

Luminaire Photograph



Light Output Ratio:	16.1%	
Luminaire Power:	2.318 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	0.10	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: 18R
NOT DRIVER: DC 24V +converter
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

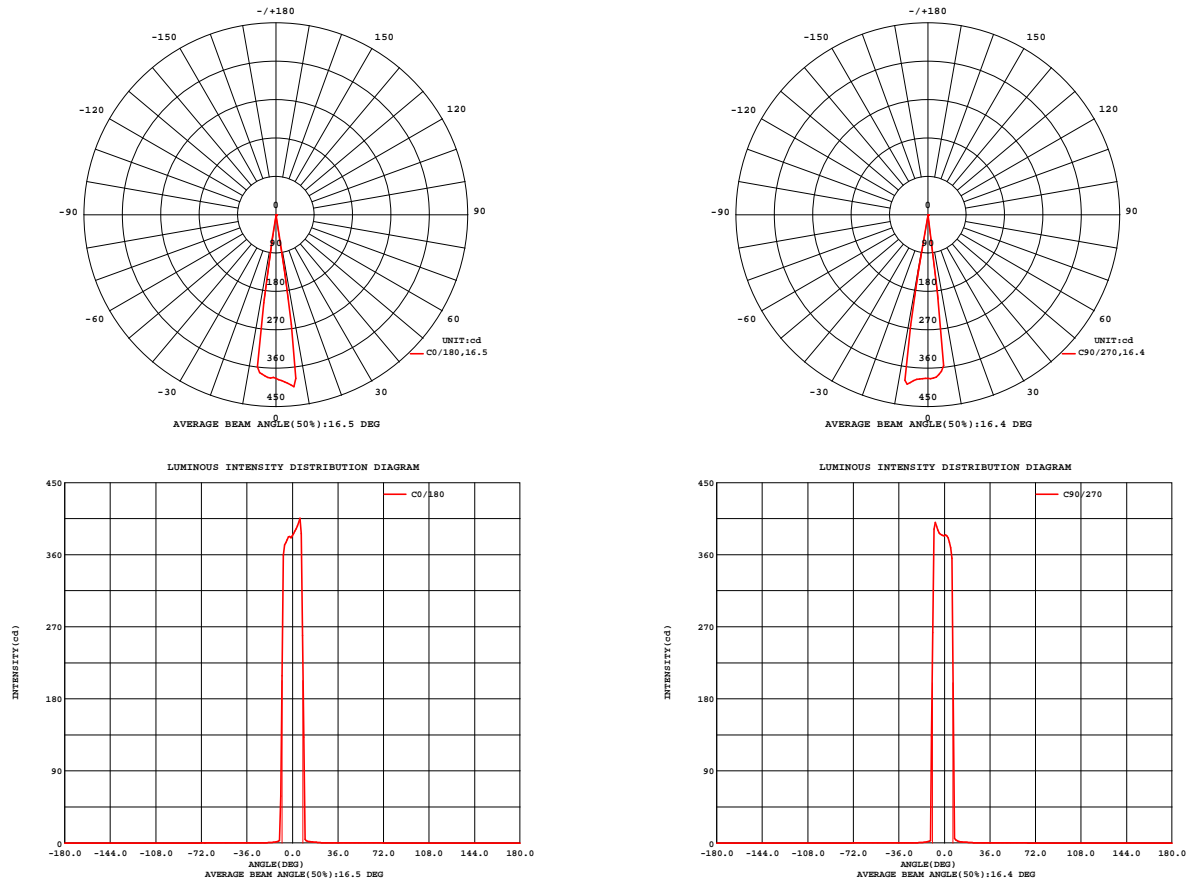


Fig. C0/C180

Fig. C90/C270

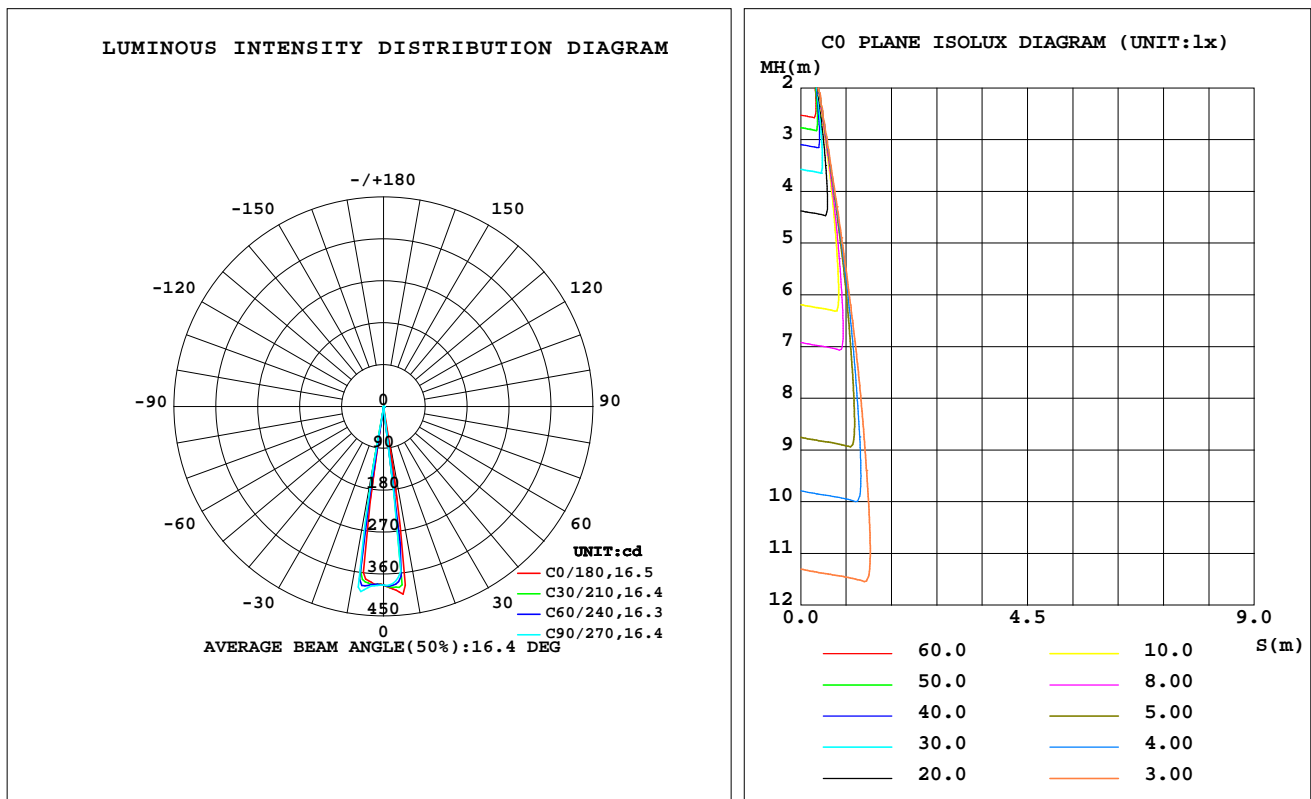
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Test Speed: HIGH
Temperature: 25.3 °C
Operators: zoe
Test Date: 2024-10-19

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30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:23.998V I:0.0966A P:2.3182W PF:1.0000 Freq:49.99Hz Lamp Flux:160.22x1 lm		
NAME: 2417.206F	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2410191265
MFR.: RISE	SUR.: 0.000132665m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 11.13 lm/W			
MODEL	CITIZEN	I _{max} (cd)	411.9	S/MH(C0/180)	0.22
NOMINAL POWER(W)	2	LOR(%)	16.1	S/MH(C90/270)	0.26
RATED VOLTAGE(V)	4	TOTAL FLUX(lm)	25.803	UP,DN(C0-180)	0.0,6.9
NOMINAL FLUX(lm)	160.22	CIE CLASS	DIRECT	UP,DN(C180-360)	0.0,9.2
LAMPS INSIDE	1	up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	4	down(%)	16.1	CIBSE SHR MAX	0.10



