

Luminaire Photograph



Light Output Ratio:	17.8%	
Luminaire Power:	2.321 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	0.15	fine grid method.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: zoe
Test Date: 2024-10-19

Range: 0 - 180DEG
Interval: 1.0DEG
Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
Humidity: 65.0%
Test Distance: 3.160m [K=1.0000]
Remarks: LAMP: CLU7L3-0104C4-303H5X3 Ra:90
LENS: 35R
NOT DRIVER: DC 24V+converter
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

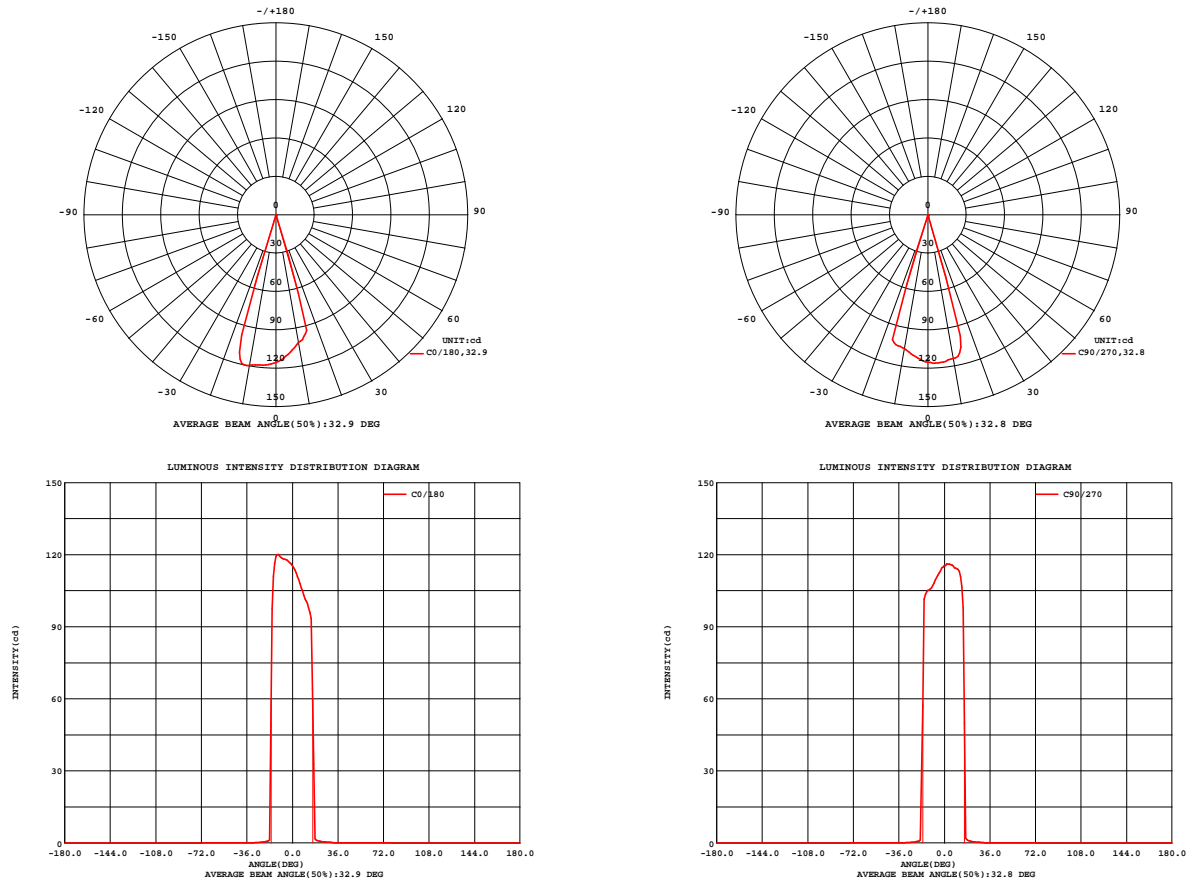


Fig. C0/C180

Fig. C90/C270

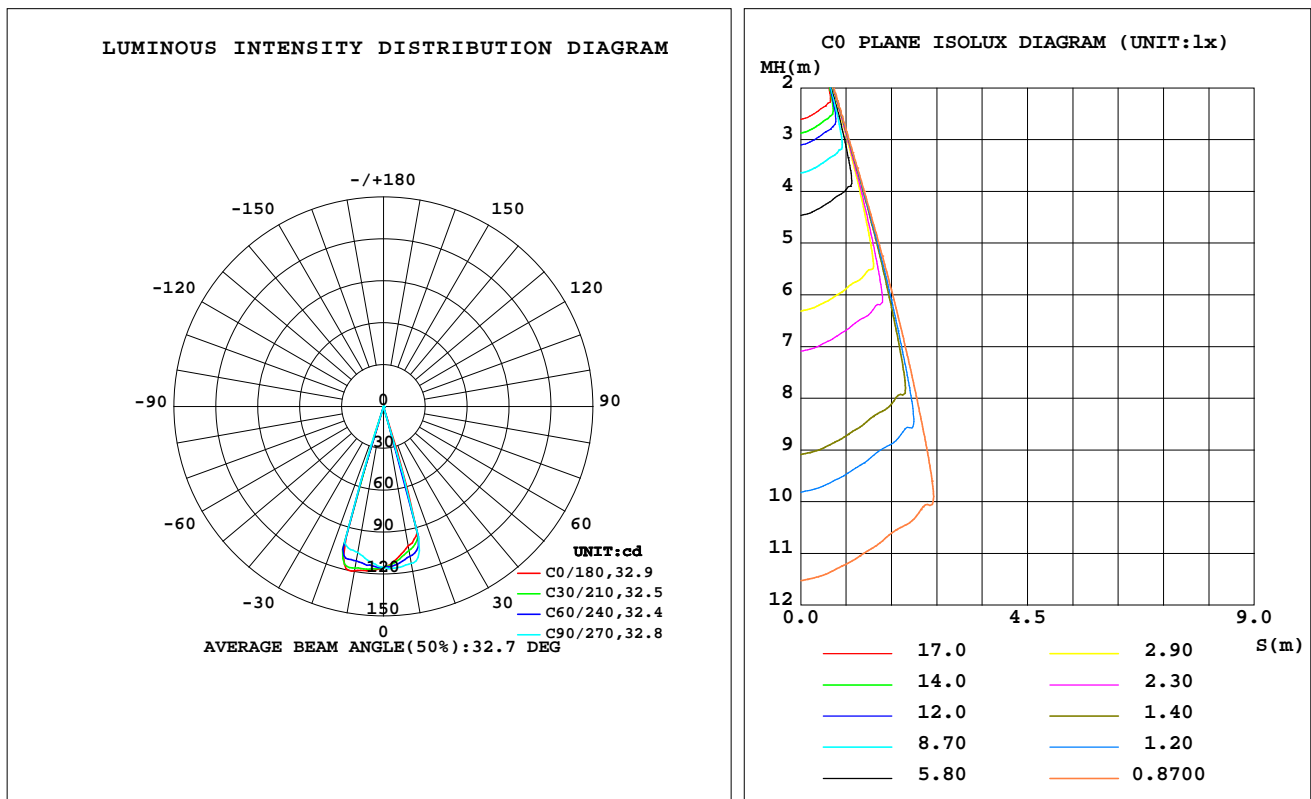
C Range: 0 - 360DEG
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Test Speed: HIGH
Temperature: 25.3 °C
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LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:23.998V I:0.0967A P:2.3206W PF:1.0000 Freq:49.99Hz Lamp Flux:160.22x1 lm		
NAME: 2417.206F	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2410191266
MFR.: RISE	SUR.: 0.000132665m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 12.31 lm/W			
MODEL	CITIZEN	I _{max} (cd)	120.1	S/MH(C0/180)	0.44
NOMINAL POWER(W)	2	LOR(%)	17.8	S/MH(C90/270)	0.46
RATED VOLTAGE(V)	4	TOTAL FLUX(lm)	28.566	UP,DN(C0-180)	0.0,8.4
NOMINAL FLUX(lm)	160.22	CIE CLASS	DIRECT	UP,DN(C180-360)	0.0,9.4
LAMPS INSIDE	1	up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	4	down(%)	17.8	CIBSE SHR MAX	0.15



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ZONAL FLUX DIAGRAM

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	C0	C45	C90	C135	C180	C225	C270	C315		zone	total	%lum,lamp
10	101.5	106.8	114.2	118.9	119.5	114.9	106.2	102.1	0- 10	10.75	10.75	37.6,6.71
20	0.9816	0.8750	0.8508	0.8350	0.7413	0.7885	0.7938	0.8845	10- 20	17.54	28.29	99.17.7
30	0.2692	0.2257	0.2156	0.2234	0.1319	0.1379	0.1518	0.1905	20- 30	0.1818	28.47	99.7,17.8
40	0.0688	0.0439	0.0354	0.0338	0.0356	0.0402	0.0504	0.0708	30- 40	0.0540	28.53	99.9,17.8
50	0.0232	0.0138	0.0093	0.0102	0.0118	0.0146	0.0211	0.0264	40- 50	0.0244	28.55	99.9,17.8
60	0.0108	0.0065	0.0056	0.0049	0.0053	0.0081	0.0096	0.0096	50- 60	0.0090	28.56	100,17.8
70	0.0059	0.0023	0.0000	0.0003	0.0016	0.0036	0.0053	0.0056	60- 70	0.0053	28.57	100,17.8
80	0	0	0	0	0	0	0	0	70- 80	0.0008	28.57	100,17.8
90	0	0	0	0	0	0	0	0	80- 90	0	28.57	100,17.8
100	0	0	0	0	0	0	0	0	90-100	0	28.57	100,17.8
110	0	0	0	0	0	0	0	0	100-110	0	28.57	100,17.8
120	0	0	0	0	0	0	0	0	110-120	0	28.57	100,17.8
130	0	0	0	0	0	0	0	0	120-130	0	28.57	100,17.8
140	0	0	0	0	0	0	0	0	130-140	0	28.57	100,17.8
150	0	0	0	0	0	0	0	0	140-150	0	28.57	100,17.8
160	0	0	0	0	0	0	0	0	150-160	0	28.57	100,17.8
170	0	0	0	0	0	0	0	0	160-170	0	28.57	100,17.8
180	0	0	0	0	0	0	0	0	170-180	0	28.57	100,17.8
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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LUMINANCE LIMITATION CURVES

