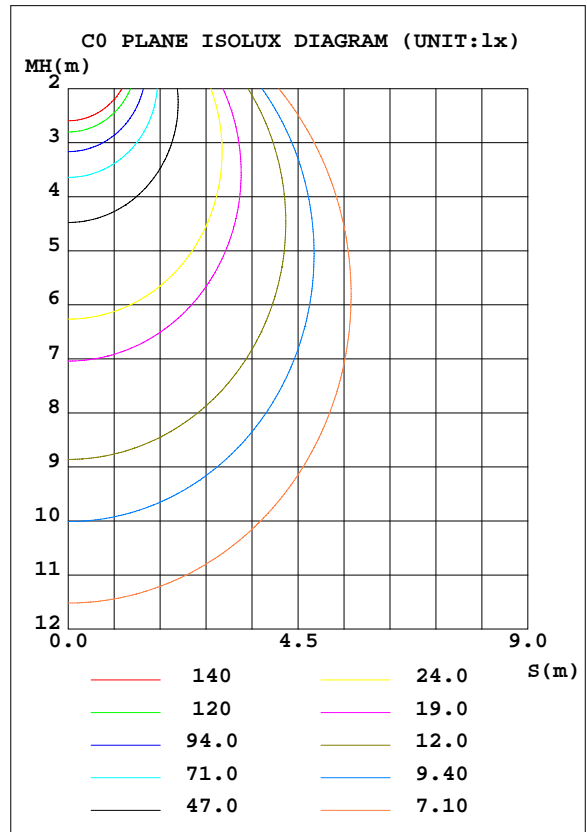
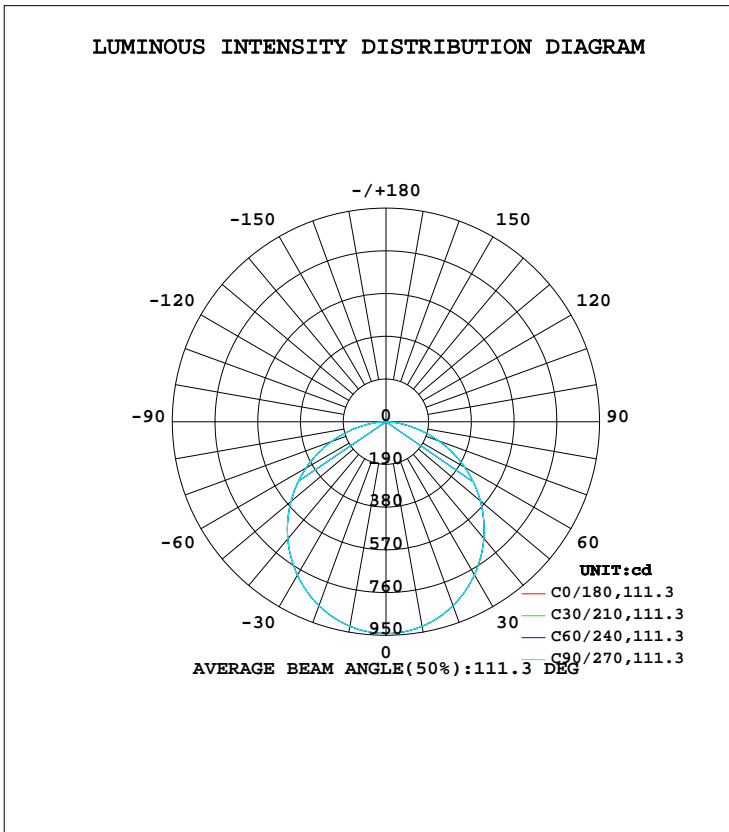


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.59V I:0.1957A P:42.537W PF:0.9856 Freq:49.90Hz Lamp Flux:2654.4x1 lm		
NAME: 5621-840ROP-3	TYPE:	WEIGHT:
SPEC.:	DIM.: 600*3000	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 62.40 lm/W			
MODEL		I _{max} (cd)	941.7	S/MH(C0/180)	1.24
NOMINAL POWER(W)	40W	LOR(%)	100.0	S/MH(C90/270)	1.24
RATED VOLTAGE(V)	220-240	TOTAL FLUX(lm)	2654.4	η UP, DN(C0-180)	0.0,49.7
NOMINAL FLUX(lm)	2654.4	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0,50.3
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	225	η down(%)	100.0	CIBSE SHR MAX	1.35



C Range: 0 - 180DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-04-12

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.10
 Humidity:65.0%
 Test Distance:7.910m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

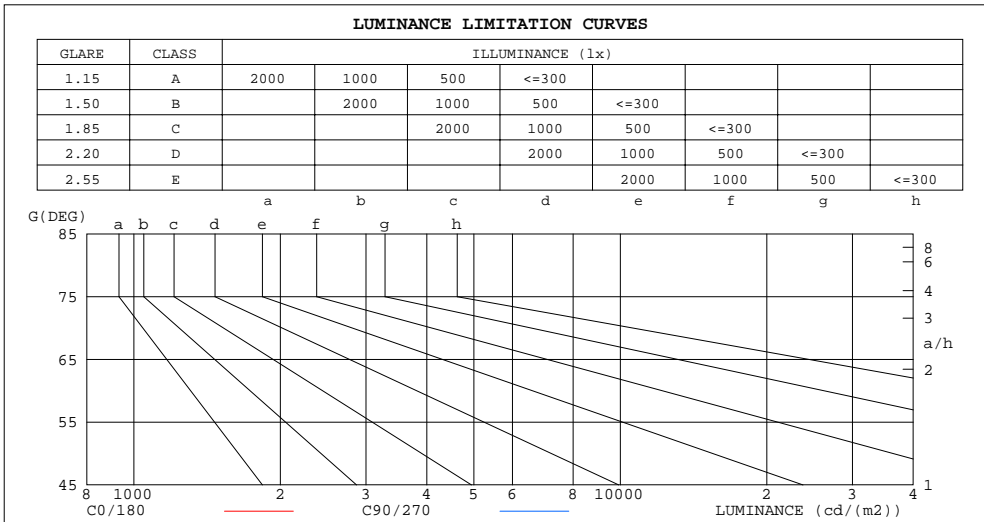
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	lum, lamp
10	923.7	923.7	923.7	923.7	923.5	923.5	923.5	923.5	0- 10	89.03	89.03	3.35,3.35
20	870.8	870.8	870.8	870.8	871.0	871.0	871.0	871.0	10- 20	254.3	343.4	12.9,12.9
30	786.6	786.6	786.6	786.6	787.7	787.7	787.7	787.7	20- 30	383.6	727.0	27.4,27.4
40	677.3	677.3	677.3	677.3	679.7	679.7	679.7	679.7	30- 40	460.1	1187	44.7,44.7
50	547.8	547.8	547.8	547.8	551.8	551.8	551.8	551.8	40- 50	475.2	1662	62.6,62.6
60	403.9	403.9	403.9	403.9	410.2	410.2	410.2	410.2	50- 60	428.9	2091	78.8,78.8
70	250.2	250.2	250.2	250.2	258.8	258.8	258.8	258.8	60- 70	328.0	2419	91.1,91.1
80	97.89	97.89	97.89	97.89	107.6	107.6	107.6	107.6	70- 80	187.1	2606	98.2,98.2
90	3.046	3.046	3.046	3.046	4.328	4.328	4.328	4.328	80- 90	48.13	2654	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 - 180DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-04-12

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.10
 Humidity:65.0%
 Test Distance:7.910m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:220.59V I:0.1957A P:42.537W PF:0.9856 Freq:49.90Hz Lamp Flux:2654.4x1 lm		
NAME: 5621-840ROP-3	TYPE:	WEIGHT:
SPEC.:	DIM.: 600*3000	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	144180	144180
80	199486	199486
75	235514	235514
70	258864	258864
65	274713	274713
60	285852	285852
55	294531	294531
50	301552	301552
45	307559	307559

