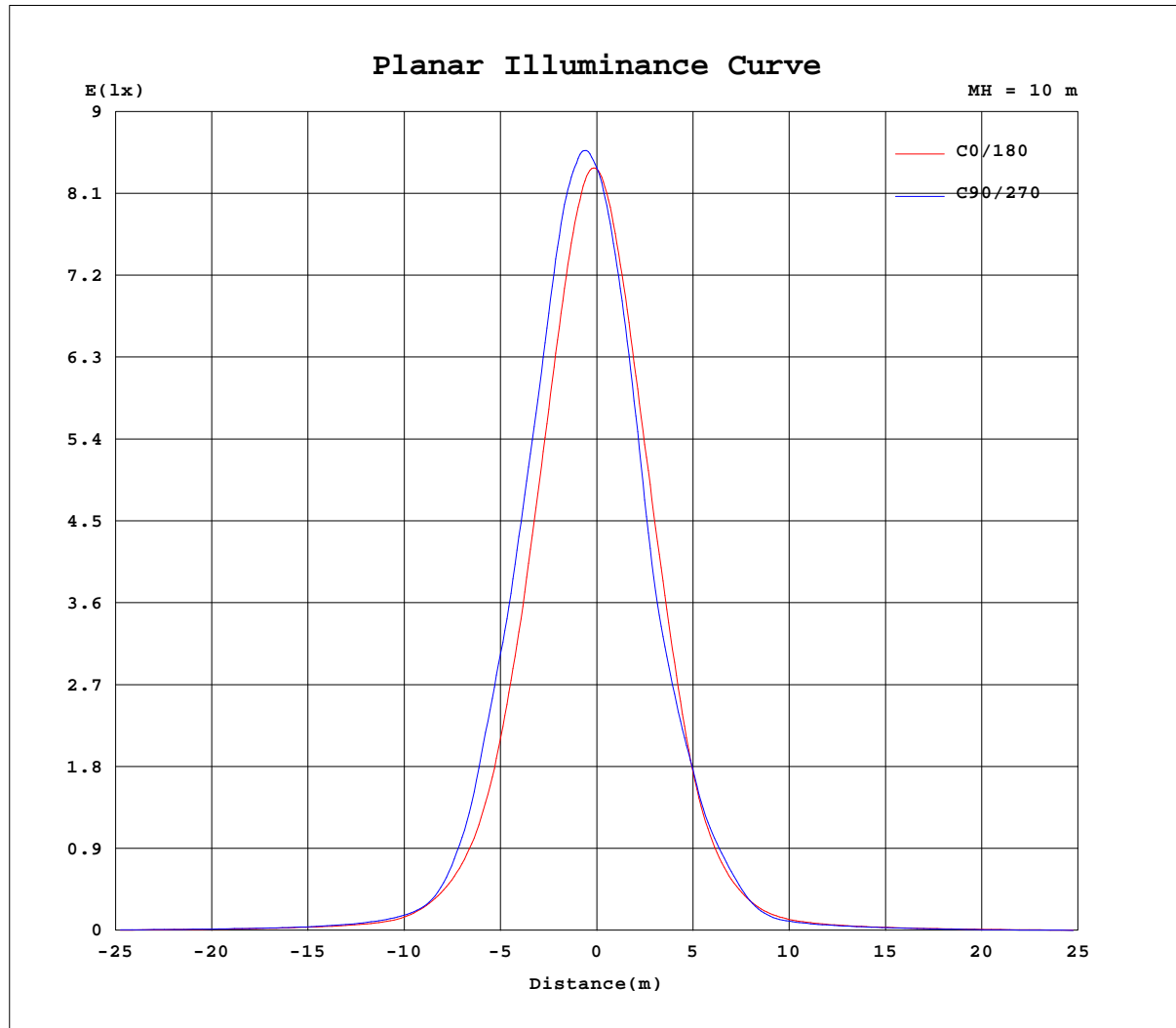
AvgL	cd/m2
L_0~180(65)av	5836
L_0~180(75)av	2259
L_0~180(85)av	372
L_90~270(65)av	5658
L_90~270(75)av	2705
L_90~270(85)av	773
L_45(65)av	5699
L_45(75)av	2513
L_45(85)av	610

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 2.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:will
Test Date:02 August 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: 02 August 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:

