

Luminaire Photograph



Light Output Ratio:	52.6%	
Luminaire Power:	6.369 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.55	fine grid method.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: zoe
Test Date: 2024-10-22

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: CMA1306-0000-000F0U0A30G Ra:90
LENS: 60R
NO DRIVER: DC 24V
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

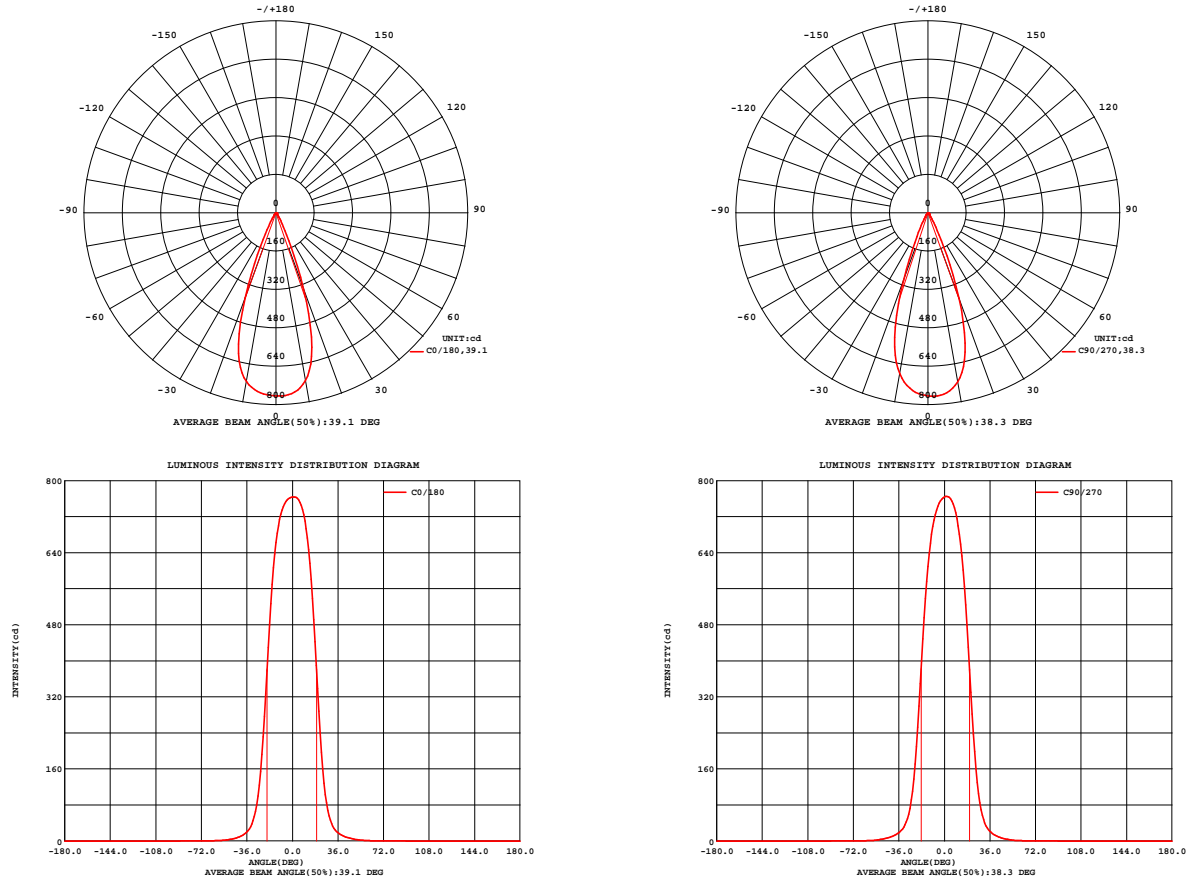


Fig. C0/C180

Fig. C90/C270

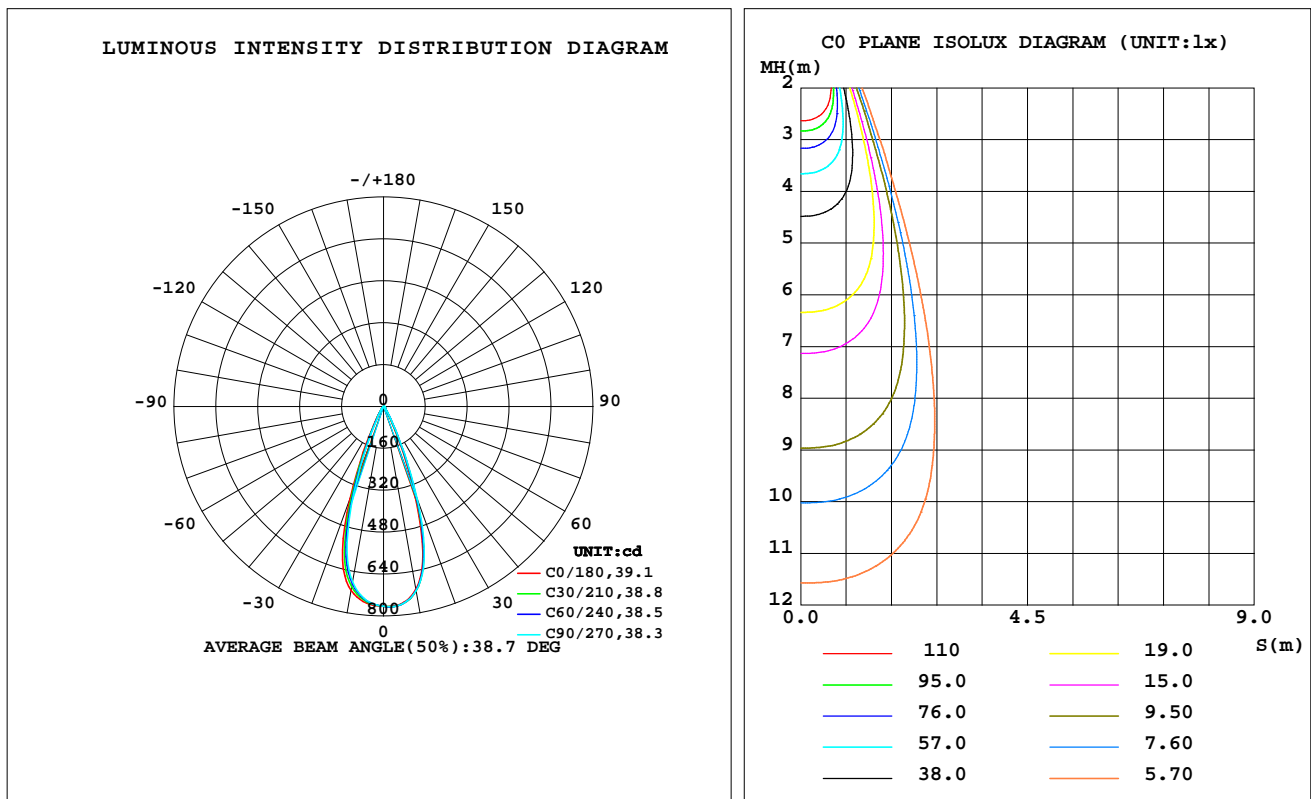
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LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:23.998V I:0.2654A P:6.3691W PF:1.0000 Freq:59.98Hz Lamp Flux:603.06x1 lm		
NAME: 2417.205Z-D	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2410221287
MFR.: RISE	SUR.: 0.00061544m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 49.77 lm/W			
MODEL	CREE	I _{max} (cd)	765.3	S/MH(C0/180)	0.59
NOMINAL POWER(W)	7	LOR(%)	52.6	S/MH(C90/270)	0.55
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	317.01	UP,DN(C0-180)	0.0,27.3
NOMINAL FLUX(lm)	603.06	CIE CLASS	DIRECT	UP,DN(C180-360)	0.0,25.2
LAMPS INSIDE	1	up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	24	down(%)	52.6	CIBSE SHR MAX	0.55



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ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

	C0	C45	C90	C135	C180	C225	C270	C315		zone	total	%lum,lamp
10	710.2	715.3	715.2	717.8	713.5	693.4	681.0	693.2	0- 10	70.41	70.41	22.2,11.7
20	338.7	364.0	380.0	387.3	377.3	332.6	299.5	309.0	10- 20	153.6	224.0	70.7,37.1
30	46.22	52.75	57.28	56.37	54.37	47.34	41.97	41.91	20- 30	69.84	293.8	92.7,48.7
40	11.42	12.36	13.07	13.39	11.55	11.62	11.74	12.11	30- 40	15.51	309.4	97.6,51.3
50	3.525	3.485	3.698	3.595	3.261	3.505	3.577	3.635	40- 50	5.415	314.8	99.3,52.2
60	0.8791	0.8280	0.8547	0.8490	0.8255	0.8557	0.8789	0.9005	50- 60	1.619	316.4	99.8,52.5
70	0.2272	0.2187	0.2236	0.2173	0.2112	0.2141	0.2281	0.2323	60- 70	0.4683	316.9	100,52.5
80	0.0513	0.0469	0.0517	0.0476	0.0471	0.0472	0.0524	0.0484	70- 80	0.1232	317.0	100,52.6
90	0	0	0	0	0	0	0	0	80- 90	0.0208	317.0	100,52.6
100	0	0	0	0	0	0	0	0	90-100	0	317.0	100,52.6
110	0	0	0	0	0	0	0	0	100-110	0	317.0	100,52.6
120	0	0	0	0	0	0	0	0	110-120	0	317.0	100,52.6
130	0	0	0	0	0	0	0	0	120-130	0	317.0	100,52.6
140	0	0	0	0	0	0	0	0	130-140	0	317.0	100,52.6
150	0	0	0	0	0	0	0	0	140-150	0	317.0	100,52.6
160	0	0	0	0	0	0	0	0	150-160	0	317.0	100,52.6
170	0	0	0	0	0	0	0	0	160-170	0	317.0	100,52.6
180	0	0	0	0	0	0	0	0	170-180	0	317.0	100,52.6
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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LUMINANCE LIMITATION CURVES