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ZONAL FLUX DIAGRAM

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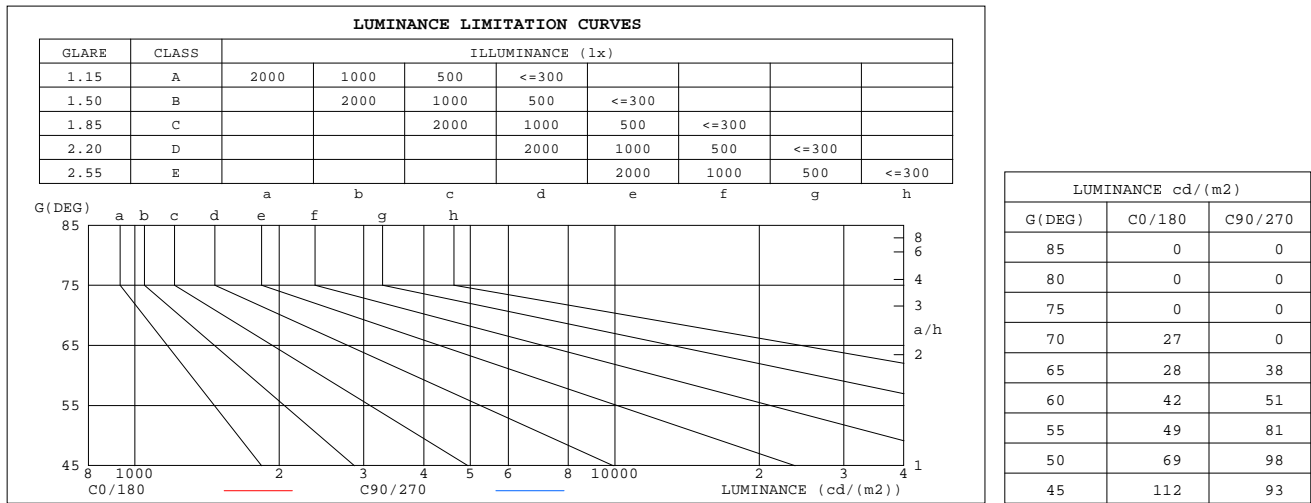
	C0	C45	C90	C135	C180	C225	C270	C315		zone	total	%lum,lamp
10	4.750	3.005	2.847	3.937	3.212	62.36	132.7	4.741	0- 10	25.10	25.10	97.3,15.7
20	0.7663	0.7304	0.7022	0.6865	0.3505	0.3960	0.4609	0.4303	10- 20	0.5640	25.67	99.5,16
30	0.0674	0.0603	0.0618	0.0661	0.0692	0.0708	0.0713	0.0679	20- 30	0.0981	25.76	99.8,16.1
40	0.0180	0.0184	0.0202	0.0212	0.0205	0.0211	0.0205	0.0195	30- 40	0.0235	25.79	99.9,16.1
50	0.0059	0.0061	0.0084	0.0063	0.0078	0.0073	0.0062	0.0060	40- 50	0.0091	25.80	100,16.1
60	0.0028	0.0030	0.0034	0.0048	0.0019	0.0016	0.0016	0.0023	50- 60	0.0046	25.80	100,16.1
70	0.0012	0.0000	0	0.0006	0.0000	0.0008	0.0022	0.0021	60- 70	0.0022	25.80	100,16.1
80	0	0	0	0	0	0	0	0	70- 80	0.0002	25.80	100,16.1
90	0	0	0	0	0	0	0	0	80- 90	0	25.80	100,16.1
100	0	0	0	0	0	0	0	0	90-100	0	25.80	100,16.1
110	0	0	0	0	0	0	0	0	100-110	0	25.80	100,16.1
120	0	0	0	0	0	0	0	0	110-120	0	25.80	100,16.1
130	0	0	0	0	0	0	0	0	120-130	0	25.80	100,16.1
140	0	0	0	0	0	0	0	0	130-140	0	25.80	100,16.1
150	0	0	0	0	0	0	0	0	140-150	0	25.80	100,16.1
160	0	0	0	0	0	0	0	0	150-160	0	25.80	100,16.1
170	0	0	0	0	0	0	0	0	160-170	0	25.80	100,16.1
180	0	0	0	0	0	0	0	0	170-180	0	25.80	100,16.1
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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LUMINANCE LIMITATION CURVES

Test:U:23.998V I:0.0966A P:2.3182W PF:1.0000 Freq:49.99Hz Lamp Flux:160.22x1 lm		
NAME: 2417.206F	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2410191265
MFR.: RISE	SUR.: 0.000132665m2	Shielding Angle:



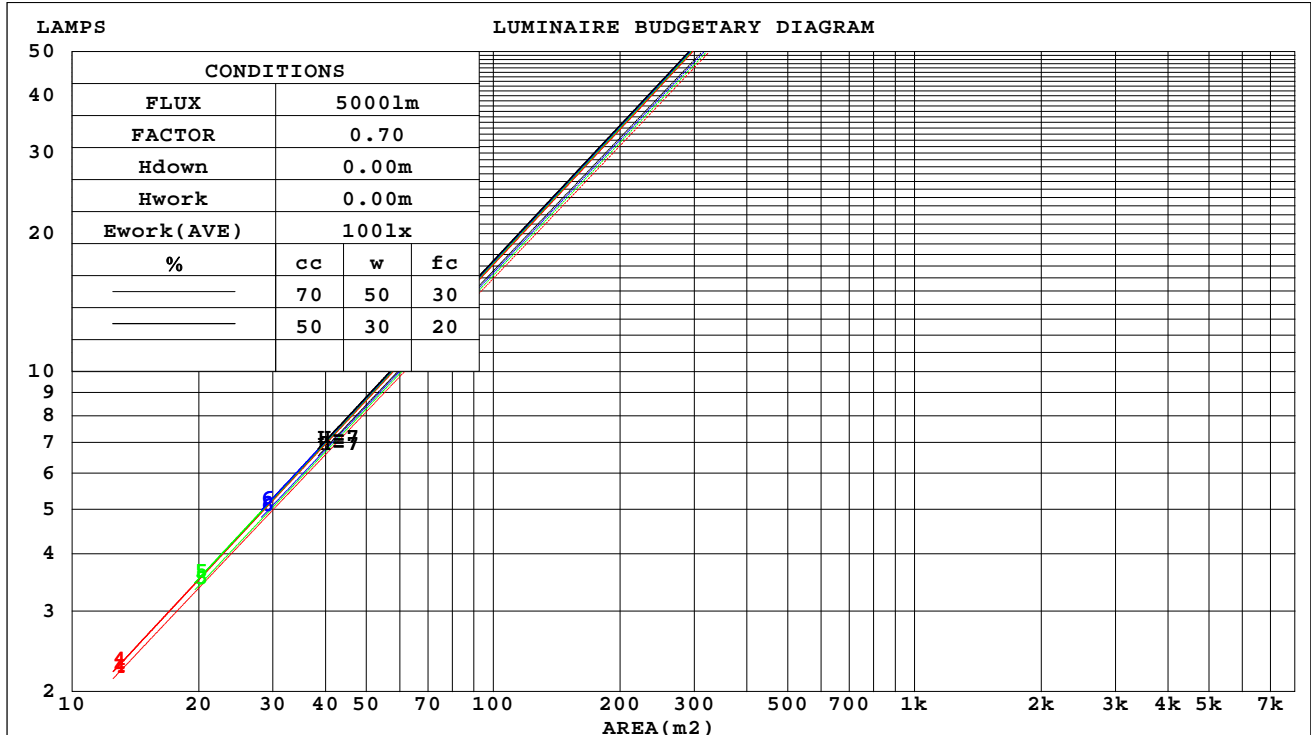
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.: 3000K	DIM.:	SERIAL No.: 2410191265
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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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	.015	.009	.003	.014	.008	.003	.012	.007	.002	.010	.006	.002	.009	.005	.002		
2.0	.013	.007	.002	.012	.007	.002	.011	.006	.002	.009	.005	.002	.008	.005	.001		
3.0	.012	.006	.002	.011	.006	.002	.010	.005	.002	.009	.005	.001	.008	.004	.001		
4.0	.011	.006	.002	.010	.005	.002	.009	.005	.001	.008	.004	.001	.007	.004	.001		
5.0	.010	.005	.001	.009	.005	.001	.008	.004	.001	.007	.004	.001	.007	.004	.001		
6.0	.009	.004	.001	.008	.004	.001	.008	.004	.001	.007	.004	.001	.006	.003	.001		
7.0	.008	.004	.001	.008	.004	.001	.007	.004	.001	.007	.003	.001	.006	.003	.001		
8.0	.007	.004	.001	.007	.004	.001	.007	.003	.001	.006	.003	.001	.006	.003	.001		
9.0	.007	.003	.001	.007	.003	.001	.006	.003	.001	.006	.003	.001	.005	.003	.001		
10.0	.006	.003	.001	.006	.003	.001	.006	.003	.001	.005	.003	.001	.005	.003	.001		

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	.031	.031	.031	.026	.026	.026	.018	.018	.018	.010	.010	.010	.003	.003	.003	
1.0	.027	.025	.024	.023	.022	.021	.016	.015	.015	.009	.009	.008	.003	.003	.003	
2.0	.023	.021	.020	.020	.018	.017	.014	.013	.012	.008	.007	.007	.003	.002	.002	
3.0	.020	.018	.016	.017	.016	.014	.012	.011	.010	.007	.006	.006	.002	.002	.002	
4.0	.018	.016	.014	.015	.013	.012	.011	.009	.008	.006	.006	.005	.002	.002	.002	
5.0	.016	.013	.012	.014	.012	.010	.009	.008	.007	.005	.005	.004	.002	.002	.001	
6.0	.014	.012	.010	.012	.010	.009	.008	.007	.006	.005	.004	.004	.002	.001	.001	
7.0	.013	.010	.009	.011	.009	.008	.008	.006	.005	.004	.004	.003	.001	.001	.001	
8.0	.011	.009	.007	.010	.008	.007	.007	.006	.005	.004	.003	.003	.001	.001	.001	
9.0	.010	.008	.007	.009	.007	.006	.006	.005	.004	.004	.003	.002	.001	.001	.001	
10.0	.009	.007	.006	.008	.006	.005	.006	.004	.004	.003	.003	.002	.001	.001	.001	

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UGR(Unified Glare Rating) Table