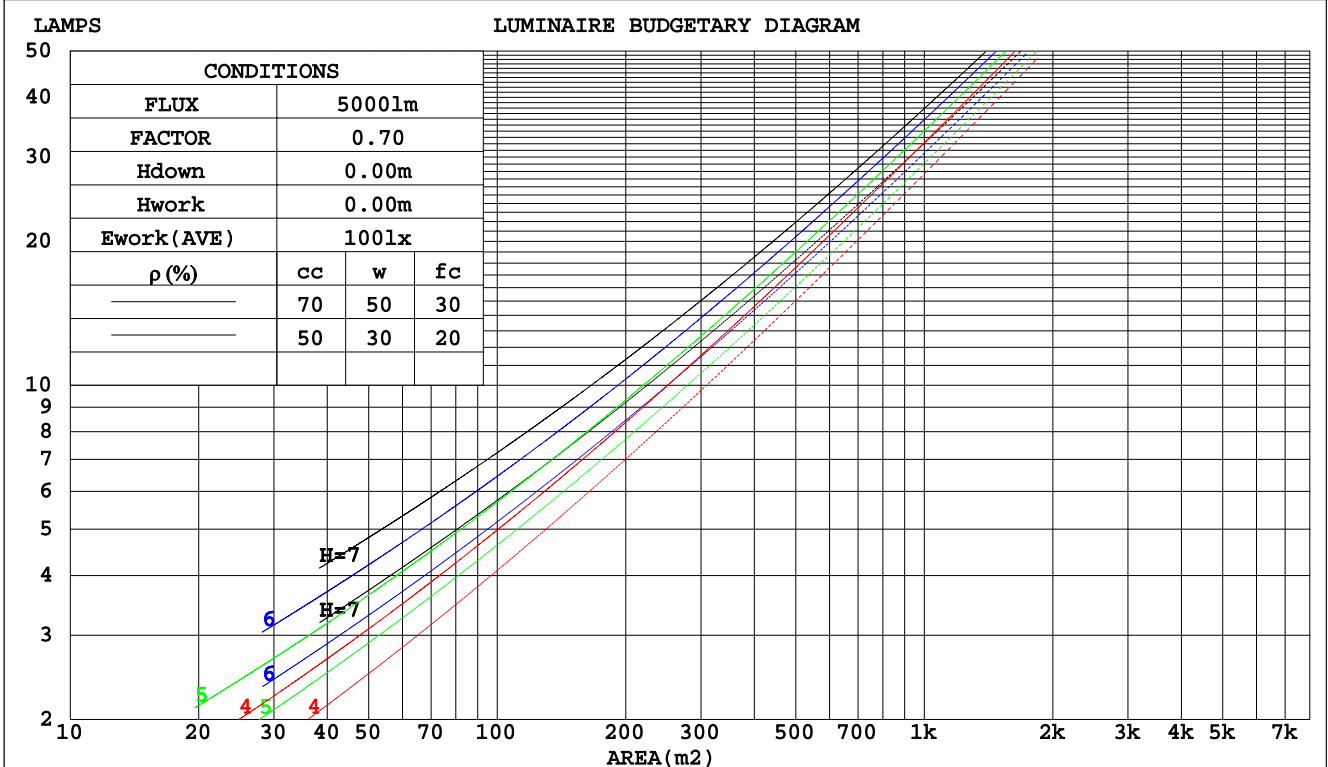
C Range: 0 - 180DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2022-04-12

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.406.10
 Humidity: 65.0%
 Test Distance: 7.910m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.59V I:0.1957A P:42.537W PF:0.9856 Freq:49.90Hz Lamp Flux:2654.4x1 lm		
NAME: 5621-840ROP-3	TYPE:	WEIGHT:
SPEC.:	DIM.: 600*3000	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pw																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	1.04	.00	.96	1.02	.98	.94	.97	.94	.91	.93	.91	.88	.90	.88	.86	.84
2.0	.90	.84	.78	.89	.82	.77	.85	.80	.75	.82	.77	.73	.79	.75	.72	.70
3.0	.79	.71	.65	.78	.70	.64	.75	.68	.63	.72	.66	.62	.69	.65	.61	.59
4.0	.70	.61	.55	.69	.61	.54	.66	.59	.54	.64	.58	.53	.62	.57	.52	.50
5.0	.63	.54	.47	.62	.53	.47	.60	.52	.46	.58	.51	.46	.56	.50	.45	.43
6.0	.57	.48	.41	.56	.47	.41	.54	.46	.40	.52	.45	.40	.50	.44	.40	.38
7.0	.51	.42	.36	.50	.42	.36	.49	.41	.36	.47	.41	.36	.46	.40	.35	.33
8.0	.47	.38	.32	.46	.38	.32	.45	.37	.32	.43	.37	.32	.42	.36	.32	.30
9.0	.43	.35	.29	.42	.34	.29	.41	.34	.29	.40	.33	.29	.39	.33	.29	.27
10.0	.40	.32	.26	.39	.31	.26	.38	.31	.26	.37	.31	.26	.36	.30	.26	.24



C Range: 0 - 180DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2022-04-12

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.406.10
 Humidity: 65.0%
 Test Distance: 7.910m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:220.59V I:0.1957A P:42.537W PF:0.9856 Freq:49.90Hz Lamp Flux:2654.4x1 lm		
NAME: 5621-840ROP-3	TYPE:	WEIGHT:
SPEC.:	DIM.: 600*3000	SERIAL No.:
MFR.:	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						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.309	.176	.056	.302	.172	.055	.289	.166	.053	.277	.160	.051	.265	.154	.050	
2.0	.291	.160	.049	.285	.157	.048	.273	.152	.047	.263	.147	.046	.253	.143	.045	
3.0	.270	.144	.043	.264	.142	.043	.254	.138	.042	.244	.134	.041	.235	.130	.040	
4.0	.249	.129	.038	.244	.128	.038	.235	.125	.037	.226	.122	.037	.219	.119	.036	
5.0	.230	.117	.034	.226	.116	.034	.218	.113	.033	.210	.111	.033	.203	.109	.033	
6.0	.214	.107	.031	.210	.106	.030	.202	.104	.030	.196	.102	.030	.189	.100	.030	
7.0	.199	.098	.028	.195	.097	.028	.189	.095	.027	.183	.094	.027	.177	.092	.027	
8.0	.186	.091	.025	.183	.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	.164	.078	.022	.161	.078	.022	.156	.077	.022	.152	.075	.021	.148	.074	.021	

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						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	.134	.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	.064	.097	.068	.045	.056	.040	.027	.018	.013	.009	
4.0	.157	.101	.058	.135	.087	.051	.093	.061	.036	.054	.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	.070	.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 - 180DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-04-12

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.10
 Humidity:65.0%
 Test Distance:7.910m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:220.59V I:0.1957A P:42.537W PF:0.9856 Freq:49.90Hz Lamp Flux:2654.4x1 lm										
NAME: 5621-840ROP-3					TYPE:			WEIGHT:		
SPEC.:					DIM.: 600*3000			SERIAL No.:		
MFR.:					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	32.6	34.1	32.9	34.3	34.5	32.6	34.1	32.9	34.3	34.5
3H	34.1	35.5	34.4	35.7	36.0	34.1	35.5	34.4	35.7	36.0
4H	34.7	36.0	35.0	36.3	36.5	34.7	36.0	35.0	36.3	36.5
6H	35.1	36.3	35.4	36.6	36.9	35.1	36.3	35.4	36.6	36.9
8H	35.2	36.4	35.5	36.7	37.0	35.2	36.4	35.5	36.7	37.0
12H	35.2	36.4	35.6	36.7	37.0	35.2	36.4	35.6	36.7	37.0
4H 2H	33.2	34.6	33.5	34.8	35.1	33.2	34.6	33.5	34.8	35.1
3H	34.9	36.1	35.2	36.4	36.7	34.9	36.1	35.2	36.4	36.7
4H	35.6	36.7	36.0	37.0	37.3	35.6	36.7	36.0	37.0	37.3
6H	36.1	37.0	36.5	37.4	37.8	36.1	37.0	36.5	37.4	37.8
8H	36.2	37.1	36.6	37.5	37.9	36.2	37.1	36.6	37.5	37.9
12H	36.3	37.1	36.7	37.5	37.9	36.3	37.1	36.7	37.5	37.9
8H 4H	35.8	36.7	36.3	37.1	37.5	35.8	36.7	36.3	37.1	37.5
6H	36.5	37.2	36.9	37.6	38.0	36.5	37.2	36.9	37.6	38.0
8H	36.7	37.3	37.1	37.8	38.2	36.7	37.3	37.1	37.8	38.2
12H	36.8	37.4	37.3	37.8	38.3	36.8	37.4	37.3	37.8	38.3
12H 4H	35.8	36.7	36.3	37.0	37.5	35.8	36.7	36.3	37.0	37.5
6H	36.5	37.2	37.0	37.6	38.0	36.5	37.2	37.0	37.6	38.0
8H	36.8	37.3	37.2	37.8	38.2	36.8	37.3	37.2	37.8	38.2
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.2					+ 0.2 / - 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, 2654 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 3.4)

