

Luminaire Photograph



Light Output Ratio:	71.3%	
Luminaire Power:	6.499 W	
SHR Nominal:	0.75	Calculated using the TM5
SHR Maximum:	0.85	fine grid method.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: zoe
Test Date: 2024-10-11

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: HK 50R
NO DRIVER: DC 24V
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

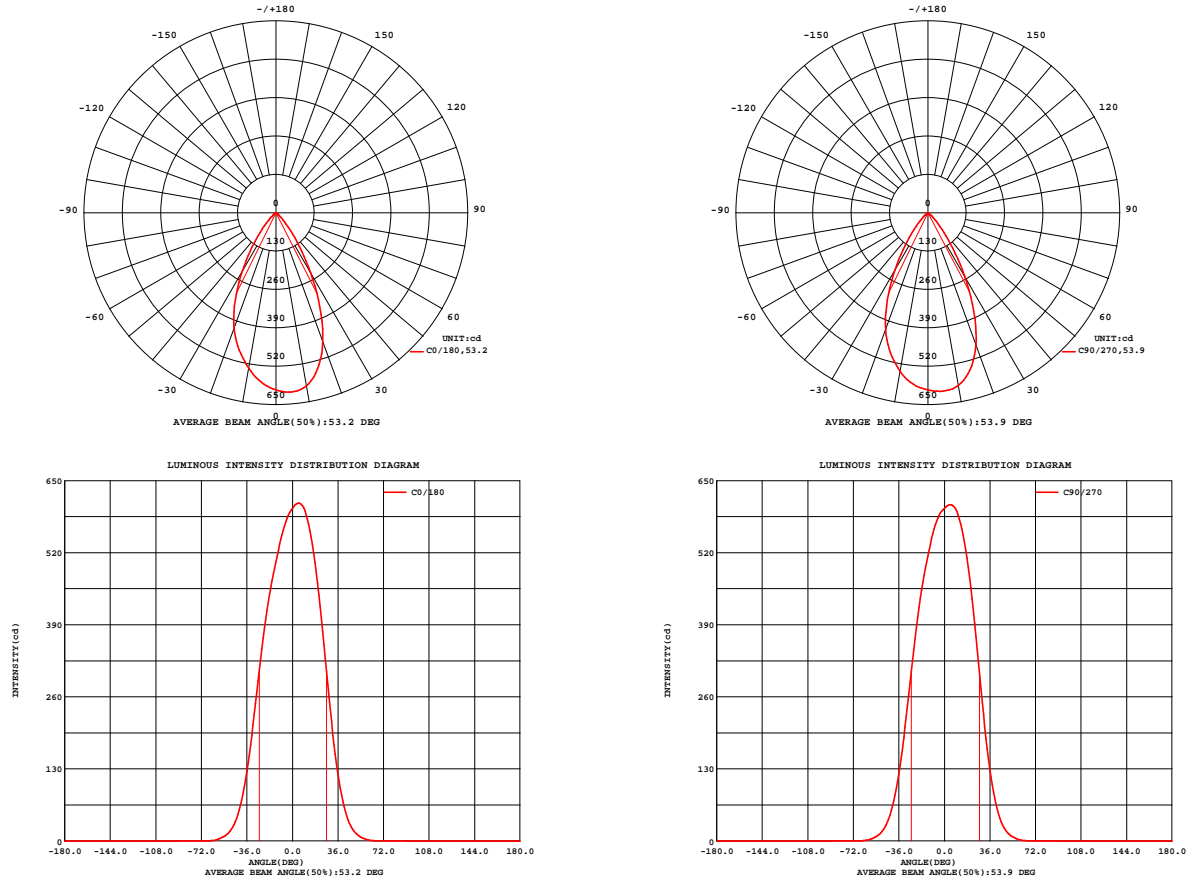


Fig. C0/C180

Fig. C90/C270

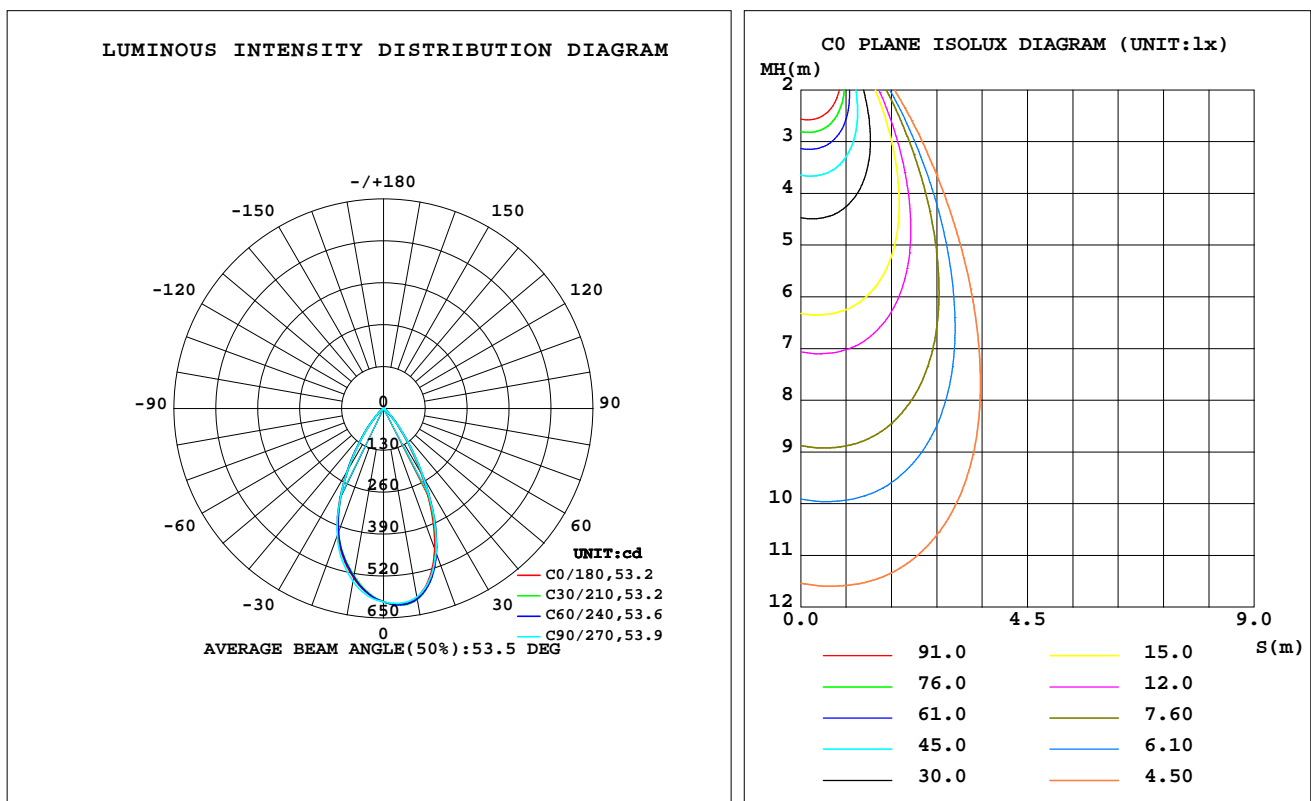
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LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:23.998V I:0.2708A P:6.4987W PF:1.0000 Freq:59.98Hz Lamp Flux:673.86x1 lm		
NAME: 2417.203	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2410111241
MFR.: RISE	SUR.: 0.000660185m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 73.89 lm/W			
MODEL	CREE	I _{max} (cd)	612.9	S/MH(C0/180)	0.82
NOMINAL POWER(W)	7	LOR(%)	71.3	S/MH(C90/270)	0.81
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	480.20	UP,DN(C0-180)	0.0,36.9
NOMINAL FLUX(lm)	673.86	CIE CLASS	DIRECT	UP,DN(C180-360)	0.0,34.4
LAMPS INSIDE	1	up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	24	down(%)	71.3	CIBSE SHR MAX	0.85



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ZONAL FLUX DIAGRAM

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	C0	C45	C90	C135	C180	C225	C270	C315		zone	total	%lum,lamp
10	595.3	601.1	594.0	566.0	534.4	529.1	545.0	573.0	0- 10	55.82	55.82	11.6,8.28
20	464.5	477.2	475.9	449.4	416.2	409.5	420.7	443.5	10- 20	143.9	199.7	41.6,29.6
30	236.6	248.6	249.9	239.8	228.9	224.7	224.4	229.3	20- 30	155.7	355.5	74,52.7
40	72.07	75.27	76.25	75.34	74.35	72.73	72.03	71.63	30- 40	89.34	444.8	92.6,66
50	14.32	14.64	14.86	15.32	15.47	14.95	14.84	14.78	40- 50	28.41	473.2	98.5,70.2
60	1.774	1.872	1.862	1.957	2.106	2.118	2.101	1.996	50- 60	6.305	479.5	99.9,71.2
70	0.1385	0.1345	0.1288	0.1255	0.1044	0.0941	0.1059	0.1301	60- 70	0.6605	480.2	100,71.3
80	0.0096	0.0044	0.0077	0.0065	0.0062	0.0043	0.0059	0.0037	70- 80	0.0348	480.2	100,71.3
90	0	0	0	0	0	0	0	0	80- 90	0.0036	480.2	100,71.3
100	0	0	0	0	0	0	0	0	90-100	0	480.2	100,71.3
110	0	0	0	0	0	0	0	0	100-110	0	480.2	100,71.3
120	0	0	0	0	0	0	0	0	110-120	0	480.2	100,71.3
130	0	0	0	0	0	0	0	0	120-130	0	480.2	100,71.3
140	0	0	0	0	0	0	0	0	130-140	0	480.2	100,71.3
150	0	0	0	0	0	0	0	0	140-150	0	480.2	100,71.3
160	0	0	0	0	0	0	0	0	150-160	0	480.2	100,71.3
170	0	0	0	0	0	0	0	0	160-170	0	480.2	100,71.3
180	0	0	0	0	0	0	0	0	170-180	0	480.2	100,71.3
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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LUMINANCE LIMITATION CURVES

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Lamp Flux:673.86x1 lm

NAME: 2417.203

TYPE:

WEIGHT:

SPEC.: 3000K

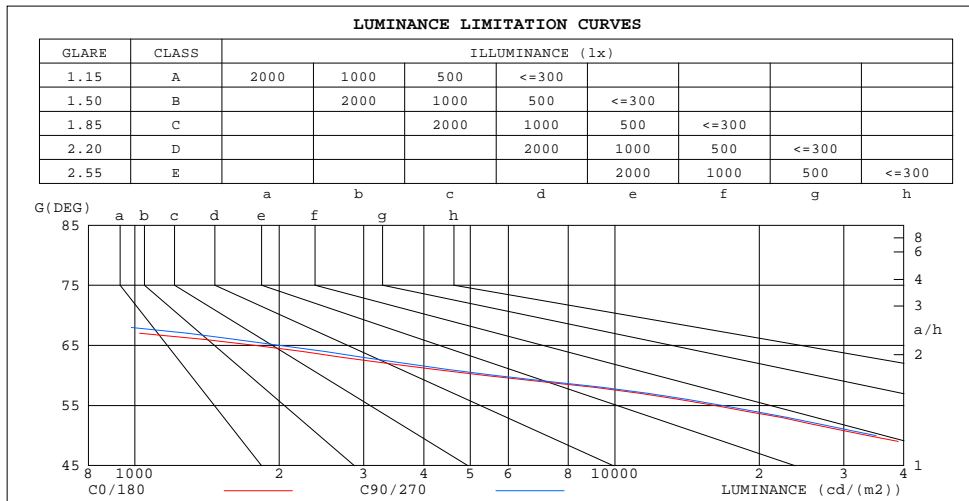
DIM.:

SERIAL No.: 2410111241

MFR.: RISE

SUR.: 0.000660185m2

Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	60	108
80	84	68
75	90	103
70	613	571
65	1782	2003
60	5373	5641
55	16195	16797
50	33738	35022
45	70148	73674