Test:U:23.998V I:0.0967A P:2.3206W PF:1.0000 Freq:49.99Hz
Lamp Flux:160.22x1 lm

NAME: 2417.206F

TYPE:

WEIGHT:

SPEC.: 3000K

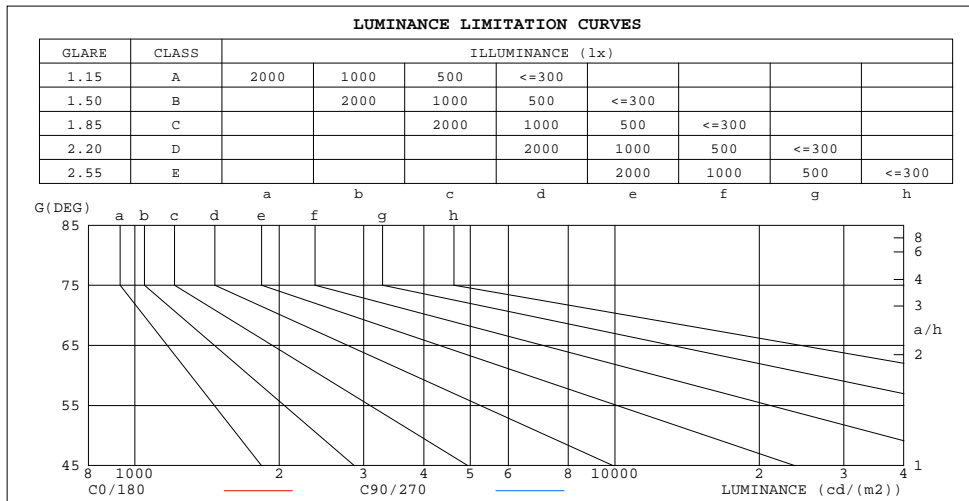
DIM.:

SERIAL No.: 2410191266

MFR.: RISE

SUR.: 0.000132665m2

Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	0	0
80	0	0
75	63	0
70	130	0
65	150	77
60	164	84
55	180	94
50	273	109
45	582	218

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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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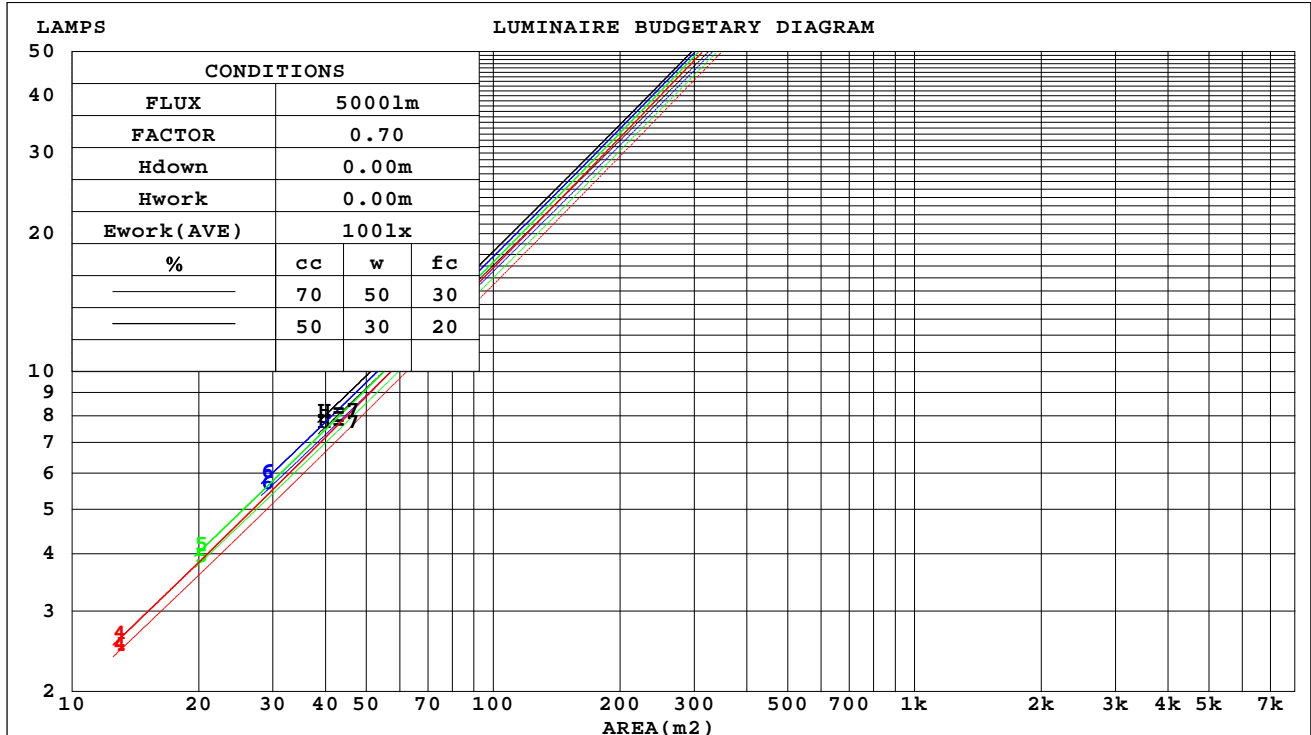
SERIAL No.: 2410191266