C Range: 0 - 180DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-04-12

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.10
 Humidity:65.0%
 Test Distance:7.910m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.59V I:0.1957A P:42.537W PF:0.9856 Freq:49.90Hz Lamp Flux:2654.4x1 lm		
NAME: 5621-840ROP-3	TYPE:	WEIGHT:
SPEC.:	DIM.: 600*3000	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

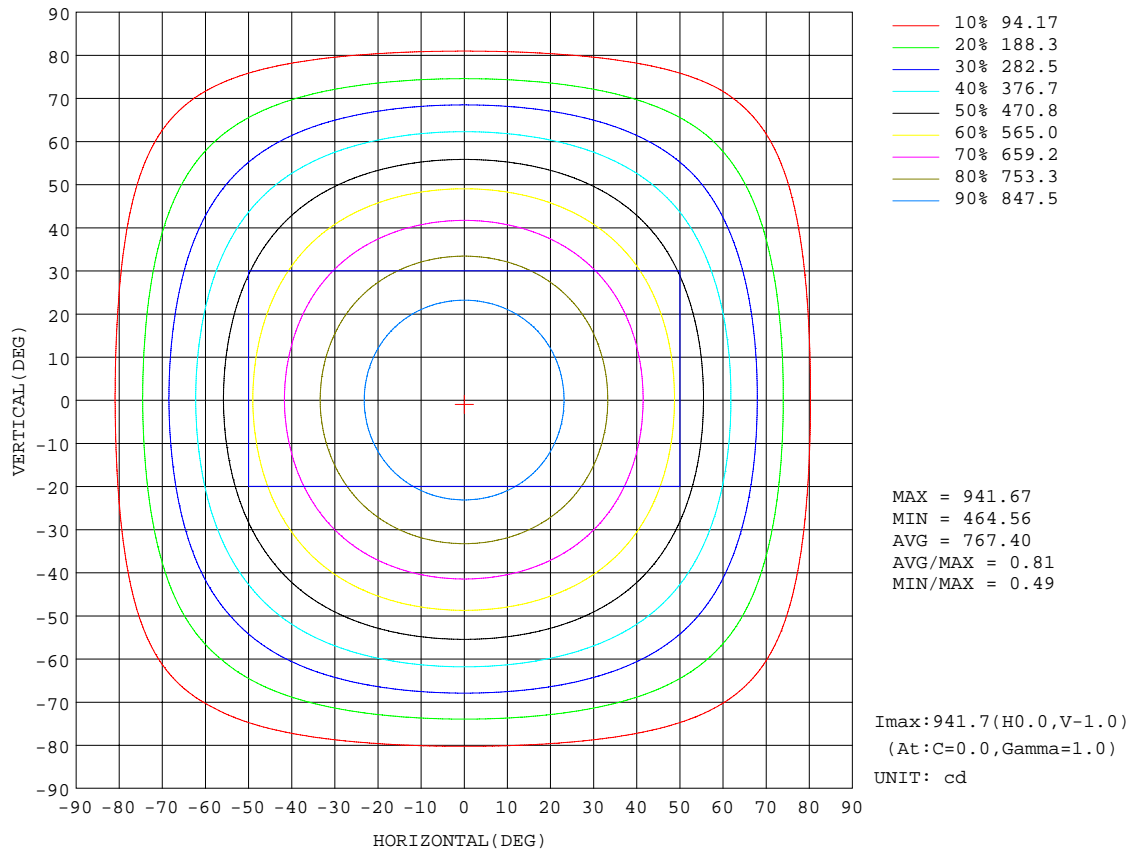
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	58	46	39	57	46	39	56	45	39	32
0.80	68	56	49	67	56	48	65	55	48	41
1.00	76	65	58	75	64	57	73	66	57	50
1.25	83	73	65	82	72	65	79	70	64	57
1.50	88	78	71	86	77	71	83	76	70	62
2.00	95	86	80	93	85	79	90	83	78	70
2.50	99	91	85	97	90	84	93	87	82	74
3.00	102	95	90	100	94	89	96	91	87	78
4.00	106	101	96	104	99	95	100	95	92	83
5.00	109	104	100	106	102	98	102	98	95	86
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 180DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-04-12

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.10
 Humidity:65.0%
 Test Distance:7.910m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:220.59V I:0.1957A P:42.537W PF:0.9856 Freq:49.90Hz Lamp Flux:2654.4x1 lm		
NAME: 5621-840ROP-3	TYPE:	WEIGHT:
SPEC.:	DIM.: 600*3000	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