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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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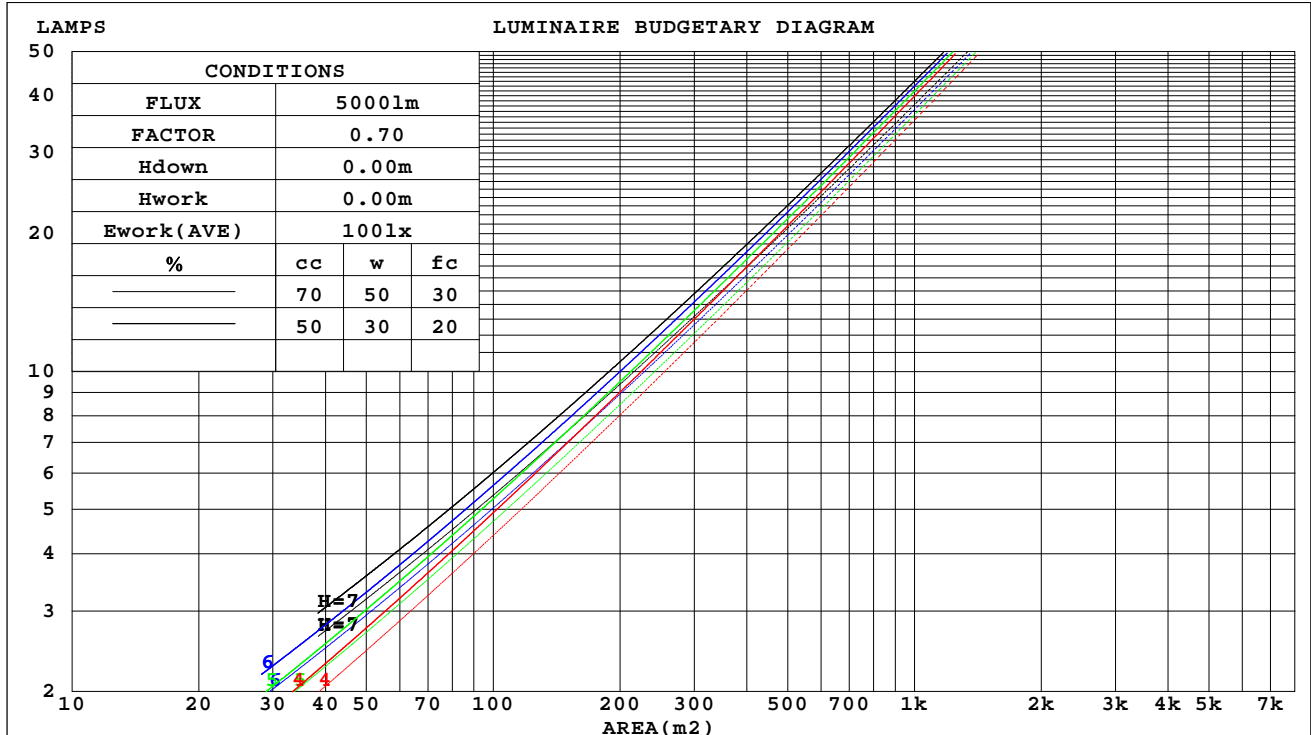
SERIAL No.: 2410111241

MFR.: RISE

SUR.: 0.000660185m2

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.: 0.000660185m2	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	.124	.071	.022	.119	.068	.022	.110	.063	.020	.102	.059	.019	.094	.055	.018	
2.0	.119	.065	.020	.115	.063	.019	.107	.060	.019	.100	.056	.018	.094	.053	.017	
3.0	.113	.060	.018	.110	.059	.018	.104	.056	.017	.098	.053	.016	.092	.051	.016	
4.0	.108	.056	.017	.105	.055	.016	.100	.053	.016	.094	.051	.015	.090	.049	.015	
5.0	.103	.053	.015	.101	.052	.015	.096	.050	.015	.091	.048	.014	.087	.047	.014	
6.0	.099	.049	.014	.096	.049	.014	.092	.047	.014	.088	.046	.013	.084	.044	.013	
7.0	.094	.047	.013	.092	.046	.013	.089	.045	.013	.085	.044	.013	.082	.042	.012	
8.0	.090	.044	.012	.088	.044	.012	.085	.043	.012	.082	.042	.012	.079	.041	.012	
9.0	.087	.042	.012	.085	.041	.012	.082	.041	.011	.079	.040	.011	.076	.039	.011	
10.0	.083	.040	.011	.082	.039	.011	.079	.039	.011	.076	.038	.011	.074	.037	.011	

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	.136	.136	.136	.116	.116	.116	.079	.079	.079	.045	.045	.045	.015	.015	.015	
1.0	.122	.112	.103	.104	.096	.089	.071	.066	.062	.041	.038	.036	.013	.012	.012	
2.0	.111	.094	.081	.095	.081	.070	.065	.056	.049	.038	.033	.028	.012	.011	.009	
3.0	.102	.081	.064	.087	.070	.056	.060	.048	.039	.035	.028	.023	.011	.009	.008	
4.0	.095	.070	.052	.081	.061	.045	.056	.042	.032	.032	.025	.019	.010	.008	.006	
5.0	.088	.062	.043	.076	.054	.037	.052	.038	.026	.030	.022	.016	.010	.007	.005	
6.0	.083	.055	.036	.071	.048	.031	.049	.034	.022	.029	.020	.013	.009	.006	.004	
7.0	.079	.050	.030	.068	.043	.026	.047	.030	.019	.027	.018	.011	.009	.006	.004	
8.0	.075	.046	.026	.064	.040	.023	.044	.028	.016	.026	.016	.010	.008	.005	.003	
9.0	.071	.042	.022	.061	.036	.020	.042	.026	.014	.025	.015	.008	.008	.005	.003	
10.0	.068	.039	.020	.058	.034	.017	.040	.024	.012	.024	.014	.007	.008	.005	.002	