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Lamp Flux:603.06x1 lm

NAME: 2417.205Z-D

TYPE:

WEIGHT:

SPEC.: 3000K

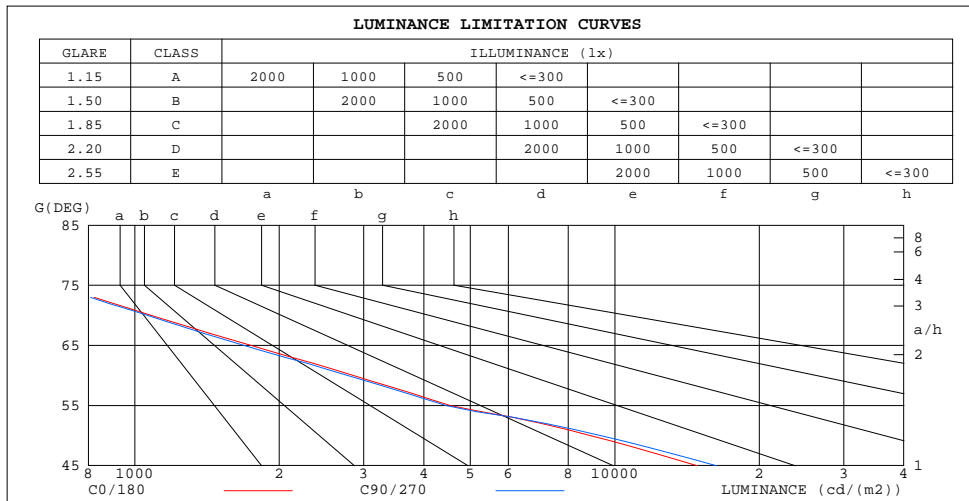
DIM.:

SERIAL No.: 2410221287

MFR.: RISE

SUR.: 0.00061544m2

Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	348	347
80	480	484
75	710	717
70	1079	1062
65	1747	1688
60	2856	2778
55	4547	4452
50	8910	9349
45	14837	16284

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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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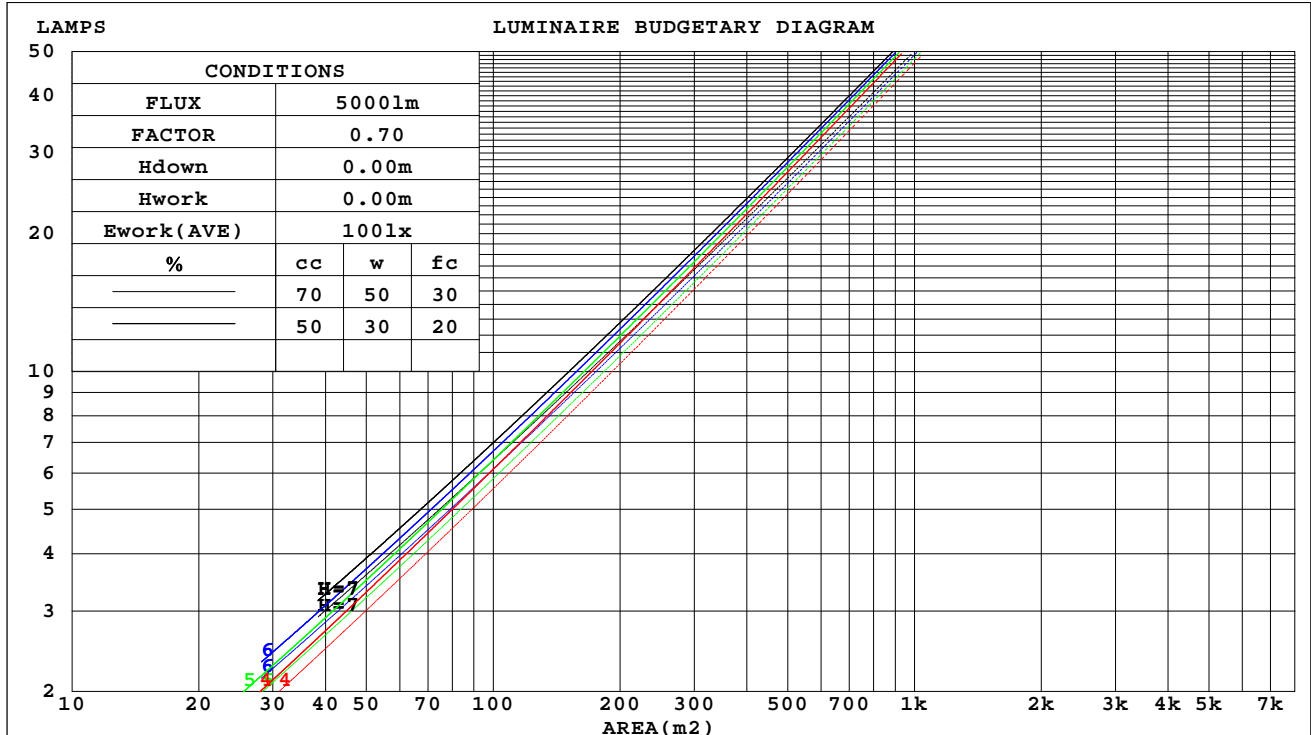
SERIAL No.: 2410221287