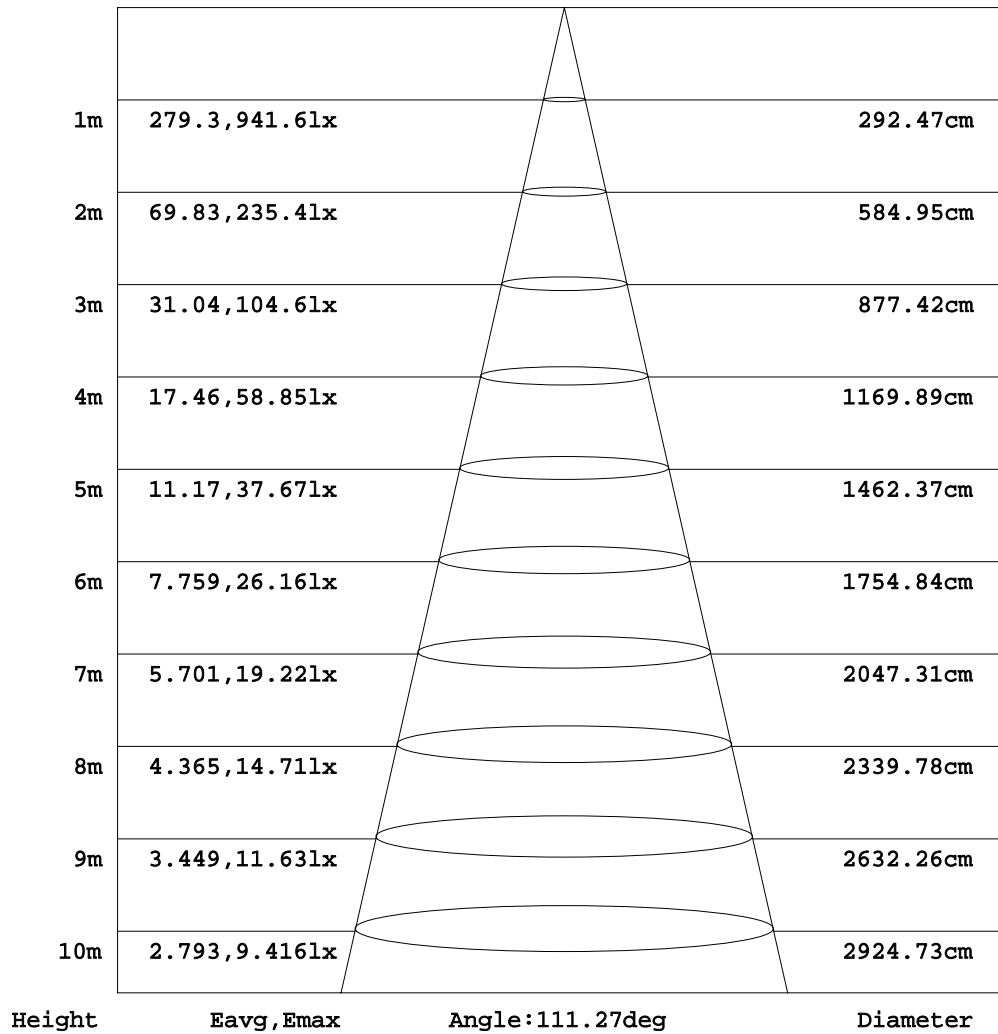
C Range: 0 - 180DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2022-04-12

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.406.10
 Humidity: 65.0%
 Test Distance: 7.910m [K=1.0000]
 Remarks:

AAI Figure

Test:U:220.59V I:0.1957A P:42.537W PF:0.9856 Freq:49.90Hz Lamp Flux:2654.4x1 lm		
NAME: 5621-840ROP-3	TYPE:	WEIGHT:
SPEC.:	DIM.: 600*3000	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Flux out:1929 lm