Test:U:23.998V I:0.0966A P:2.3182W PF:1.0000 Freq:49.99Hz Lamp Flux:160.22x1 lm										
NAME: 2417.206F					TYPE:			WEIGHT:		
SPEC.: 3000K					DIM.:			SERIAL No.: 2410191265		
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	-11.7	-11.3	-11.5	-11.2	-11.1	-11.0	-10.6	-10.8	-10.5	-10.4
3H	-11.4	-11.1	-11.2	-10.9	-10.8	-11.1	-10.7	-10.8	-10.6	-10.4
4H	-11.5	-11.2	-11.3	-11.0	-10.8	-11.1	-10.8	-10.9	-10.6	-10.4
6H	-11.6	-11.3	-11.3	-11.1	-10.8	-11.2	-10.9	-11.0	-10.7	-10.5
8H	-11.6	-11.3	-11.4	-11.1	-10.8	-11.3	-10.9	-11.0	-10.7	-10.5
12H	-11.7	-11.4	-11.4	-11.1	-10.9	-11.3	-11.0	-11.0	-10.7	-10.5
4H 2H	-11.6	-11.2	-11.3	-11.0	-10.8	-10.9	-10.6	-10.7	-10.4	-10.2
3H	-11.4	-11.1	-11.1	-10.8	-10.6	-11.1	-10.8	-10.8	-10.5	-10.3
4H	-11.5	-11.2	-11.2	-10.9	-10.6	-11.2	-10.9	-10.8	-10.6	-10.3
6H	-11.6	-11.3	-11.2	-11.0	-10.7	-11.3	-11.0	-10.9	-10.7	-10.4
8H	-11.7	-11.4	-11.3	-11.1	-10.7	-11.3	-11.1	-11.0	-10.8	-10.4
12H	-11.7	-11.5	-11.3	-11.1	-10.7	-11.4	-11.2	-11.0	-10.8	-10.4
8H 4H	-11.7	-11.4	-11.3	-11.1	-10.7	-11.3	-11.1	-11.0	-10.7	-10.4
6H	-11.8	-11.6	-11.4	-11.2	-10.8	-11.5	-11.3	-11.0	-10.9	-10.5
8H	-11.8	-11.7	-11.4	-11.3	-10.8	-11.5	-11.3	-11.1	-10.9	-10.5
12H	-11.9	-11.8	-11.5	-11.3	-10.9	-11.6	-11.4	-11.1	-11.0	-10.5
12H 4H	-11.7	-11.5	-11.3	-11.1	-10.7	-11.4	-11.2	-11.0	-10.8	-10.4
6H	-11.8	-11.7	-11.4	-11.3	-10.8	-11.5	-11.3	-11.1	-10.9	-10.5
8H	-11.9	-11.8	-11.5	-11.3	-10.9	-11.6	-11.4	-11.1	-11.0	-10.5
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 3.2 / - 7.2					+ 2.3 / - 2.9				
1.5H	+ 3.3 / - 4.3					+ 3.3 / - 3.8				
2.0H	+ 4.6 / - 8.2					+ 3.2 / - 3.1				

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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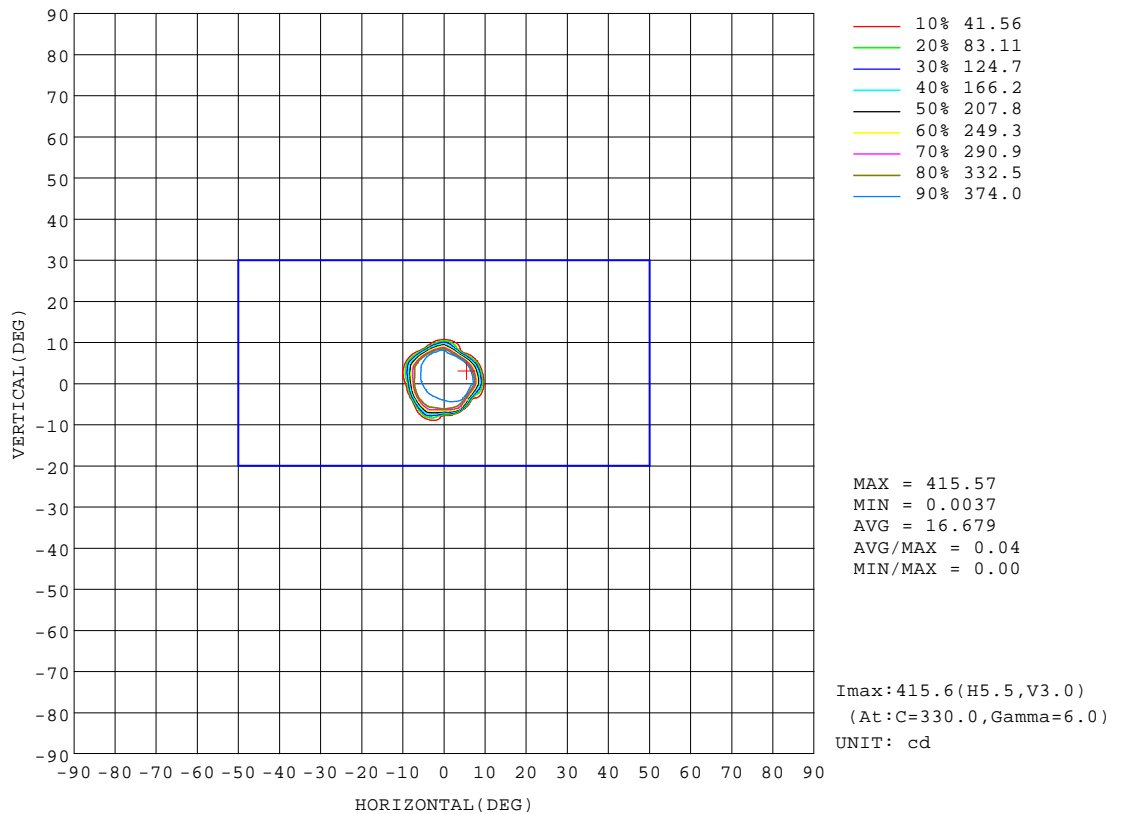
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	15	14	13	15	14	13	15	14	13	13
0.80	16	15	15	16	15	14	16	15	14	14
1.00	16	16	15	16	16	15	16	16	15	14
1.25	17	16	16	17	16	16	17	16	16	15
1.50	17	17	16	17	17	16	17	16	16	15
2.00	18	17	17	17	17	17	17	17	16	16
2.50	18	17	17	18	17	17	17	17	17	16
3.00	18	18	17	18	17	17	17	17	17	16
4.00	18	18	18	18	18	18	18	17	17	16
5.00	19	18	18	18	18	18	18	17	17	16
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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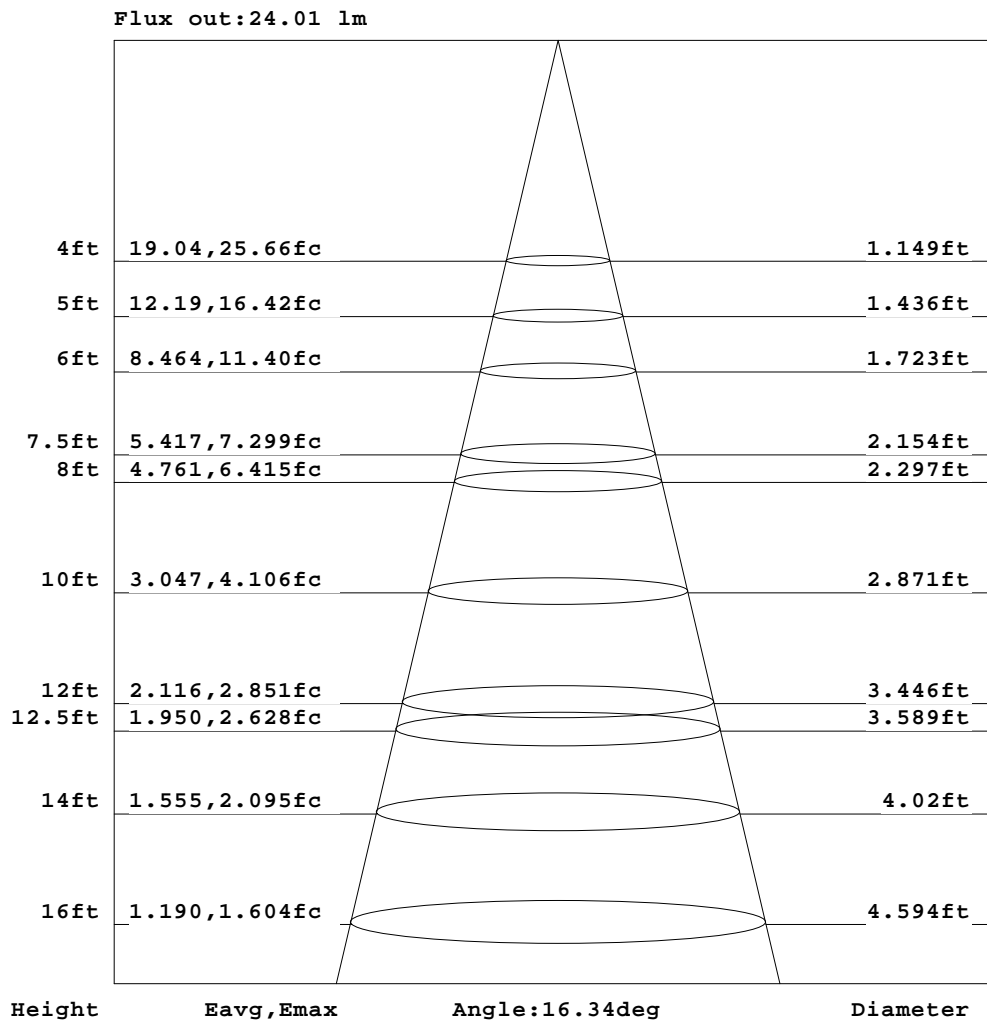