MFR.: RISE

SUR.: 0.00061544m2

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.: 2410221287
MFR.: RISE	SUR.: 0.00061544m2	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	.078	.044	.014	.075	.043	.014	.068	.039	.012	.062	.036	.011	.056	.033	.011		
2.0	.073	.040	.012	.070	.039	.012	.065	.036	.011	.060	.034	.010	.055	.031	.010		
3.0	.069	.037	.011	.066	.035	.011	.062	.033	.010	.057	.032	.010	.054	.030	.009		
4.0	.065	.034	.010	.063	.033	.010	.059	.031	.009	.055	.030	.009	.052	.028	.009		
5.0	.061	.031	.009	.060	.031	.009	.056	.029	.009	.053	.028	.008	.050	.027	.008		
6.0	.058	.029	.008	.057	.029	.008	.054	.028	.008	.051	.027	.008	.049	.026	.008		
7.0	.056	.028	.008	.054	.027	.008	.052	.026	.008	.049	.025	.007	.047	.025	.007		
8.0	.053	.026	.007	.052	.026	.007	.050	.025	.007	.048	.024	.007	.046	.024	.007		
9.0	.051	.025	.007	.050	.024	.007	.048	.024	.007	.046	.023	.007	.044	.023	.007		
10.0	.049	.024	.007	.048	.023	.006	.046	.023	.006	.045	.022	.006	.043	.022	.006		

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	.100	.100	.100	.086	.086	.086	.058	.058	.058	.034	.034	.034	.011	.011	.011	
1.0	.089	.083	.077	.076	.071	.067	.052	.049	.046	.030	.028	.027	.010	.009	.009	
2.0	.080	.070	.061	.068	.060	.053	.047	.042	.037	.027	.024	.022	.009	.008	.007	
3.0	.072	.060	.049	.062	.051	.043	.043	.036	.030	.025	.021	.018	.008	.007	.006	
4.0	.066	.052	.041	.057	.045	.035	.039	.031	.025	.023	.018	.015	.007	.006	.005	
5.0	.061	.045	.034	.052	.039	.029	.036	.027	.021	.021	.016	.012	.007	.005	.004	
6.0	.057	.040	.028	.049	.035	.025	.034	.024	.017	.019	.014	.010	.006	.005	.003	
7.0	.053	.036	.024	.045	.031	.021	.031	.022	.015	.018	.013	.009	.006	.004	.003	
8.0	.049	.032	.021	.043	.028	.018	.029	.020	.013	.017	.012	.008	.006	.004	.003	
9.0	.047	.030	.018	.040	.026	.016	.028	.018	.011	.016	.011	.007	.005	.003	.002	
10.0	.044	.027	.016	.038	.024	.014	.026	.017	.010	.015	.010	.006	.005	.003	.002	

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NO DRIVER:DC 24V
30minutes warm-up