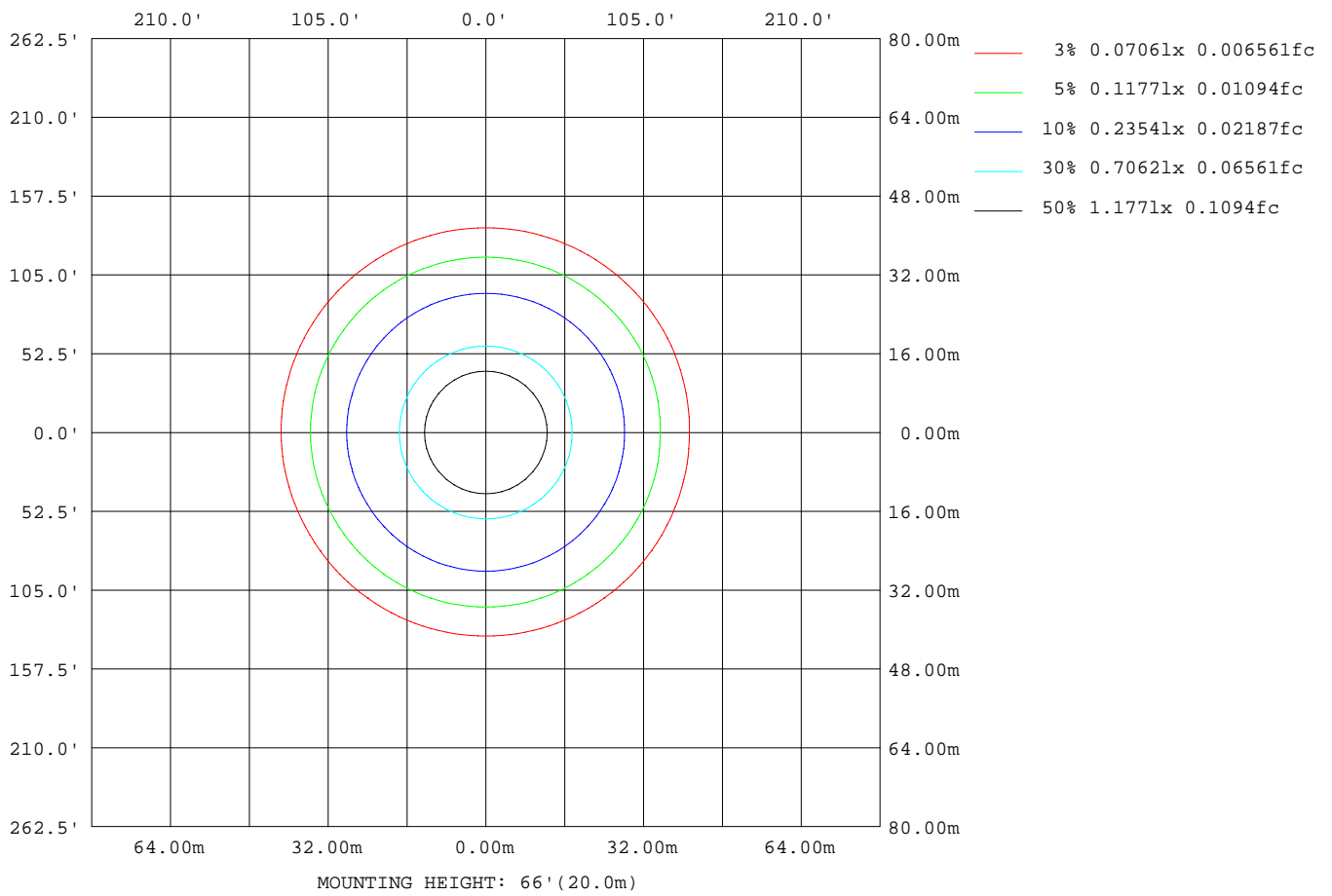
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 180DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-04-12

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.10
 Humidity:65.0%
 Test Distance:7.910m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:220.59V I:0.1957A P:42.537W PF:0.9856 Freq:49.90Hz Lamp Flux:2654.4x1 lm		
NAME: 5621-840ROP-3	TYPE:	WEIGHT:
SPEC.:	DIM.: 600*3000	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 180DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-04-12

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.10
 Humidity:65.0%
 Test Distance:7.910m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:220.59V I:0.1957A P:42.537W PF:0.9856 Freq:49.90Hz Lamp Flux:2654.4x1 lm		
NAME: 5621-840ROP-3	TYPE:	WEIGHT:
SPEC.:	DIM.: 600*3000	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