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AAI Figure

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

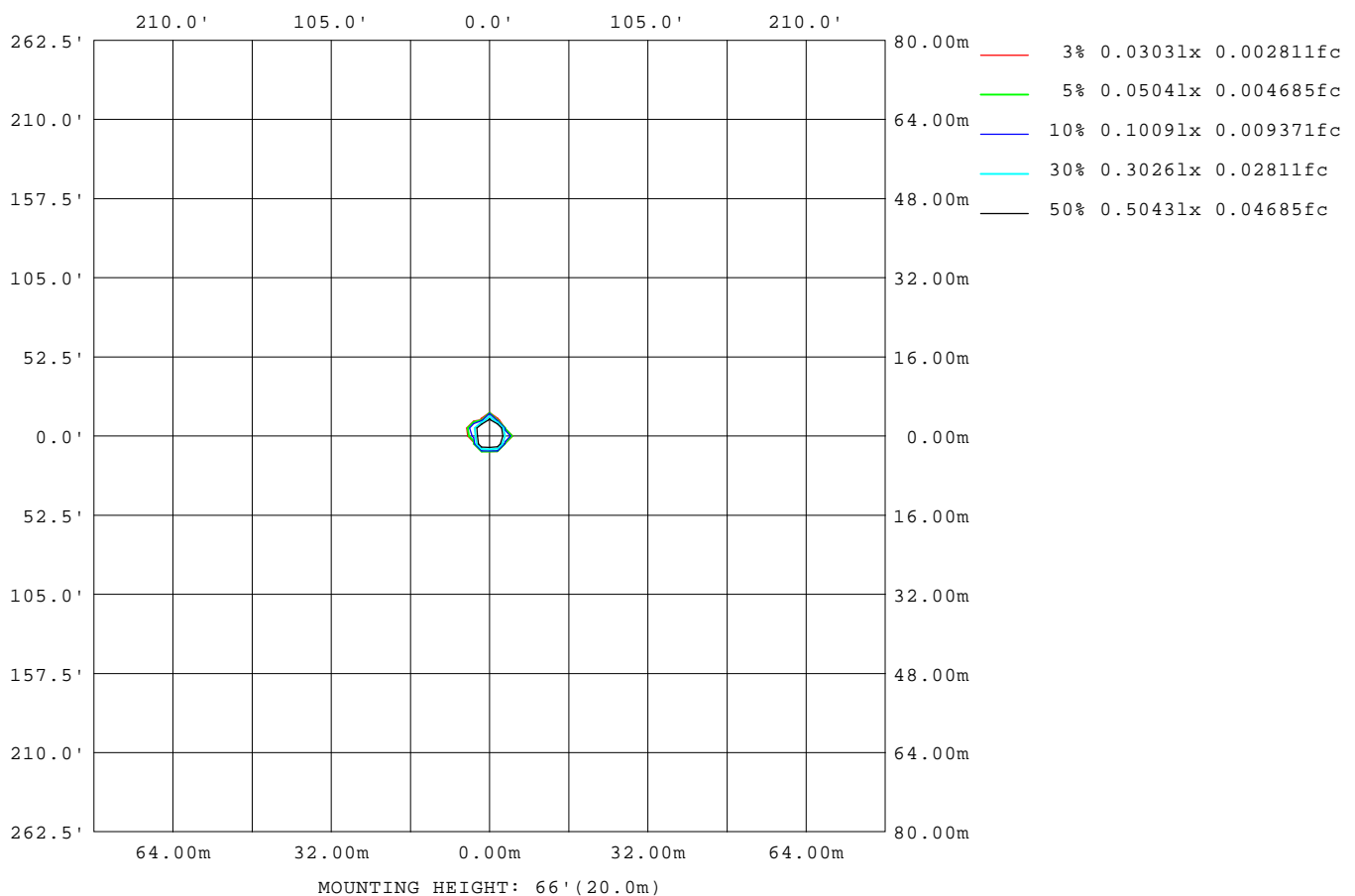
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ISOLUX DIAGRAM

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Humidity: 65.0%
Test Distance: 3.160m [K=1.0000]
Remarks: LAMP: CLU7L3-0104C4-303H5X3 Ra:90
LENS: 18R
NOT DRIVER: DC 24V +converter
30minutes warm-up

LED Avg.L Report

Test:U:23.998V I:0.0966A P:2.3182W PF:1.0000 Freq:49.99Hz Lamp Flux:160.22x1 lm		
NAME: 2417.206F	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2410191265
MFR.: RISE	SUR.: 0.000132665m2	Shielding Angle:

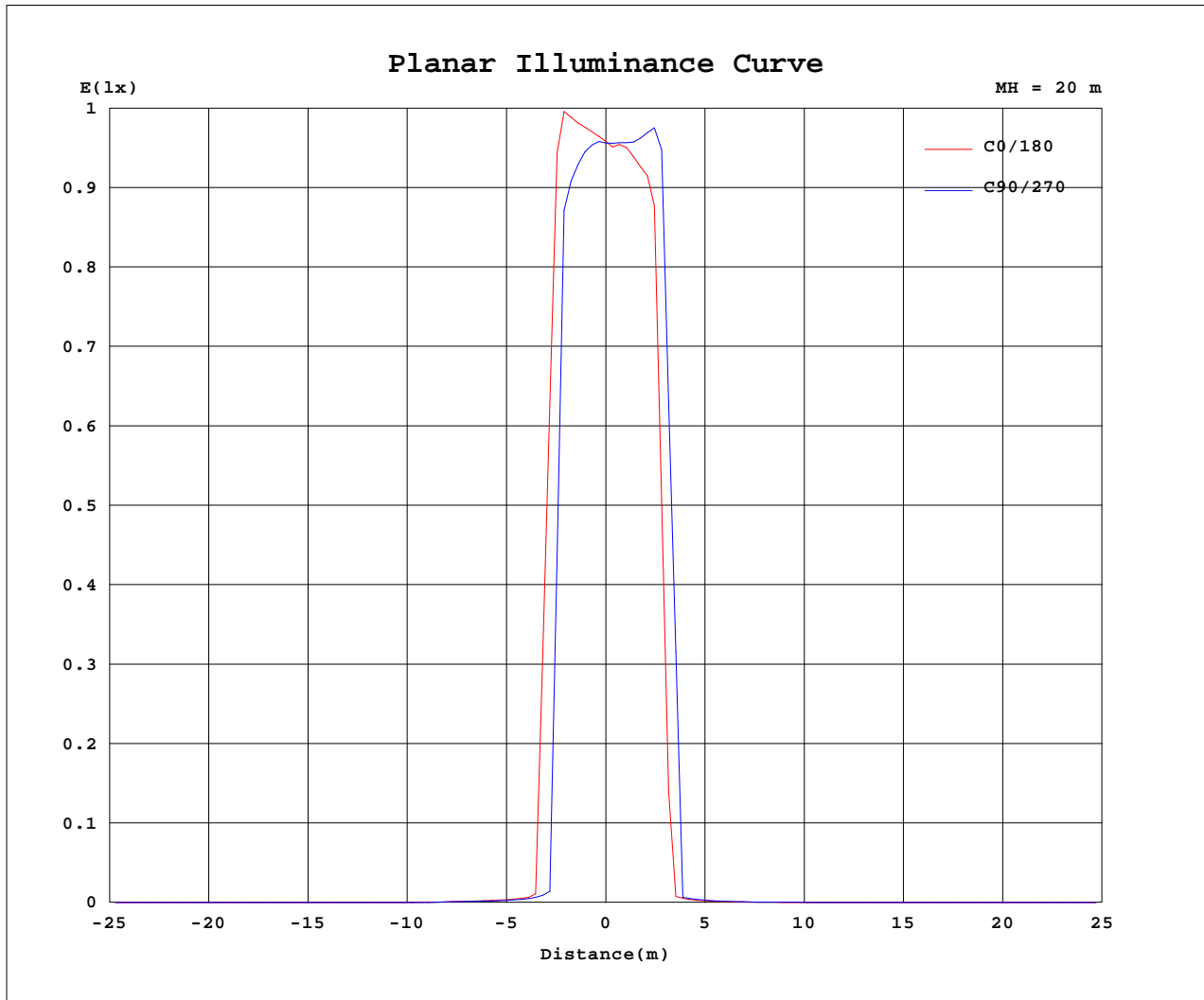
AvgL	cd/m2
L_0~180(65)av	50
L_0~180(75)av	0
L_0~180(85)av	0
L_90~270(65)av	50
L_90~270(75)av	0
L_90~270(85)av	0
L_45(65)av	36
L_45(75)av	0
L_45(85)av	0

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:18R
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: 18R
 NOT DRIVER: DC 24V +converter
 30minutes warm-up



LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:23.998V I:0.0966A P:2.3182W PF:1.0000 Freq:49.99Hz Lamp Flux:160.22x1 lm		
NAME: 2417.206F	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2410191265
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	384	384	384	384	384	384	384	384	384	384	384	384						
5	400	390	378	369	365	367	375	381	386	391	399	403						
10	4.75	3.18	2.83	2.85	4.55	3.33	3.21	121	3.90	133	3.95	5.53						
15	1.44	1.27	1.17	1.15	1.14	1.16	0.83	0.87	1.01	1.14	1.25	1.23						
20	0.77	0.74	0.72	0.70	0.69	0.69	0.35	0.37	0.42	0.46	0.46	0.40						
25	0.22	0.18	0.14	0.16	0.15	0.15	0.15	0.17	0.19	0.21	0.23	0.23						
30	0.07	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07						
35	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.03						
40	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02						
45	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01						
50	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01						
55	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.01						
60	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
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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