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30minutes warm-up

UGR(Unified Glare Rating) Table

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NAME: 2417.203					TYPE:			WEIGHT:		
SPEC.: 3000K					DIM.:			SERIAL No.: 2410111241		
MFR.: RISE					SUR.: 0.000660185m2			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	24.3	25.2	24.5	25.4	25.5	24.5	25.4	24.7	25.6	25.8
3H	24.1	25.0	24.4	25.1	25.4	24.3	25.2	24.6	25.4	25.6
4H	24.0	24.8	24.3	25.0	25.3	24.2	25.1	24.5	25.3	25.5
6H	23.9	24.7	24.2	24.9	25.2	24.2	24.9	24.5	25.2	25.4
8H	23.9	24.6	24.2	24.9	25.1	24.1	24.8	24.4	25.1	25.4
12H	23.8	24.5	24.1	24.8	25.1	24.1	24.8	24.4	25.0	25.3
4H 2H	24.0	24.8	24.3	25.0	25.3	24.3	25.1	24.5	25.3	25.5
3H	23.8	24.5	24.2	24.8	25.1	24.1	24.8	24.4	25.0	25.3
4H	23.7	24.4	24.1	24.7	25.0	24.0	24.6	24.3	24.9	25.2
6H	23.6	24.2	24.0	24.5	24.9	23.9	24.4	24.3	24.8	25.1
8H	23.6	24.1	24.0	24.5	24.8	23.8	24.3	24.2	24.7	25.1
12H	23.5	24.0	24.0	24.4	24.8	23.8	24.3	24.2	24.6	25.0
8H 4H	23.6	24.1	24.0	24.5	24.8	23.8	24.4	24.2	24.7	25.1
6H	23.5	23.9	23.9	24.3	24.7	23.7	24.2	24.2	24.5	25.0
8H	23.4	23.8	23.9	24.2	24.7	23.7	24.1	24.1	24.5	24.9
12H	23.4	23.7	23.9	24.1	24.6	23.6	23.9	24.1	24.4	24.9
12H 4H	23.5	24.0	24.0	24.4	24.8	23.8	24.3	24.2	24.6	25.0
6H	23.4	23.8	23.9	24.2	24.7	23.7	24.1	24.1	24.5	24.9
8H	23.4	23.7	23.9	24.1	24.6	23.6	23.9	24.1	24.4	24.9
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 3.1 / -12.7					+ 3.2 / -12.8				
1.5H	+ 5.0 / - 8.8					+ 5.2 / - 9.1				
2.0H	+ 6.3 / -14.3					+ 6.5 / -14.0				

CIE Pub.117, 673.9 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -1.4)
Area: 0.000660185 m2

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UTILIZATION FACTORS TABLE

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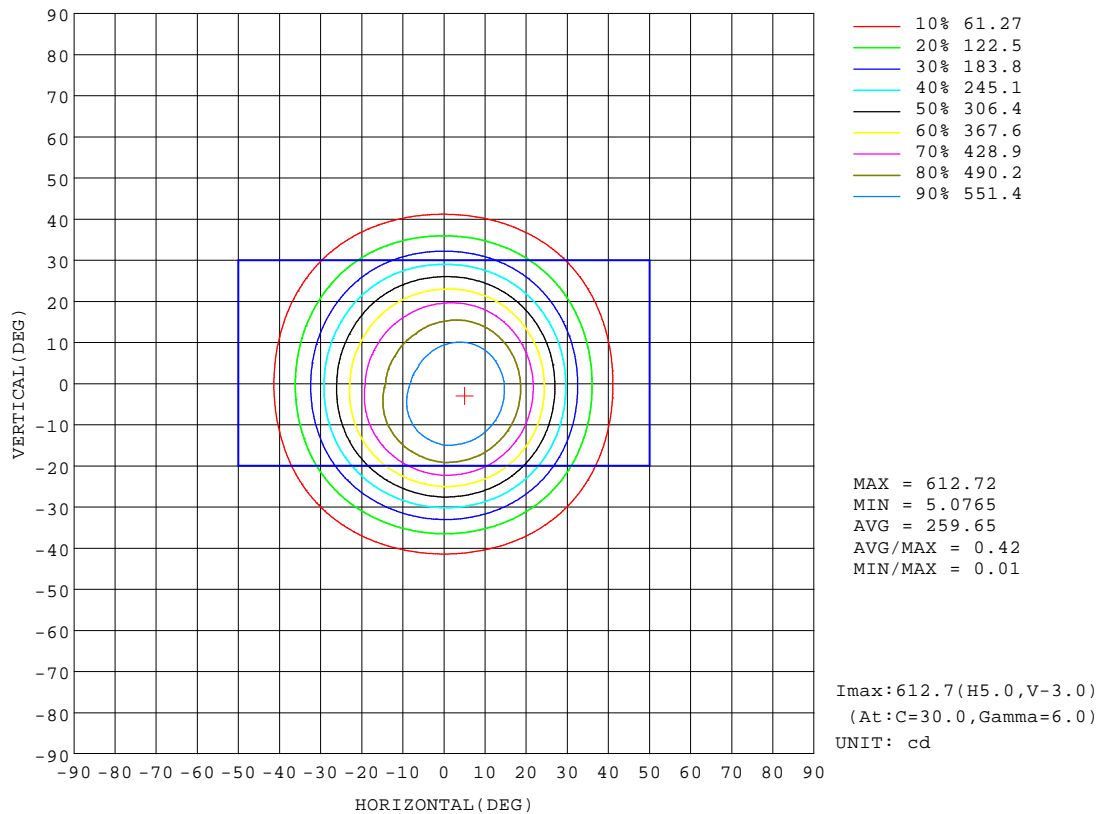
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	62	57	55	62	57	54	61	57	54	52
0.80	67	63	60	67	63	60	66	62	60	57
1.00	71	67	64	70	66	64	69	66	63	61
1.25	74	70	67	73	69	67	71	69	67	64
1.50	75	72	70	75	72	69	73	71	69	65
2.00	77	74	72	76	74	72	74	72	71	67
2.50	79	76	74	77	75	73	75	73	72	68
3.00	80	77	75	78	76	75	76	74	73	68
4.00	81	79	78	80	78	77	77	76	75	70
5.00	82	80	79	80	79	78	78	77	76	70
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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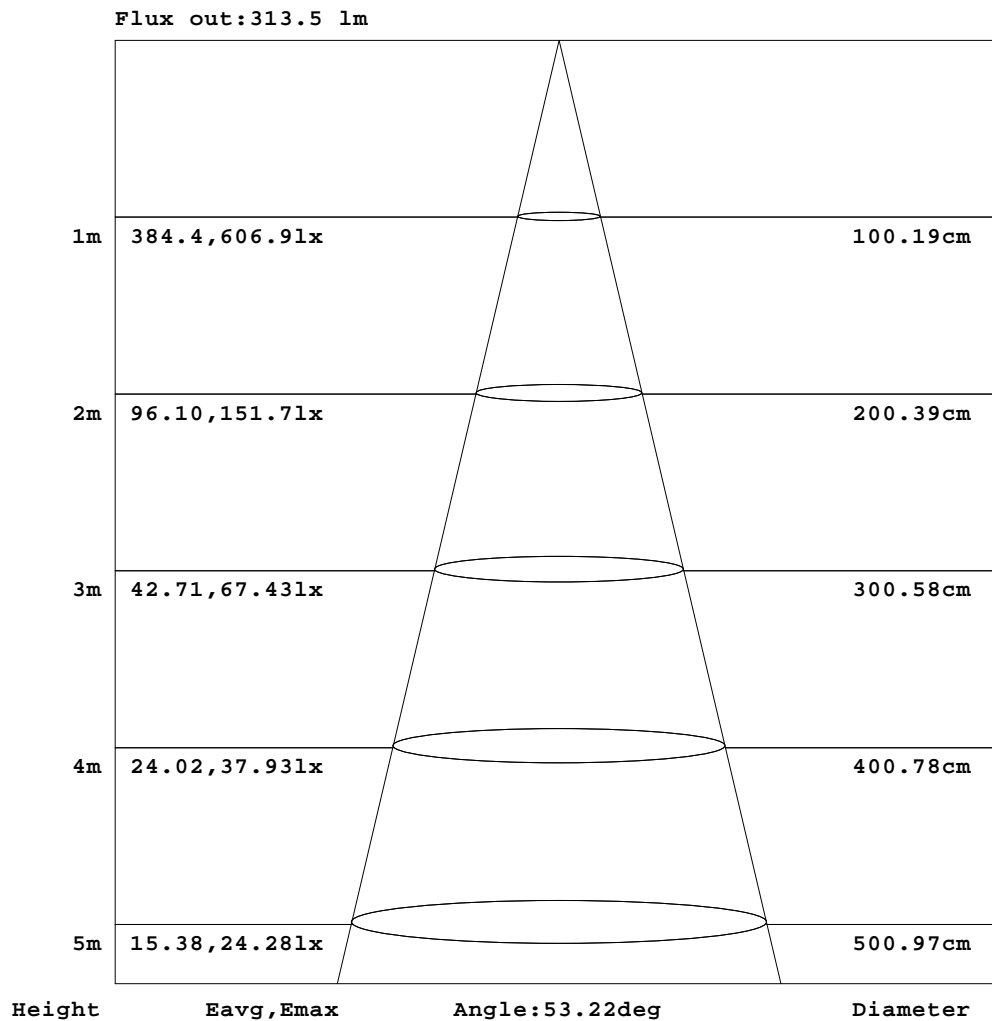