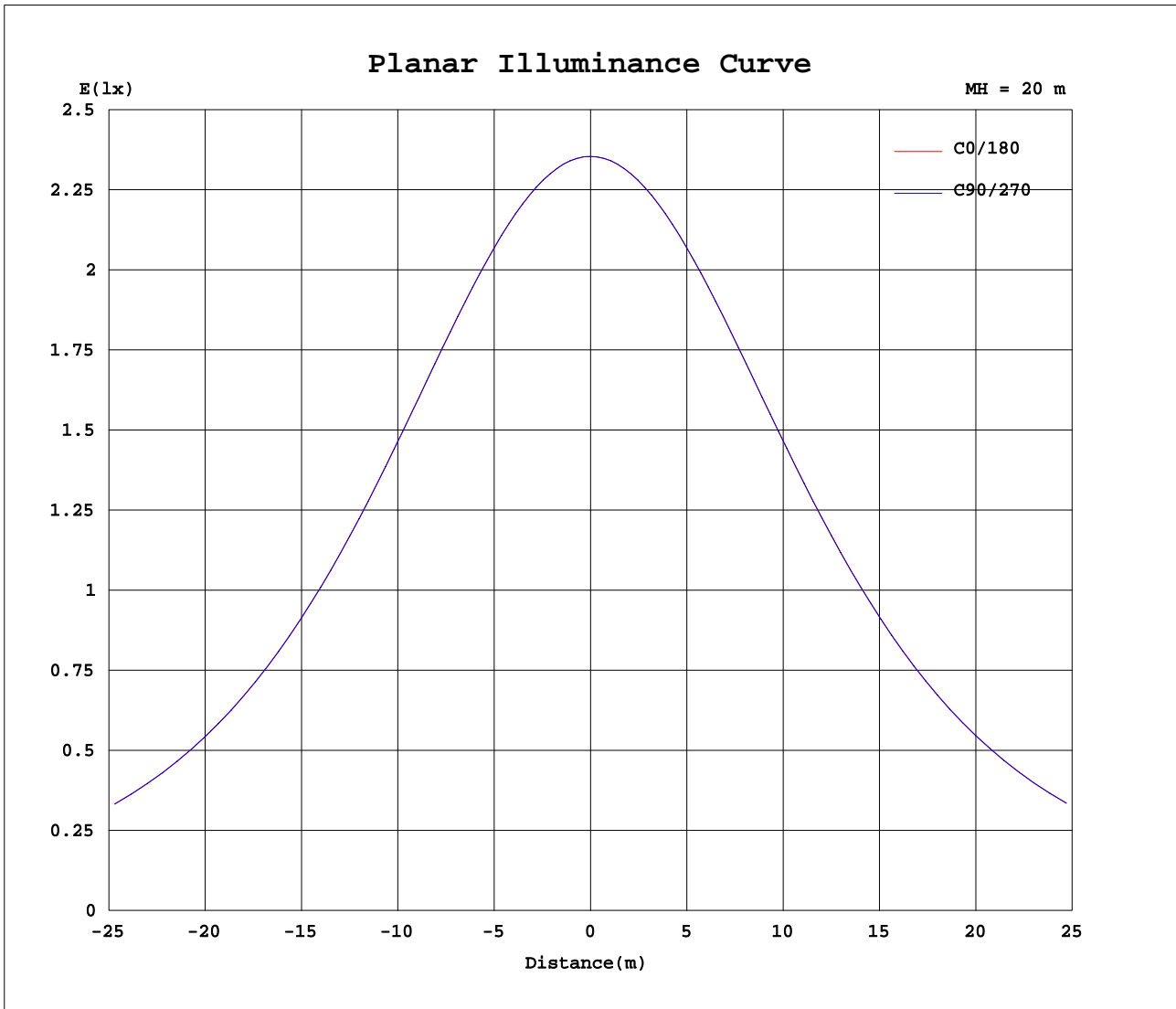
AvgL	cd/m2
L_0~180(65)av	277836
L_0~180(75)av	241894
L_0~180(85)av	160154
L_90~270(65)av	277836
L_90~270(75)av	241894
L_90~270(85)av	160154
L_45(65)av	277836
L_45(75)av	241894
L_45(85)av	160154

Standard: GB/T 29293-2012

C Range: 0 - 180DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-04-12

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.406.10
 Humidity:65.0%
 Test Distance:7.910m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 180DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2022-04-12

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.406.10
 Humidity: 65.0%
 Test Distance: 7.910m [K=1.0000]
 Remarks:

