

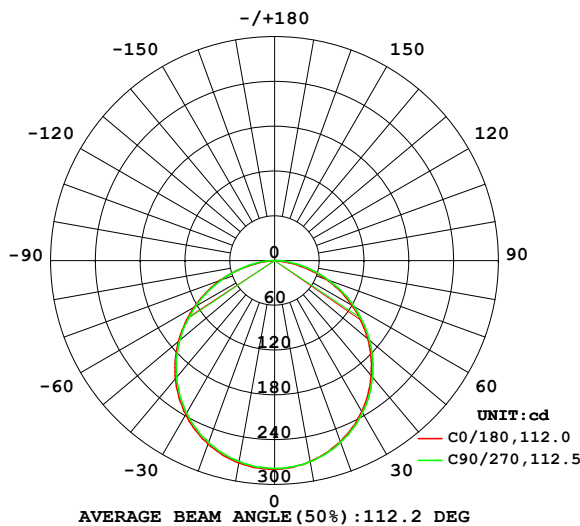


LUMINAIRE PHOTOMETRIC TEST REPORT

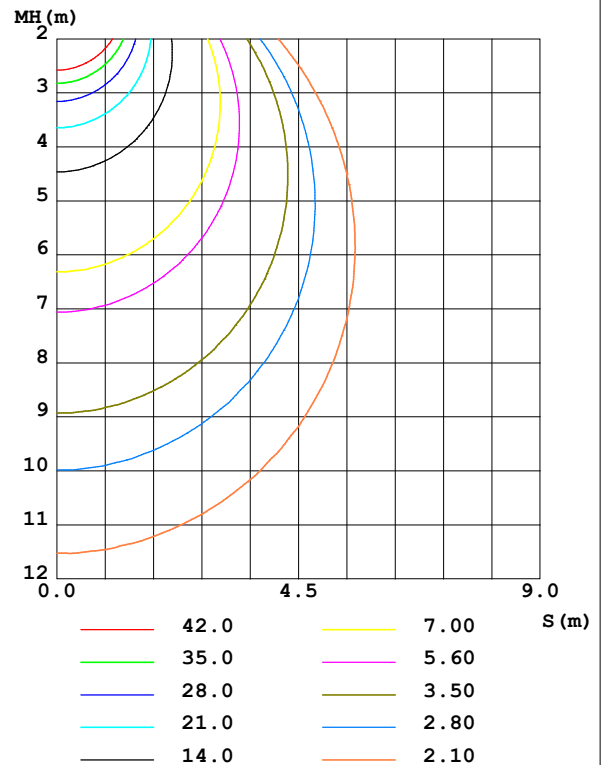
Test:U:119.86V I:0.0990A P:11.579W PF:0.9762 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:790.758x1 lm		
NAME: 8744WH-90-5CCT 2700K	TYPE:	WEIGHT:
SPEC.: 2700K 90	DIM.:	SERIAL No.:
MFR.: RP LIGHTING	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 68.29 lm/W
MODEL	8744WH-90-5CCT 2700K	I _{max} (cd)	279.7	S/MH (C0/180)	1.27	
NOMINAL POWER (W)	12	LOR (%)	100.0	S/MH (C90/270)	1.26	
RATED VOLTAGE (V)	120.0	TOTAL FLUX (lm)	790.76	η UP, DN (C0-180)	0.0, 50.1	
NOMINAL FLUX (lm)	790.758	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 49.9	
LAMPS INSIDE	1	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: 22.5DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators:
Test Date: 2023-06-29

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
Humidity: 65.0%
Test Distance: 3.080m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

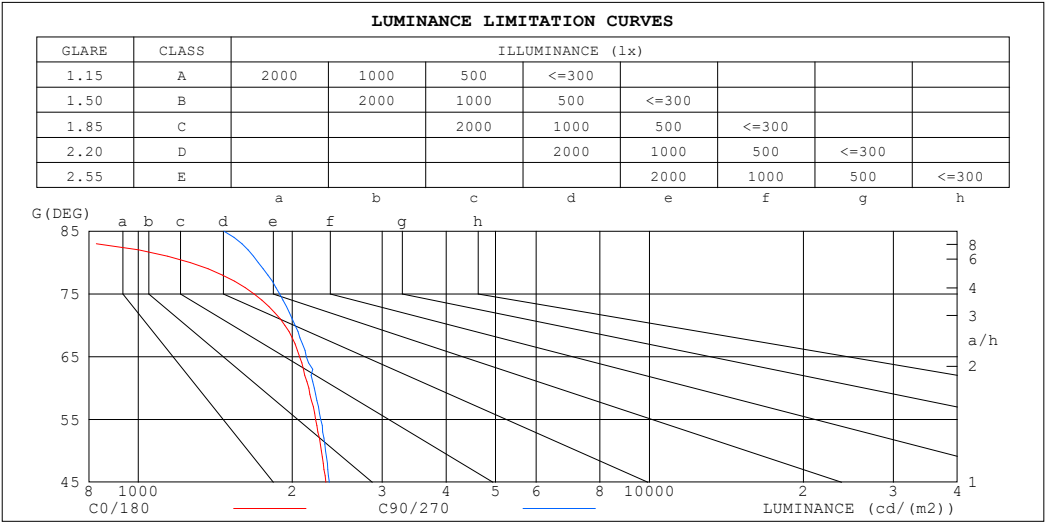
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	273.3	273.4	273.5	273.5	275.3	274.4	273.1	272.5	0- 10	26.36	26.36	3.33,3.33
20	258.3	258.3	259.0	260.0	261.5	260.3	259.4	257.7	10- 20	75.51	101.9	12.9,12.9
30	233.6	234.3	235.4	236.4	238.0	237.1	236.0	234.1	20- 30	114.5	216.4	27.4,27.4
40	201.7	202.8	204.5	204.8	206.9	205.6	204.2	202.2	30- 40	138.1	354.4	44.8,44.8
50	162.9	164.5	165.9	166.6	168.0	167.1	165.9	164.0	40- 50	143.1	497.5	62.9,62.9
60	119.7	121.1	122.8	123.2	124.2	123.2	122.0	120.4	50- 60	128.9	626.4	79.2,79.2
70	73.56	75.61	76.99	77.38	77.57	76.61	75.63	74.44	60- 70	98.10	724.5	91.6,91.6
80	24.39	28.92	33.13	30.20	27.67	29.61	31.71	26.83	70- 80	55.15	779.7	98.6,98.6
90	0.2714	0.2863	0.3032	0.2795	0.1483	0.1649	0.1948	0.1682	80- 90	11.11	790.8	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:
 Test Date:2023-06-29

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
 Humidity:65.0%
 Test Distance:3.080m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:119.86V I:0.0990A P:11.579W PF:0.9762 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0Lamp Flux:790.758x1 lm		
NAME: 8744WH-90-5CCT 2700K	TYPE:	WEIGHT:
SPEC.: 2700K 90	DIM.:	SERIAL No.:
MFR.: RP LIGHTING	SUR.:	Shielding Angle:



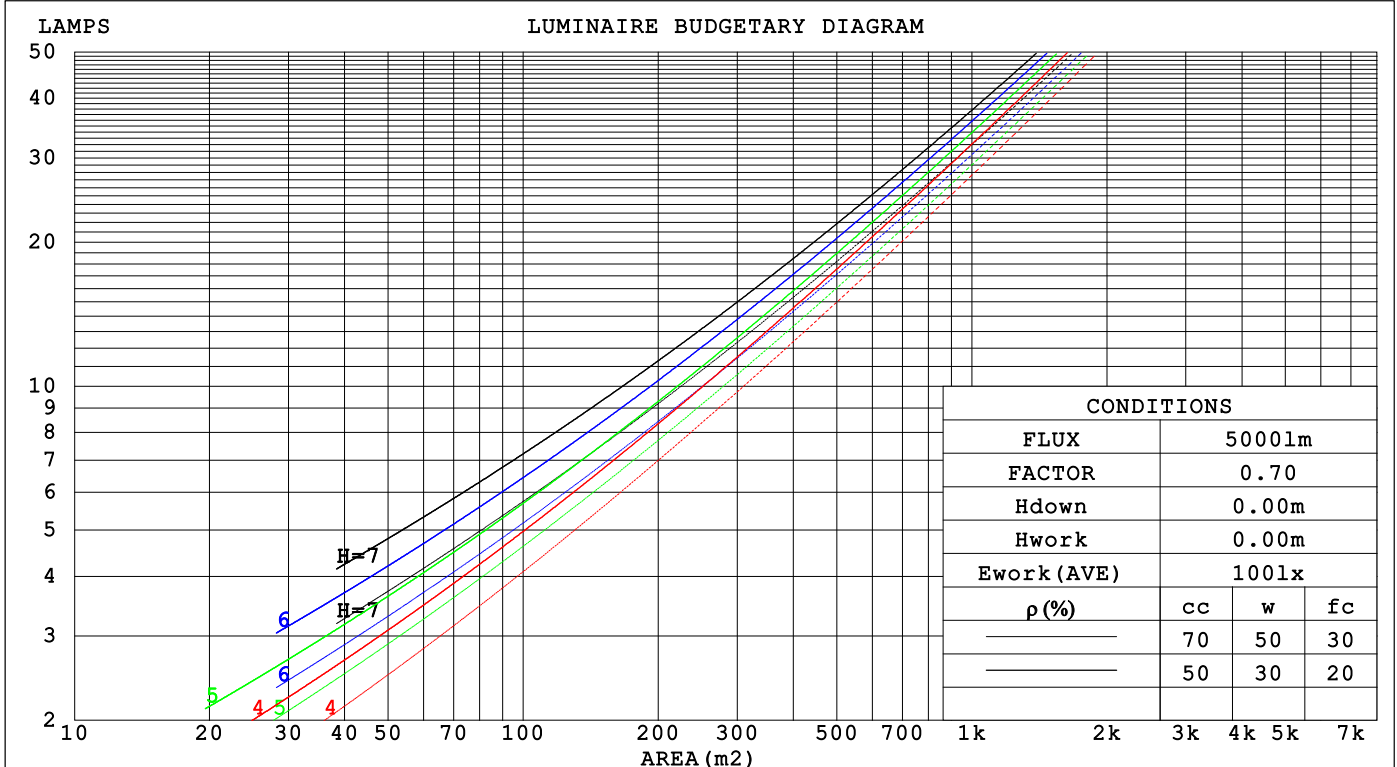
LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	318	1471
80	1264	1717
75	1684	1890
70	1936	2026
65	2067	2131
60	2155	2211
55	2223	2275
50	2281	2323
45	2328	2365

C Range: 0 - 360DEG	γ Range: 0 - 90DEG
C Interval: 22.5DEG	γ Interval: 1.0DEG
Test Speed: HIGH	Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
Temperature:25.3℃	Humidity:65.0%
Operators:	Test Distance:3.080m [K=1.0000]
Test Date:2023-06-29	Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:119.86V I:0.0990A P:11.579W PF:0.9762 Freq:59.98Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0		
Lamp Flux:790.758x1 lm		
NAME: 8744WH-90-5CCT2700K	TYPE:	WEIGHT:
SPEC.: 2700K 90	DIM.:	SERIAL No.:
MFR.: RP LIGHTING	SUR.:	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators:
 Test Date: 2023-06-29

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
 Humidity: 65.0%
 Test Distance: 3.080m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:119.86V I:0.0990A P:11.579W PF:0.9762 Freq:59.98Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0		Lamp Flux:790.758x1 lm
NAME:8744WH-90-5CCT 2700K	TYPE:	WEIGHT:
SPEC.: 2700K 90	DIM.:	SERIAL No.:
MFR.: RP LIGHTING	SUR.:	Shielding 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	.305	.173	.055	.298	.170	.054	.285	.163	.052	.272	.157	.050	.261	.151	.049															
2.0	.289	.159	.049	.283	.156	.048	.271	.151	.047	.261	.146	.046	.251	.142	.045															
3.0	.269	.143	.043	.263	.141	.042	.253	.137	.042	.243	.133	.041	.234	.130	.040															
4.0	.248	.129	.038	.243	.127	.038	.234	.124	.037	.226	.121	.037	.218	.118	.036															
5.0	.230	.117	.034	.225	.116	.034	.217	.113	.033	.210	.111	.033	.203	.108	.033															
6.0	.213	.107	.031	.209	.106	.030	.202	.104	.030	.195	.102	.030	.189	.100	.030															
7.0	.199	.098	.028	.195	.097	.028	.189	.095	.027	.183	.094	.027	.177	.092	.027															
8.0	.185	.091	.025	.182	.090	.025	.177	.088	.025	.171	.087	.025	.166	.085	.025															
9.0	.174	.084	.023	.171	.083	.023	.166	.082	.023	.161	.081	.023	.156	.079	.023															
10.0	.163	.078	.022	.161	.078	.022	.156	.077	.022	.152	.075	.021	.148	.074	.021															