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AAI Figure

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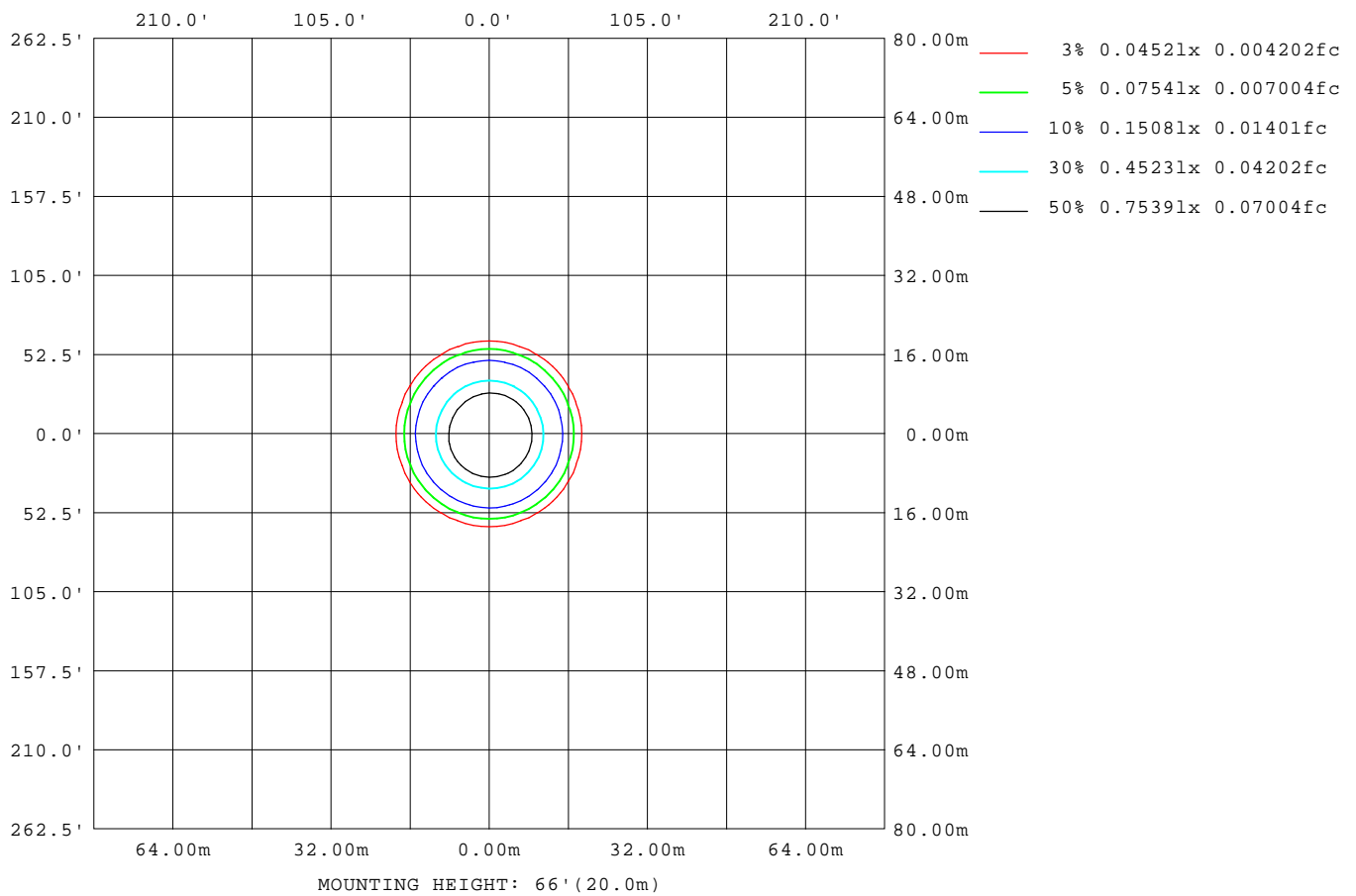
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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LED Avg.L Report