MFR.: RISE

SUR.: 0.000132665m2

Shielding Angle:

cc	80%			70%			50%			30%			10%			0
w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															



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WEC AND CCEC

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SPEC.: 3000K	DIM.:	SERIAL No.: 2410191266
MFR.: RISE	SUR.: 0.000132665m2	Shielding Angle:

cc	80%			70%			50%			30%			10%			0			
w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0			
fc	20%			20%			20%			20%			20%			0			
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)												
0.0																			
1.0	.022	.013	.004	.021	.012	.004	.019	.011	.003	.017	.010	.003	.015	.009	.003				
2.0	.020	.011	.003	.020	.011	.003	.018	.010	.003	.016	.009	.003	.015	.008	.003				
3.0	.019	.010	.003	.018	.010	.003	.017	.009	.003	.015	.008	.003	.014	.008	.002				
4.0	.018	.009	.003	.017	.009	.003	.016	.008	.002	.015	.008	.002	.013	.007	.002				
5.0	.016	.008	.002	.016	.008	.002	.015	.008	.002	.014	.007	.002	.013	.007	.002				
6.0	.016	.008	.002	.015	.008	.002	.014	.007	.002	.013	.007	.002	.013	.007	.002				
7.0	.015	.007	.002	.014	.007	.002	.014	.007	.002	.013	.007	.002	.012	.006	.002				
8.0	.014	.007	.002	.014	.007	.002	.013	.006	.002	.012	.006	.002	.012	.006	.002				
9.0	.013	.006	.002	.013	.006	.002	.012	.006	.002	.012	.006	.002	.011	.006	.002				
10.0	.013	.006	.002	.013	.006	.002	.012	.006	.002	.012	.006	.002	.011	.006	.002				

cc	80%			70%			50%			30%			10%			0
w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Ceiling Cavity Exitance Coefficients(CCEC)												
0.0	.034	.034	.034	.029	.029	.029	.020	.020	.020	.011	.011	.011	.004	.004	.004	
1.0	.030	.028	.027	.026	.024	.023	.017	.017	.016	.010	.010	.009	.003	.003	.003	
2.0	.027	.024	.021	.023	.020	.018	.016	.014	.013	.009	.008	.008	.003	.003	.002	
3.0	.024	.020	.017	.020	.017	.015	.014	.012	.011	.008	.007	.006	.003	.002	.002	
4.0	.021	.017	.014	.018	.015	.013	.013	.010	.009	.007	.006	.005	.002	.002	.002	
5.0	.019	.015	.012	.017	.013	.010	.011	.009	.007	.007	.005	.004	.002	.002	.001	
6.0	.018	.013	.010	.015	.012	.009	.011	.008	.006	.006	.005	.004	.002	.002	.001	
7.0	.016	.012	.009	.014	.010	.008	.010	.007	.005	.006	.004	.003	.002	.001	.001	
8.0	.015	.011	.008	.013	.009	.007	.009	.006	.005	.005	.004	.003	.002	.001	.001	
9.0	.014	.010	.007	.012	.008	.006	.008	.006	.004	.005	.003	.002	.002	.001	.001	
10.0	.013	.009	.006	.011	.008	.005	.008	.005	.004	.005	.003	.002	.001	.001	.001	

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UGR(Unified Glare Rating) Table

Test:U:23.998V I:0.0967A P:2.3206W PF:1.0000 Freq:49.99Hz Lamp Flux:160.22x1 lm										
NAME: 2417.206F					TYPE:			WEIGHT:		
SPEC.: 3000K					DIM.:			SERIAL No.: 2410191266		
MFR.: RISE					SUR.: 0.000132665m2			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	-4.3	-3.8	-4.1	-3.6	-3.5	-7.4	-6.8	-7.2	-6.7	-6.5
3H	-3.9	-3.3	-3.6	-3.2	-3.0	-7.4	-6.8	-7.1	-6.7	-6.5
4H	-3.9	-3.4	-3.7	-3.2	-3.0	-7.5	-6.9	-7.2	-6.7	-6.5
6H	-4.0	-3.5	-3.7	-3.3	-3.0	-7.5	-7.1	-7.3	-6.8	-6.6
8H	-4.0	-3.6	-3.7	-3.3	-3.1	-7.6	-7.1	-7.3	-6.9	-6.6
12H	-4.1	-3.6	-3.8	-3.4	-3.1	-7.6	-7.2	-7.3	-6.9	-6.7
4H 2H	-4.4	-3.8	-4.1	-3.6	-3.4	-7.2	-6.7	-7.0	-6.5	-6.3
3H	-3.9	-3.4	-3.6	-3.2	-2.9	-7.2	-6.8	-6.9	-6.5	-6.3
4H	-3.9	-3.5	-3.6	-3.2	-2.9	-7.3	-6.9	-7.0	-6.6	-6.3
6H	-4.0	-3.6	-3.7	-3.3	-3.0	-7.4	-7.1	-7.1	-6.7	-6.4
8H	-4.1	-3.7	-3.7	-3.4	-3.0	-7.5	-7.1	-7.1	-6.8	-6.4
12H	-4.1	-3.8	-3.7	-3.4	-3.1	-7.5	-7.2	-7.1	-6.9	-6.5
8H 4H	-4.1	-3.7	-3.7	-3.4	-3.0	-7.4	-7.1	-7.0	-6.7	-6.4
6H	-4.2	-3.9	-3.8	-3.5	-3.1	-7.5	-7.2	-7.1	-6.9	-6.5
8H	-4.3	-4.0	-3.8	-3.6	-3.1	-7.6	-7.3	-7.2	-6.9	-6.5
12H	-4.3	-4.1	-3.9	-3.7	-3.2	-7.7	-7.4	-7.2	-7.0	-6.5
12H 4H	-4.1	-3.8	-3.7	-3.4	-3.1	-7.5	-7.2	-7.1	-6.8	-6.4
6H	-4.3	-4.0	-3.8	-3.6	-3.1	-7.6	-7.3	-7.2	-6.9	-6.5
8H	-4.3	-4.1	-3.9	-3.7	-3.2	-7.7	-7.4	-7.2	-7.0	-6.5
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 2.4 / - 3.2					+ 2.2 / - 5.8				
1.5H	+ 3.1 / - 4.2					+ 2.9 / - 3.4				
2.0H	+ 5.7 / - 5.2					+ 3.2 / - 3.4				

CIE Pub.117, 160.2 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -6.4)
Area: 0.000132665 m2

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UTILIZATION FACTORS TABLE

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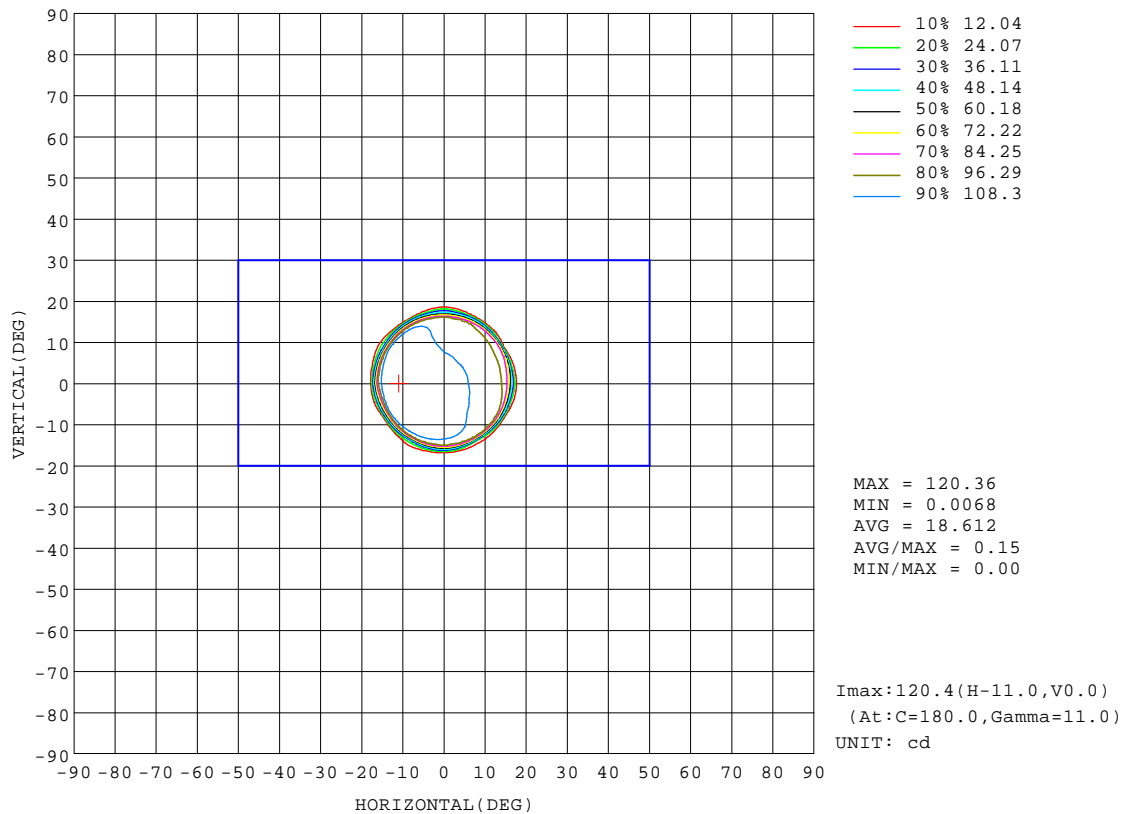
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	16	15	15	16	15	15	16	15	15	14
0.80	18	17	16	17	17	16	17	16	16	15
1.00	18	17	17	18	17	17	18	17	17	16
1.25	19	18	17	19	18	17	18	18	17	17
1.50	19	18	18	19	18	18	19	18	18	17
2.00	20	19	18	19	19	18	19	18	18	17
2.50	20	19	19	20	19	19	19	19	18	17
3.00	20	20	19	20	19	19	19	19	19	17
4.00	20	20	20	20	20	19	19	19	19	18
5.00	21	20	20	20	20	20	20	19	19	18
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