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	.180	.156	.135	.154	.134	.116	.105	.092	.080	.061	.053	.047	.019	.017	.015	
2.0	.172	.132	.098	.147	.114	.085	.101	.079	.059	.058	.046	.035	.019	.015	.011	
3.0	.164	.114	.074	.141	.099	.065	.097	.068	.045	.056	.040	.027	.018	.013	.009	
4.0	.157	.101	.058	.134	.087	.051	.092	.061	.036	.053	.036	.021	.017	.012	.007	
5.0	.149	.091	.047	.128	.078	.041	.088	.055	.029	.051	.032	.017	.016	.010	.006	
6.0	.142	.082	.039	.122	.071	.034	.084	.050	.024	.049	.029	.014	.016	.010	.005	
7.0	.135	.075	.033	.116	.065	.029	.080	.046	.021	.047	.027	.012	.015	.009	.004	
8.0	.129	.069	.029	.111	.060	.025	.077	.042	.018	.045	.025	.011	.014	.008	.004	
9.0	.123	.065	.025	.106	.056	.022	.073	.039	.016	.043	.023	.009	.014	.008	.003	
10.0	.117	.060	.022	.101	.052	.020	.070	.037	.014	.041	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:
Test Date:2023-06-29

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
Humidity:65.0%
Test Distance:3.080m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:119.86V I:0.0990A P:11.579W PF:0.9762 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:790.758x1 lm										
NAME: 8744WH-90-5CCT 2700K						TYPE:		WEIGHT:		
SPEC.: 2700K 90						DIM.:		SERIAL No.:		
MFR.: RP LIGHTING						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	16.5	18.0	16.7	18.2	18.4	16.6	18.1	16.8	18.3	18.5
3H	18.0	19.4	18.3	19.6	19.8	18.1	19.5	18.4	19.8	20.0
4H	18.5	19.8	18.8	20.1	20.3	18.7	20.1	19.0	20.3	20.6
6H	18.8	20.1	19.1	20.3	20.6	19.2	20.4	19.5	20.7	21.0
8H	18.8	20.0	19.2	20.3	20.6	19.3	20.5	19.7	20.8	21.1
12H	18.8	20.0	19.2	20.3	20.6	19.4	20.6	19.8	20.9	21.2
4H 2H	17.1	18.4	17.4	18.7	18.9	17.2	18.5	17.5	18.8	19.0
3H	18.8	19.9	19.1	20.2	20.5	18.9	20.1	19.2	20.4	20.7
4H	19.4	20.5	19.8	20.8	21.1	19.6	20.7	20.0	21.0	21.4
6H	19.8	20.8	20.2	21.1	21.5	20.2	21.2	20.6	21.5	21.9
8H	19.9	20.8	20.3	21.1	21.5	20.4	21.3	20.8	21.7	22.0
12H	19.9	20.7	20.3	21.1	21.5	20.5	21.3	21.0	21.7	22.1
8H 4H	19.7	20.6	20.1	20.9	21.3	19.9	20.8	20.3	21.1	21.5
6H	20.2	20.9	20.6	21.3	21.8	20.6	21.3	21.0	21.7	22.2
8H	20.3	21.0	20.8	21.4	21.9	20.9	21.5	21.3	21.9	22.4
12H	20.3	20.9	20.8	21.3	21.8	21.1	21.6	21.5	22.1	22.5
12H 4H	19.7	20.5	20.1	20.9	21.3	19.9	20.7	20.3	21.1	21.5
6H	20.3	20.9	20.7	21.3	21.8	20.6	21.3	21.1	21.7	22.2
8H	20.4	21.0	20.9	21.4	21.9	20.9	21.5	21.4	21.9	22.4
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.2 / - 0.2					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117, 790.8 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.8)
 Area: 0.111111 m2

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:
 Test Date:2023-06-29

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
 Humidity:65.0%
 Test Distance:3.080m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:119.86V I:0.0990A P:11.579W PF:0.9762 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:790.758x1 lm		
NAME: 8744WH-90-5CCT2700K	TYPE:	WEIGHT:
SPEC.: 2700K 90	DIM.:	SERIAL No.:
MFR.: RP LIGHTING	SUR.:	Shielding Angle:

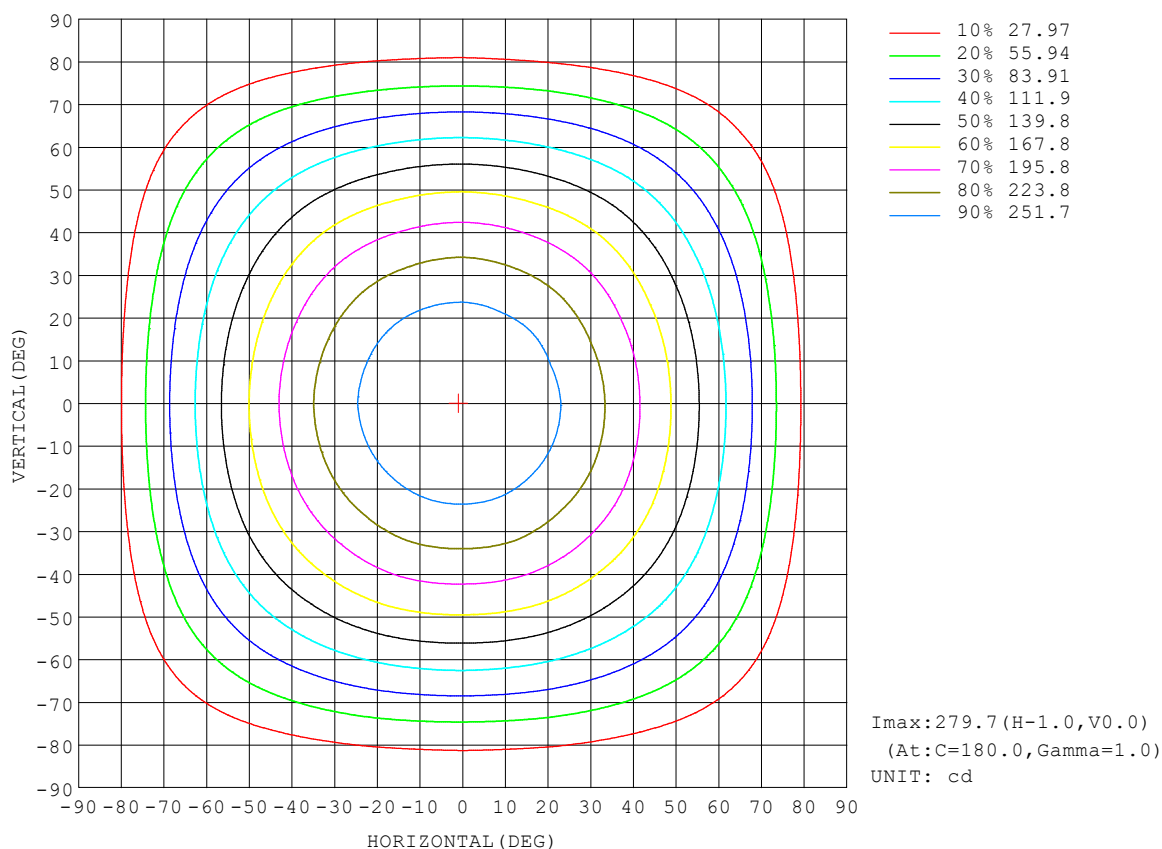
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	58	46	39	57	46	39	56	45	39	32
0.80	68	56	49	67	56	49	65	55	48	41
1.00	76	65	58	75	64	57	73	66	57	50
1.25	83	73	66	82	72	65	79	71	64	57
1.50	88	78	71	87	78	71	84	76	70	62
2.00	95	87	80	93	85	79	90	83	78	70
2.50	99	91	85	97	90	84	93	87	83	74
3.00	102	96	90	100	94	89	96	91	87	78
4.00	106	101	96	104	99	95	100	96	92	83
5.00	109	104	100	106	102	99	102	99	95	86
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators:
 Test Date: 2023-06-29

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
 Humidity: 65.0%
 Test Distance: 3.080m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:119.86V I:0.0990A P:11.579W PF:0.9762 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:790.758x1 lm		
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SPEC.: 2700K 90	DIM.:	SERIAL No.:
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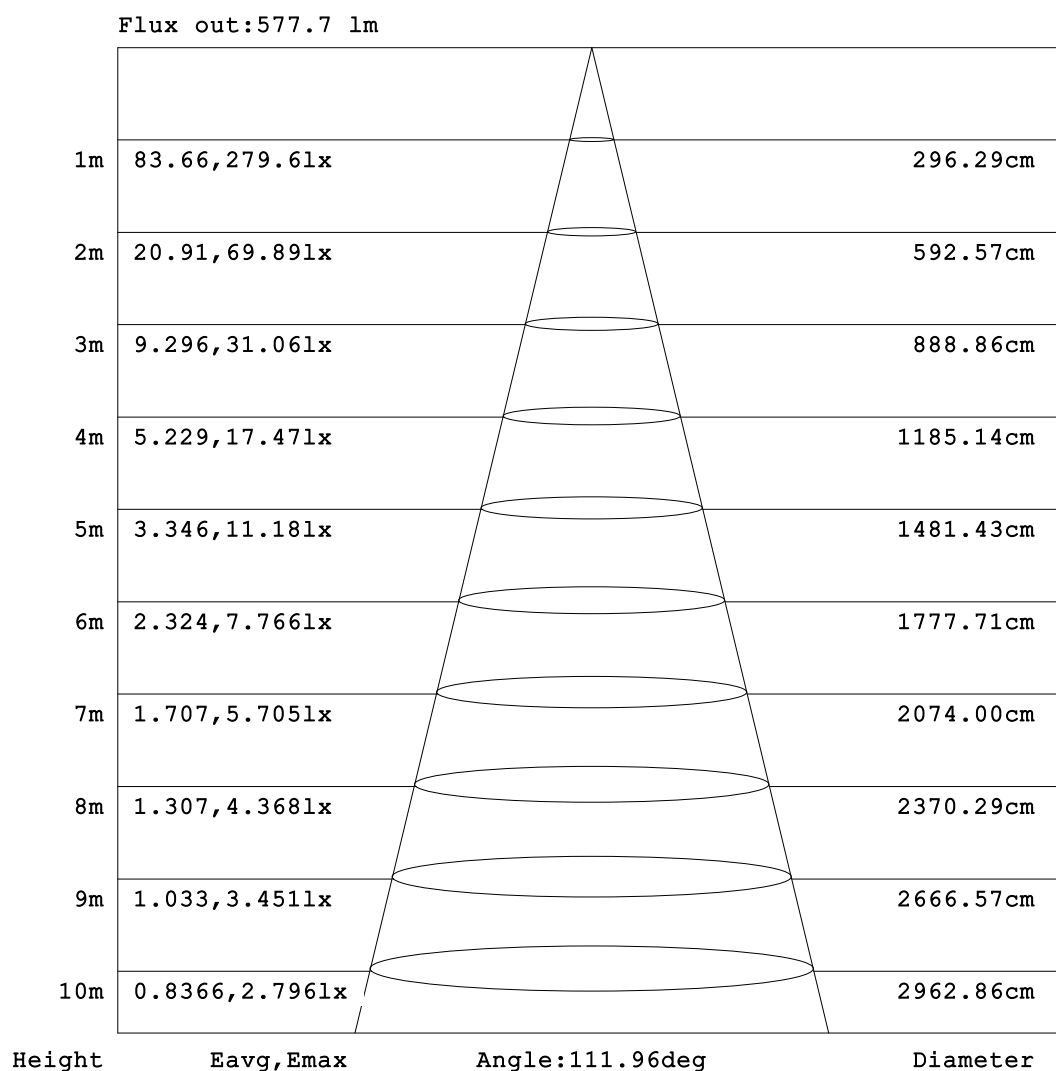


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
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Operators:
Test Date:2023-06-29

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
Humidity:65.0%
Test Distance:3.080m [K=1.0000]
Remarks:

AAI Figure

Test:U:119.86V I:0.0990A P:11.579W PF:0.9762 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:790.758x1 lm		
NAME: 8744WH-90-5CCT2700K	TYPE:	WEIGHT:
SPEC.: 2700K 90	DIM.:	SERIAL No.:
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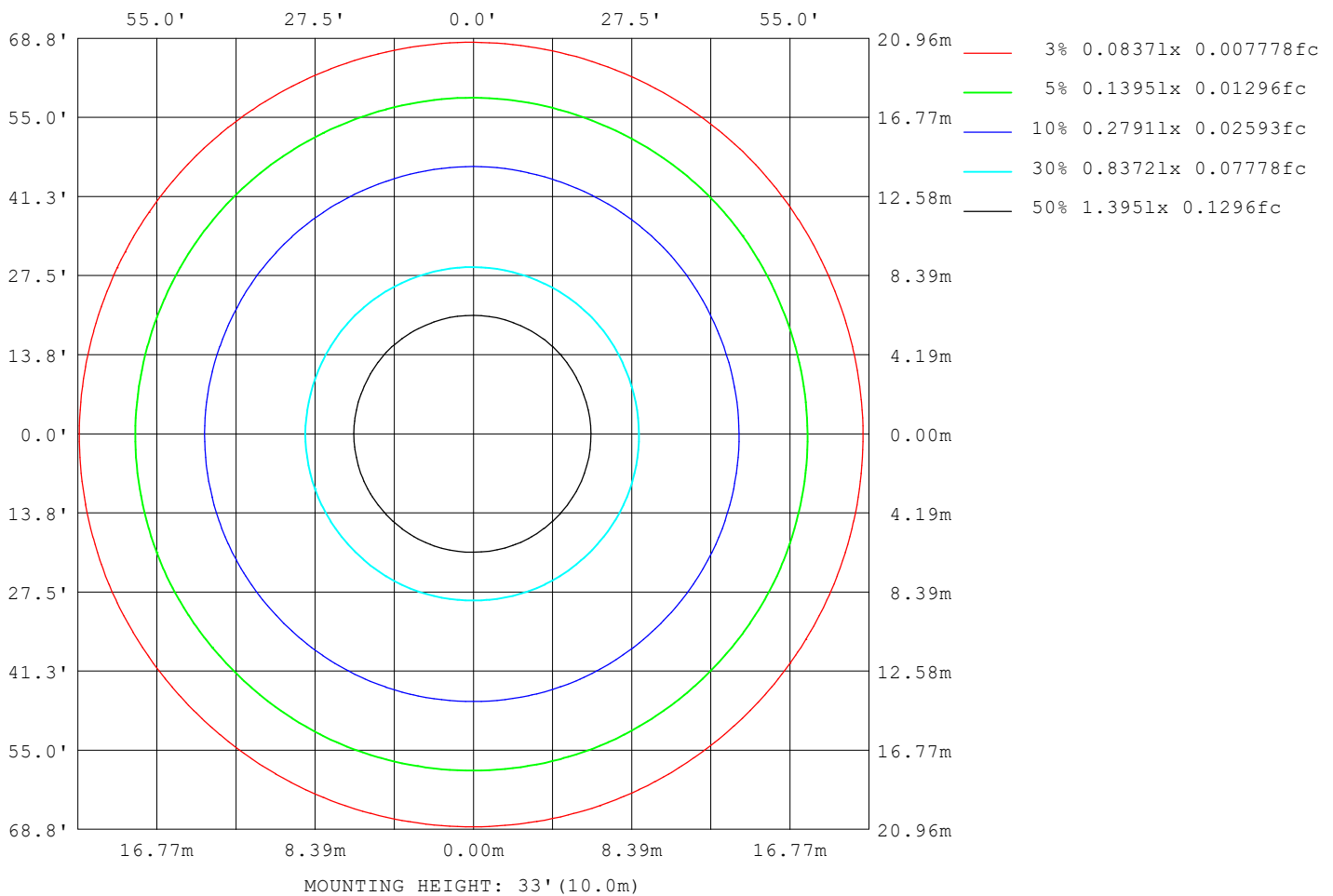
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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Humidity:65.0%
Test Distance:3.080m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:119.86V I:0.0990A P:11.579W PF:0.9762 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:790.758x1 lm		
NAME: 8744WH-90-5CCT 2700K	TYPE:	WEIGHT:
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C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators:
Test Date: 2023-06-29

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
Humidity: 65.0%
Test Distance: 3.080m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:119.86V I:0.0990A P:11.579W PF:0.9762 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:790.758x1 lm		
NAME:8744WH-90-5CCT 2700K	TYPE:	WEIGHT:
SPEC.: 2700K 90	DIM.:	SERIAL No.:
MFR.: RP LIGHTING	SUR.:	Shielding Angle:

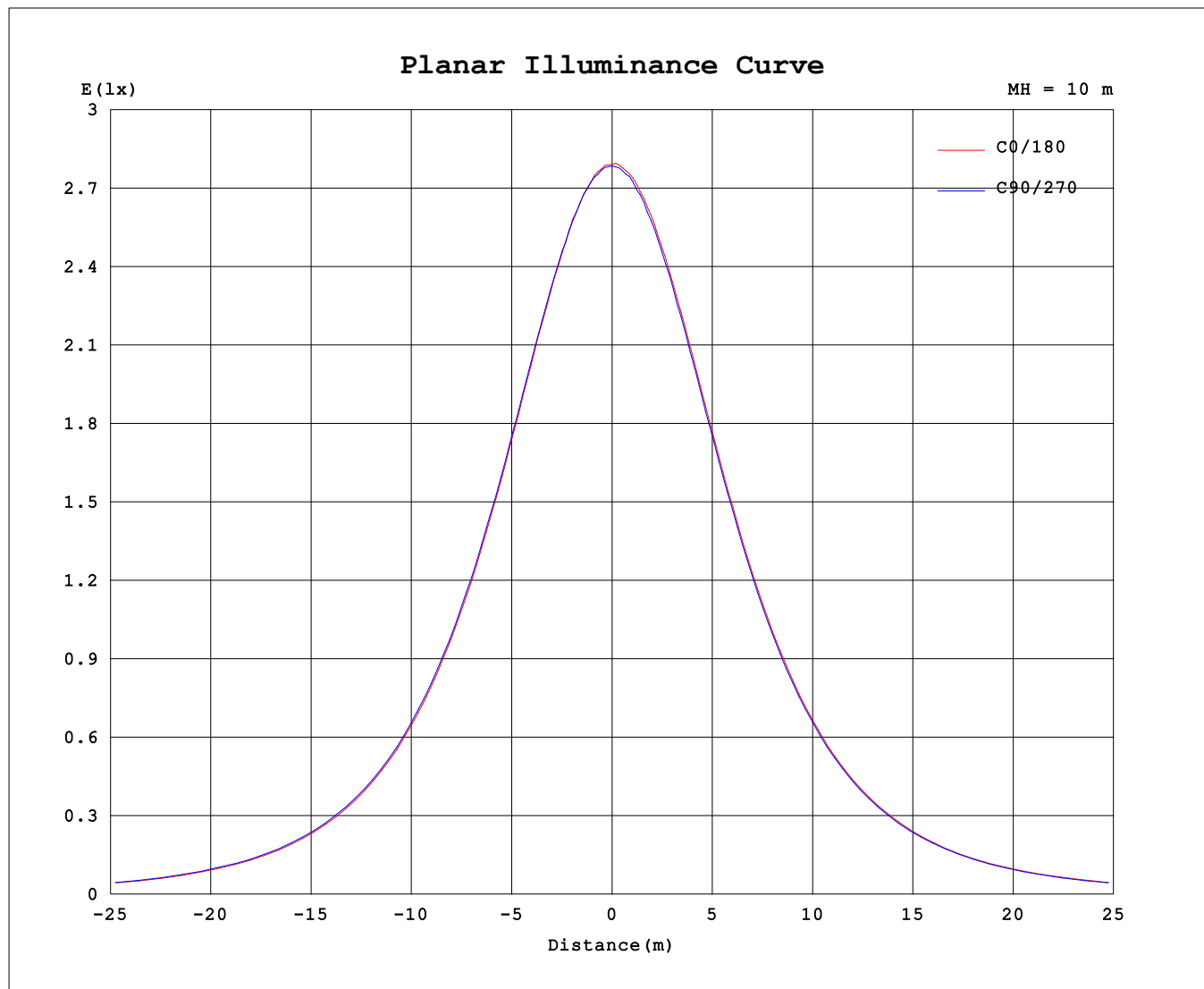
AvgL	cd/m2
L_0~180 (65) av	2109
L_0~180 (75) av	1751
L_0~180 (85) av	438
L_90~270 (65) av	2119
L_90~270 (75) av	1865
L_90~270 (85) av	1395
L_45 (65) av	2112
L_45 (75) av	1819
L_45 (85) av	729

Standard: GB/T 29293-2012

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γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
Humidity:65.0%
Test Distance:3.080m [K=1.0000]
Remarks:

Planar Illuminance Curve



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Test Speed: HIGH
Temperature: 25.3 °C
Operators:
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γ Range: 0 - 90DEG
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Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
Humidity: 65.0%
Test Distance: 3.080m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.86V I:0.0990A P:11.579W PF:0.9762 Freq:59.98Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:790.758x1 lm		
NAME: 8744WH-90-5CCT 2700K	TYPE:	WEIGHT:
SPEC.: 2700K 90	DIM.:	SERIAL No.:
MFR.: RP LIGHTING	SUR.:	Shielding Angle:

Table--1

UNIT: cd

[illegible]

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3℃
Operators:
Test Date: 2023-06-29

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γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.460
Humidity:65.0%
Test Distance:3.080m [K=1.0000]
Remarks:

```