UGR(Unified Glare Rating) Table

Test:U:23.998V I:0.2654A P:6.3691W PF:1.0000 Freq:59.98Hz Lamp Flux:603.06x1 lm										
NAME: 2417.205Z-D					TYPE:			WEIGHT:		
SPEC.: 3000K					DIM.:			SERIAL No.: 2410221287		
MFR.: RISE					SUR.: 0.00061544m2			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	14.3	15.0	14.5	15.1	15.3	14.8	15.6	15.0	15.7	15.9
3H	14.1	14.8	14.4	15.0	15.2	14.7	15.4	14.9	15.6	15.8
4H	14.1	14.7	14.3	14.9	15.1	14.6	15.3	14.9	15.5	15.7
6H	14.0	14.6	14.3	14.8	15.1	14.5	15.1	14.8	15.4	15.6
8H	13.9	14.5	14.2	14.8	15.0	14.5	15.1	14.8	15.3	15.6
12H	13.9	14.5	14.2	14.7	15.0	14.4	15.0	14.8	15.3	15.5
4H 2H	14.1	14.7	14.3	14.9	15.1	14.6	15.3	14.9	15.5	15.7
3H	13.9	14.5	14.2	14.8	15.0	14.5	15.0	14.8	15.3	15.6
4H	13.9	14.4	14.2	14.7	15.0	14.4	14.9	14.7	15.2	15.5
6H	13.8	14.2	14.1	14.5	14.9	14.3	14.8	14.7	15.1	15.4
8H	13.7	14.1	14.1	14.5	14.8	14.2	14.7	14.6	15.0	15.4
12H	13.7	14.0	14.1	14.4	14.8	14.2	14.6	14.6	15.0	15.3
8H 4H	13.7	14.1	14.1	14.5	14.8	14.2	14.7	14.6	15.0	15.4
6H	13.6	14.0	14.0	14.3	14.8	14.1	14.5	14.6	14.9	15.3
8H	13.5	13.9	14.0	14.3	14.7	14.1	14.4	14.5	14.8	15.2
12H	13.5	13.8	14.0	14.2	14.7	14.0	14.3	14.5	14.7	15.2
12H 4H	13.6	14.0	14.1	14.4	14.8	14.2	14.6	14.6	14.9	15.3
6H	13.5	13.9	14.0	14.3	14.7	14.1	14.4	14.5	14.8	15.2
8H	13.5	13.8	14.0	14.2	14.7	14.0	14.3	14.5	14.7	15.2
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 2.5 / - 7.3					+ 3.1 / - 7.9				
1.5H	+ 3.9 / - 5.9					+ 4.6 / - 6.4				
2.0H	+ 5.1 / - 6.3					+ 5.5 / - 6.4				

CIE Pub.117, 603.1 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -1.8)
Area: 0.00061544 m2

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UTILIZATION FACTORS TABLE

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MFR.: RISE	SUR.: 0.00061544m2	Shielding Angle:

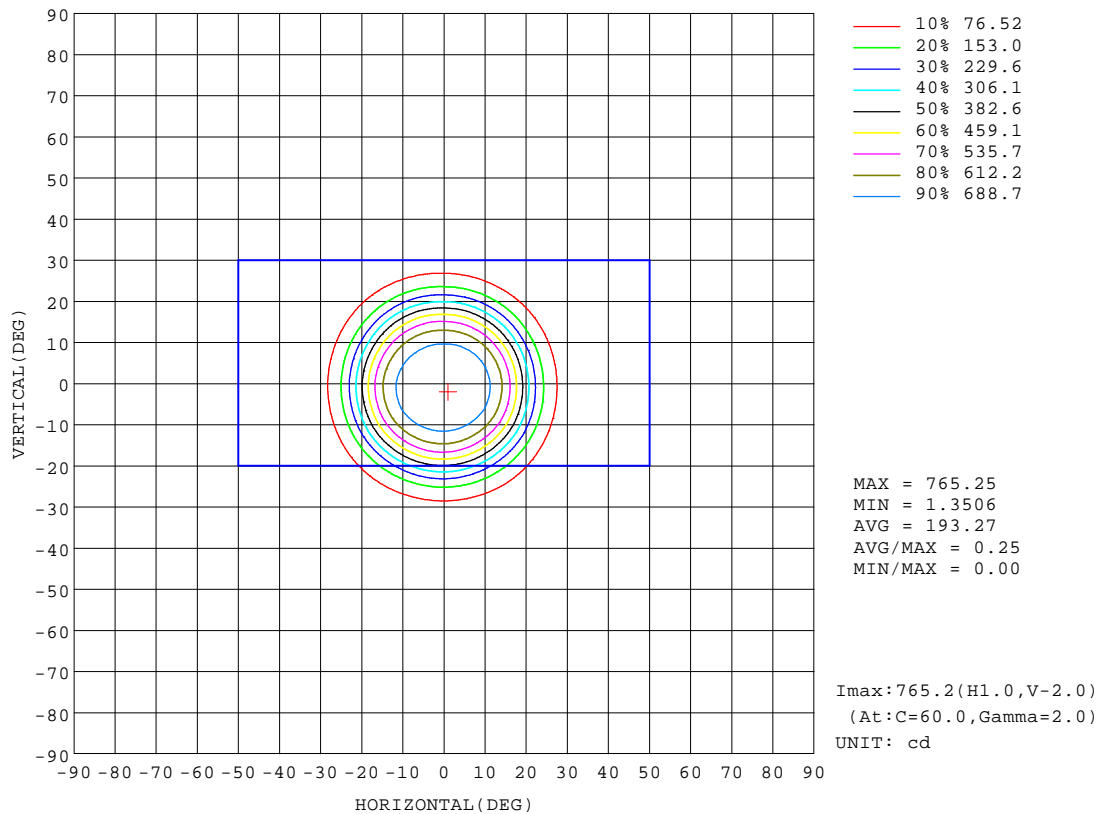
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	47	44	42	47	44	42	47	44	42	41
0.80	51	48	46	51	48	46	50	48	46	44
1.00	53	50	49	53	50	49	52	50	48	46
1.25	55	53	51	55	52	51	54	52	50	48
1.50	56	54	52	56	54	52	55	53	52	49
2.00	58	56	54	57	55	54	55	54	53	50
2.50	58	57	55	58	56	55	56	55	54	51
3.00	59	57	56	58	57	56	56	55	54	51
4.00	60	59	58	59	58	57	57	56	56	52
5.00	61	60	59	60	59	58	58	57	56	52
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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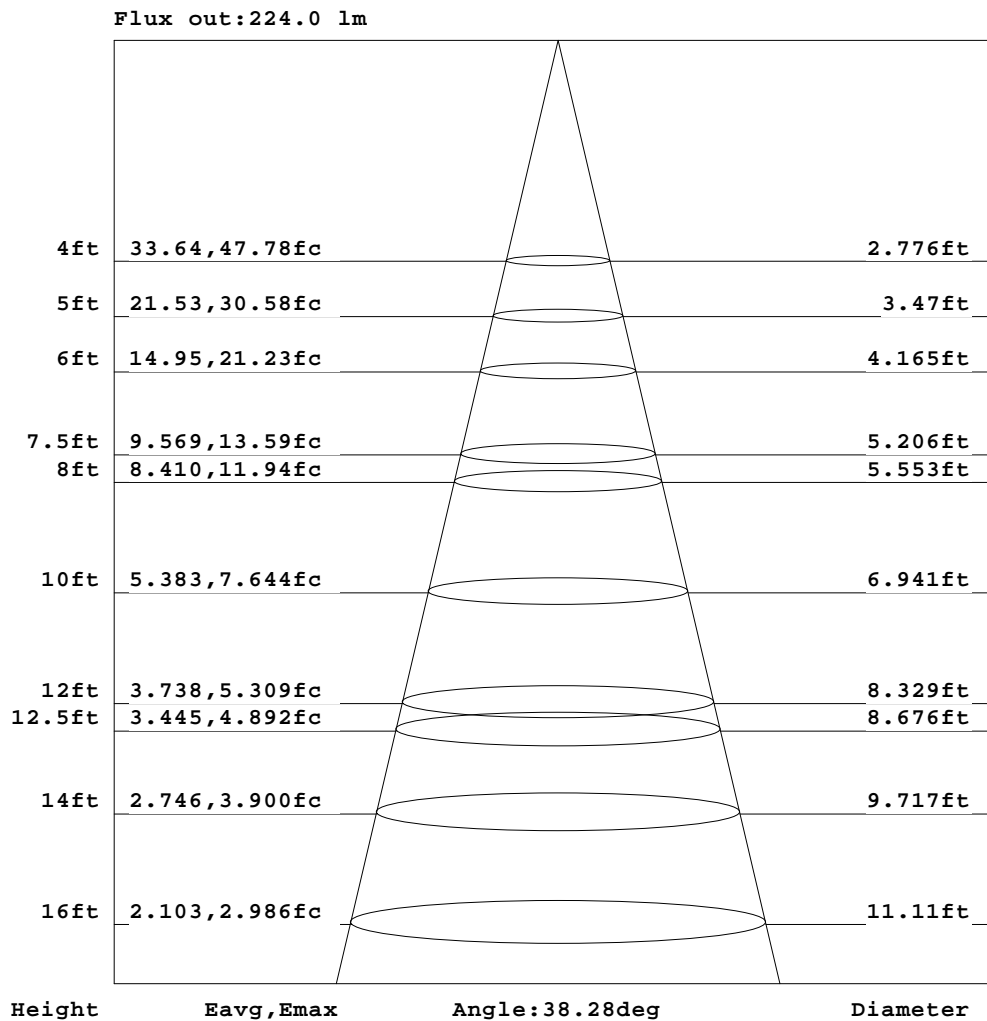


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AAI Figure

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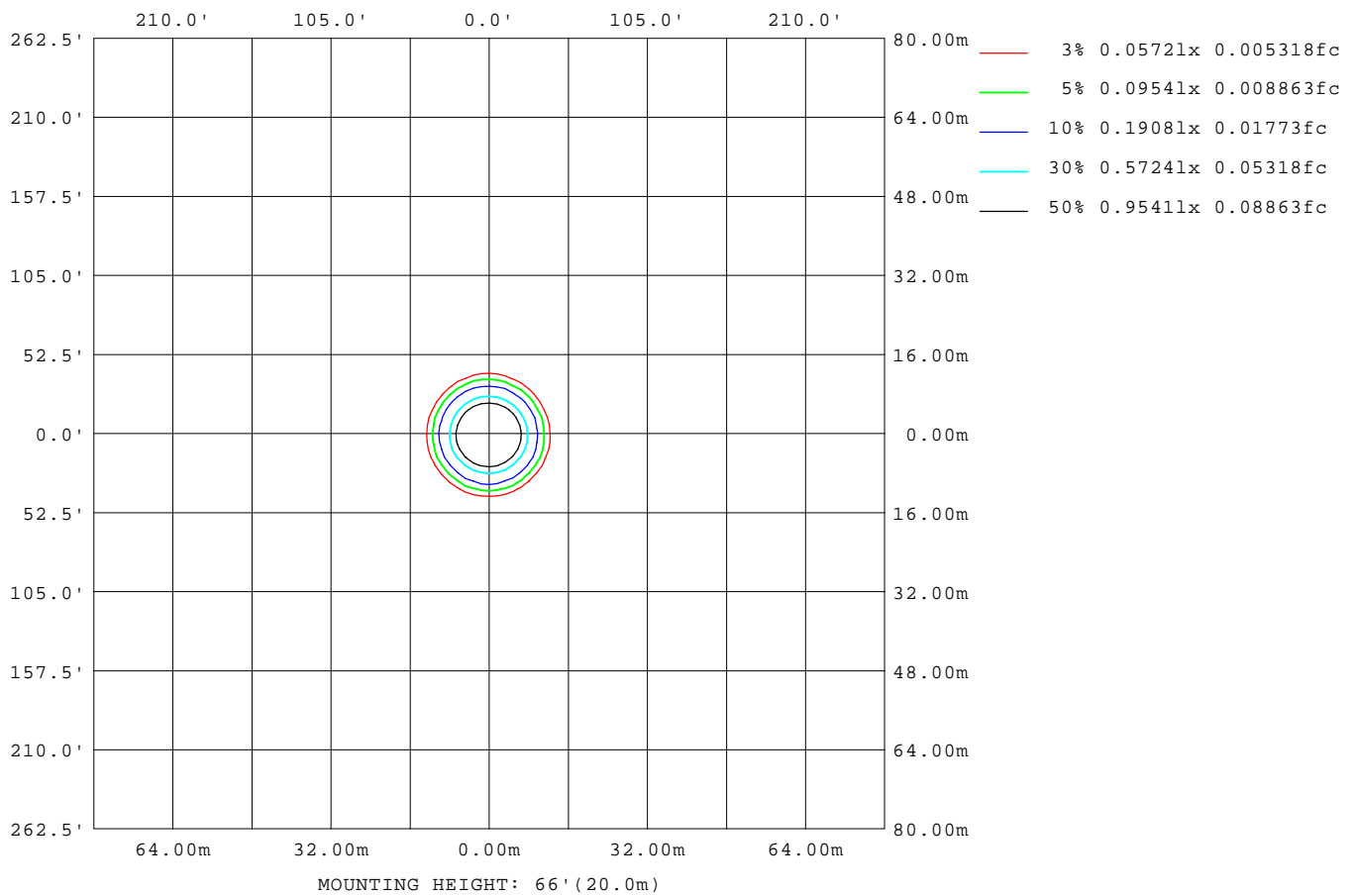
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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30minutes warm-up

LED Avg.L Report

Test:U:23.998V I:0.2654A P:6.3691W PF:1.0000 Freq:59.98Hz Lamp Flux:603.06x1 lm		
NAME: 2417.205Z-D	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2410221287
MFR.: RISE	SUR.: 0.00061544m2	Shielding Angle:

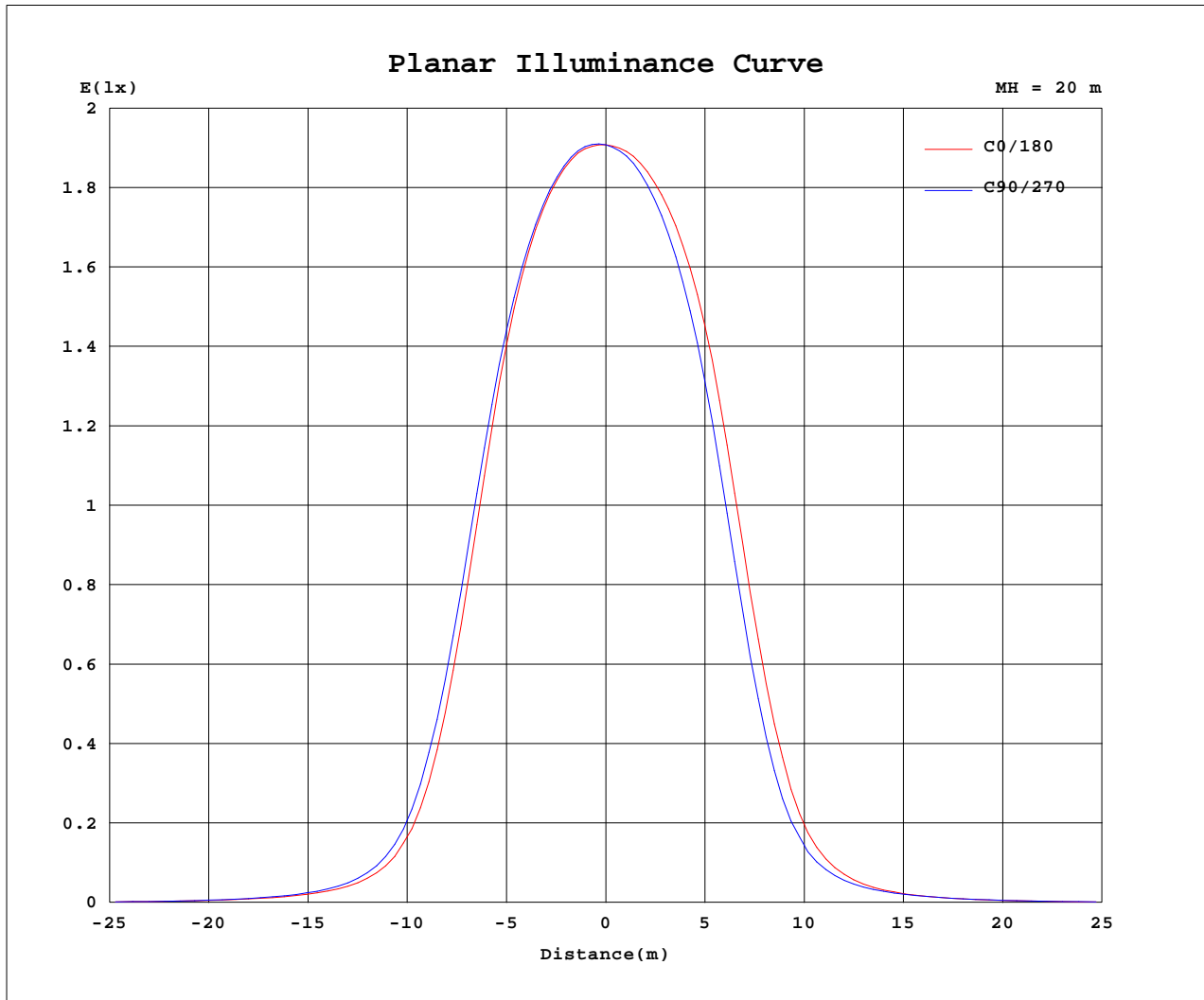
AvgL	cd/m2
L_0~180(65)av	1684
L_0~180(75)av	678
L_0~180(85)av	330
L_90~270(65)av	1727
L_90~270(75)av	707
L_90~270(85)av	356
L_45(65)av	1704
L_45(75)av	675
L_45(85)av	281

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2024-10-22

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:CMA1306-0000-000F0U0A30G Ra:90
LENS:60R
NO DRIVER:DC 24V
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: 2024-10-22

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: CMA1306-0000-000F0U0A30G Ra:90
 LENS: 60R
 NO DRIVER: DC 24V
 30minutes warm-up



LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:23.998V I:0.2654A P:6.3691W PF:1.0000 Freq:59.98Hz Lamp Flux:603.06x1 lm		
NAME: 2417.205Z-D	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2410221287
MFR.: RISE	SUR.: 0.00061544m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	763	763	763	763	763	763	763	763	763	763	763	763						
5	757	760	760	759	758	757	753	748	745	743	747	752						
10	710	716	714	715	717	719	714	699	687	681	688	699						
15	581	594	595	602	608	615	607	579	555	538	544	560						
20	339	360	368	380	385	390	377	345	320	300	302	316						
25	128	144	152	160	160	161	154	135	122	110	110	116						
30	46.2	50.9	54.6	57.3	56.4	56.4	54.4	49.2	45.5	42.0	41.3	42.5						
35	21.2	23.0	23.8	25.2	25.7	25.0	23.1	22.1	21.2	20.8	21.3	20.8						
40	11.4	12.3	12.4	13.1	13.9	12.9	11.6	11.7	11.5	11.7	12.5	11.7						
45	6.46	6.69	6.75	7.09	7.47	6.76	6.20	6.42	6.53	6.66	6.98	6.65						
50	3.53	3.46	3.51	3.70	3.74	3.45	3.26	3.43	3.58	3.58	3.68	3.59						
55	1.61	1.55	1.54	1.57	1.58	1.56	1.53	1.56	1.57	1.58	1.61	1.64						
60	0.88	0.83	0.83	0.85	0.86	0.84	0.83	0.85	0.87	0.88	0.90	0.90						
65	0.45	0.43	0.43	0.44	0.44	0.43	0.42	0.43	0.45	0.46	0.47	0.47						
70	0.23	0.22	0.22	0.22	0.22	0.21	0.21	0.21	0.21	0.23	0.23	0.23						
75	0.11	0.11	0.11	0.11	0.11	0.11	0.10	0.10	0.10	0.11	0.11	0.11						
80	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05						
85	0.02	0.02	0.02	0.02	0.01	0.02	0.02	0.01	0.02	0.02	0.02	0.01						
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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