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ISOCANDELA DIAGRAM

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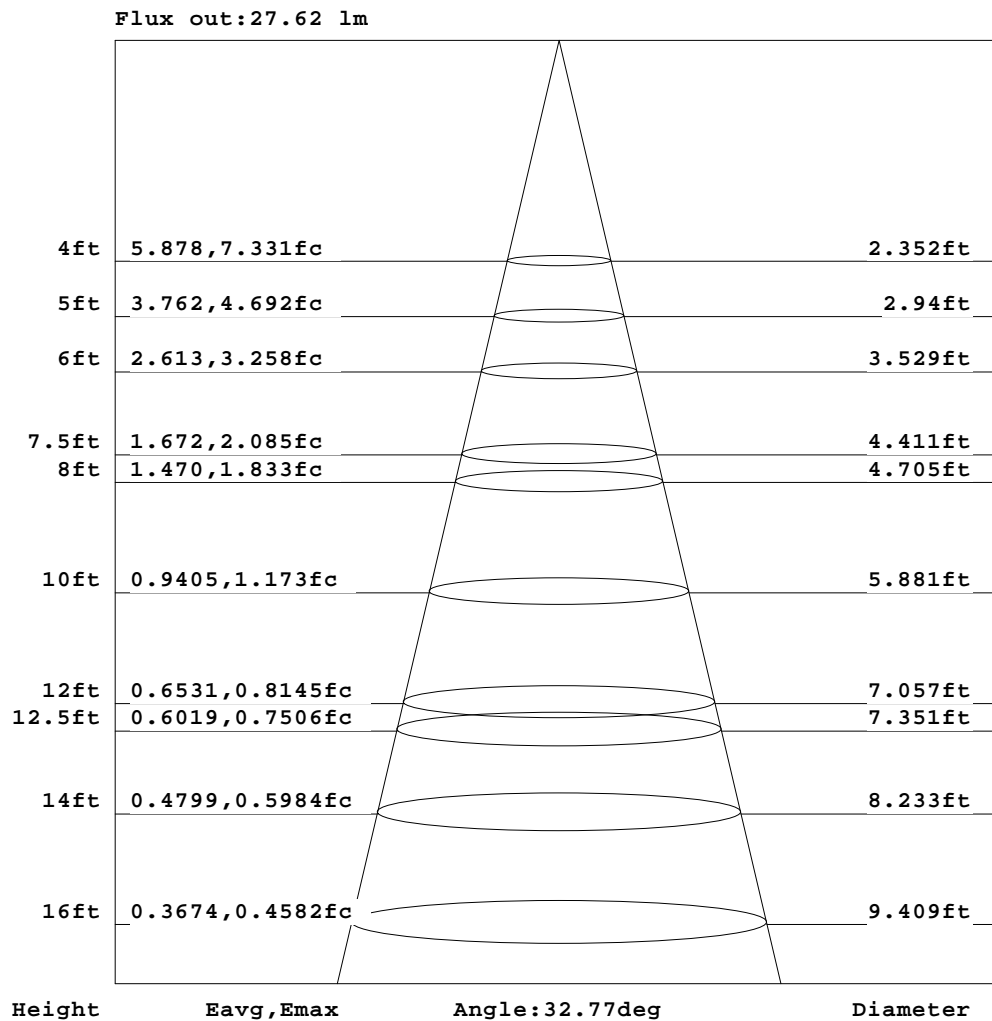


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AAI Figure

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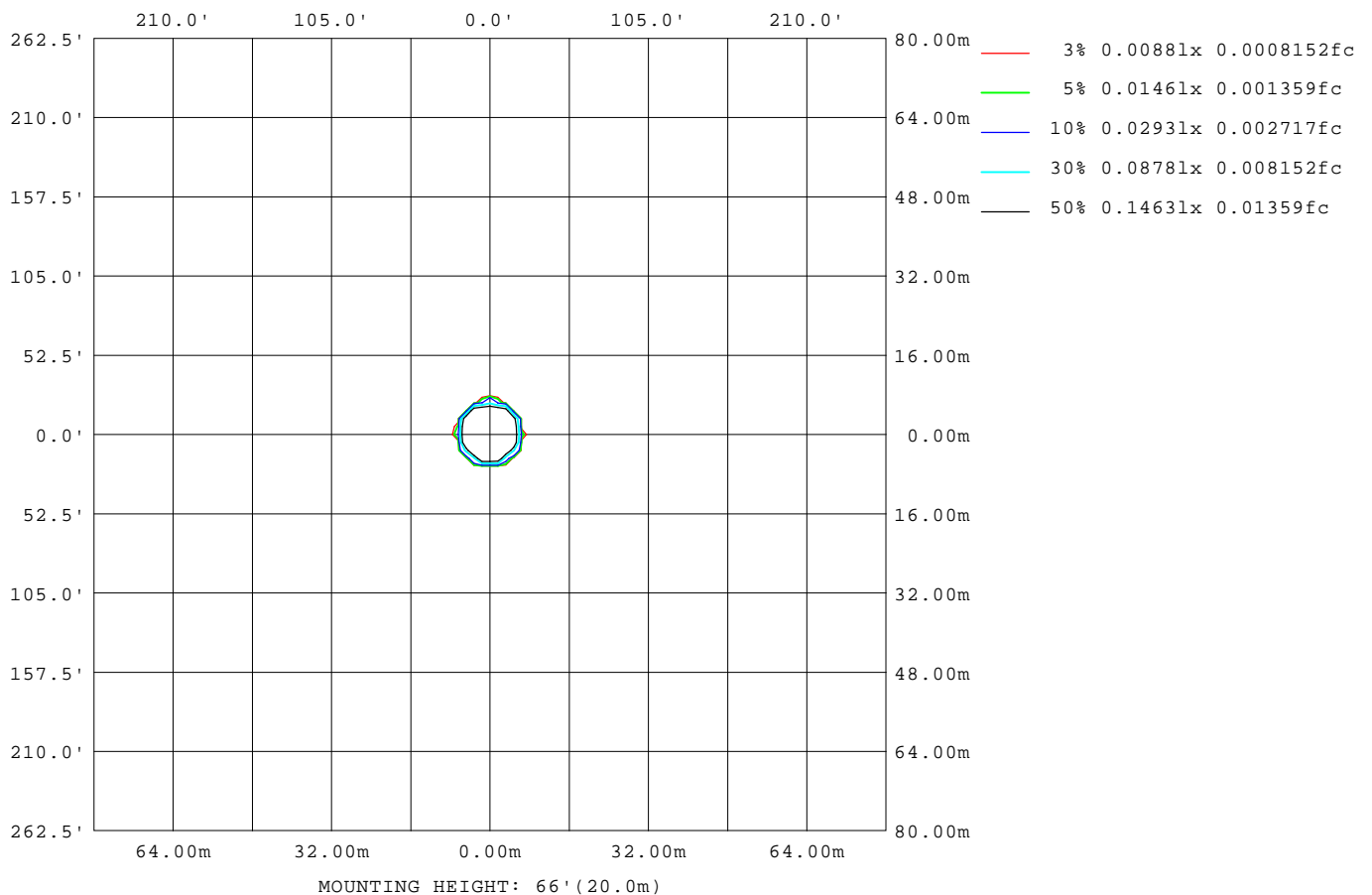
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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NAME: 2417.206F	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2410191266
MFR.: RISE	SUR.: 0.000132665m2	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2024-10-19

Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:CLU7L3-0104C4-303H5X3 Ra:90
LENS:35R
NOT DRIVER:DC 24V+converter
30minutes warm-up

LED Avg.L Report

Test:U:23.998V I:0.0967A P:2.3206W PF:1.0000 Freq:49.99Hz Lamp Flux:160.22x1 lm		
NAME: 2417.206F	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2410191266
MFR.: RISE	SUR.: 0.000132665m2	Shielding Angle:

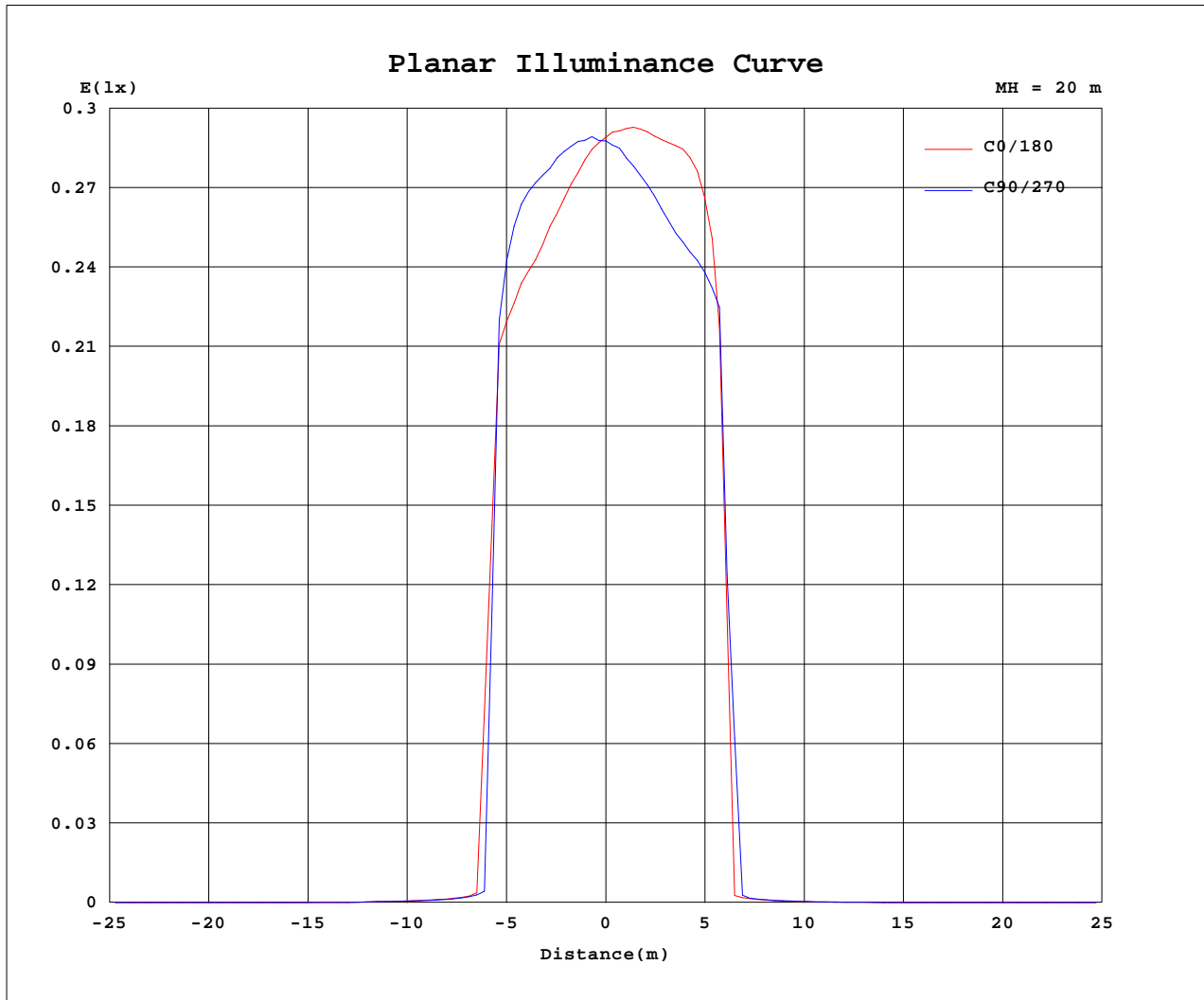
AvgL	cd/m2
L_0~180(65)av	121
L_0~180(75)av	32
L_0~180(85)av	0
L_90~270(65)av	91
L_90~270(75)av	0
L_90~270(85)av	0
L_45(65)av	102
L_45(75)av	4
L_45(85)av	0

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2024-10-19

Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:CLU7L3-0104C4-303H5X3 Ra:90
LENS:35R
NOT DRIVER:DC 24V+converter
30minutes warm-up

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3 °C
 Operators: zoe
 Test Date: 2024-10-19

Range: 0 - 180DEG
 Interval: 1.0DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
 Humidity: 65.0%
 Test Distance: 3.160m [K=1.0000]
 Remarks: LAMP: CLU7L3-0104C4-303H5X3 Ra:90
 LENS: 35R
 NOT DRIVER: DC 24V+converter
 30minutes warm-up



LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:23.998V I:0.0967A P:2.3206W PF:1.0000 Freq:49.99Hz Lamp Flux:160.22x1 lm		
NAME: 2417.206F	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2410191266
MFR.: RISE	SUR.: 0.000132665m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	115	115	115	115	115	115	115	115	115	115	115	115						
5	110	111	113	116	118	118	118	117	114	111	110	109						
10	102	105	109	114	118	120	119	118	112	106	103	102						
15	93.5	96.2	96.5	97.9	102	107	111	113	110	103	97.2	94.4						
20	0.98	0.92	0.83	0.85	0.84	0.83	0.74	0.78	0.79	0.79	0.86	0.91						
25	0.46	0.41	0.37	0.38	0.38	0.38	0.29	0.30	0.31	0.32	0.36	0.39						
30	0.27	0.24	0.21	0.22	0.22	0.22	0.13	0.13	0.14	0.15	0.18	0.20						
35	0.10	0.08	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.08	0.10	0.11						
40	0.07	0.05	0.04	0.04	0.03	0.03	0.04	0.04	0.04	0.05	0.07	0.08						
45	0.05	0.04	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.05	0.06						
50	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.03						
55	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02						
60	0.01	0.01	0.00	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01						
65	0.01	0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01						
70	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01						
75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						

C Range: 0 - 360DEG
C Interval: 30.0DEG
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Operators:zoe
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