Test:U:23.998V I:0.2708A P:6.4987W PF:1.0000 Freq:59.98Hz Lamp Flux:673.86x1 lm		
NAME: 2417.203	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2410111241
MFR.: RISE	SUR.: 0.000660185m2	Shielding Angle:

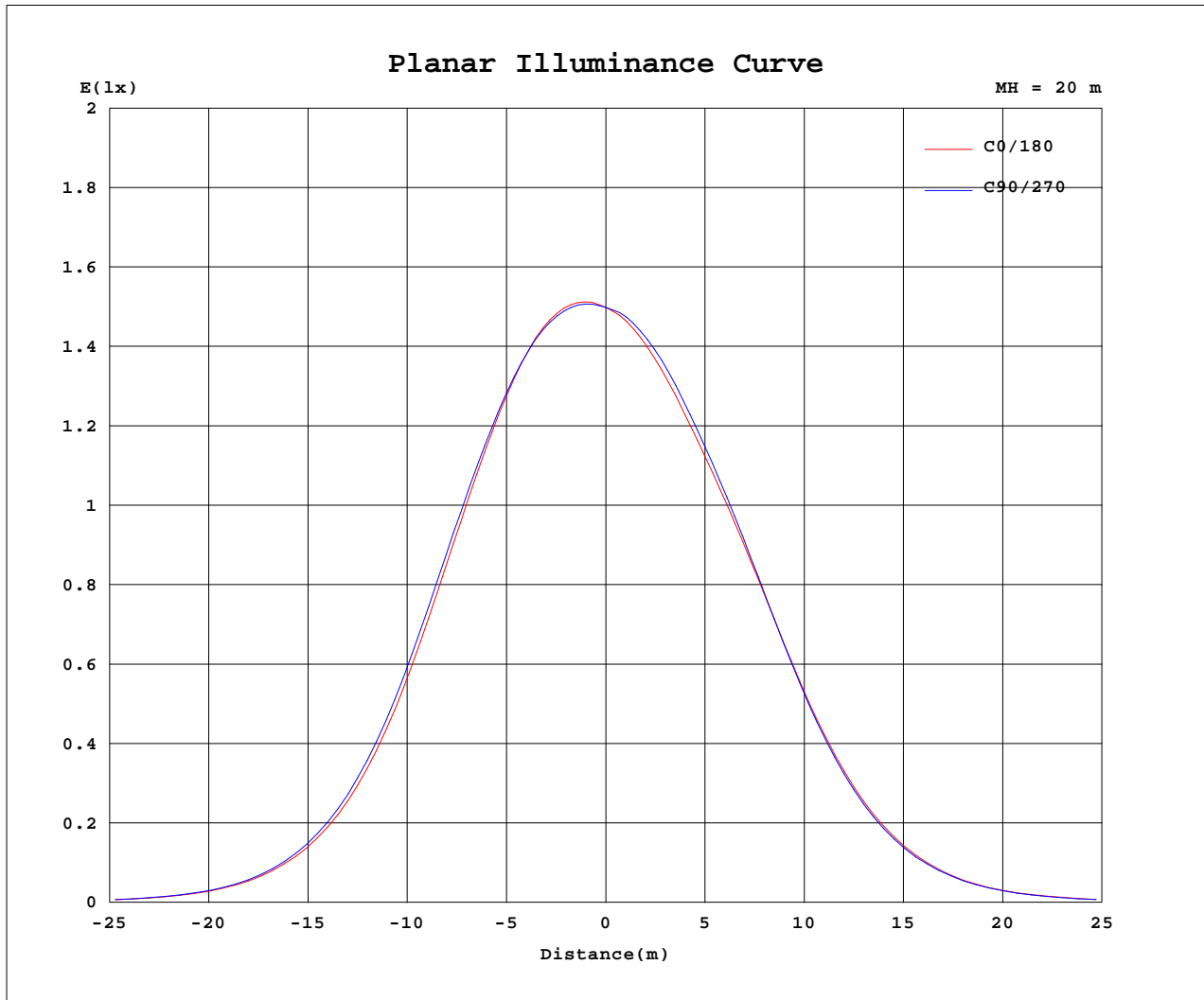
AvgL	cd/m2
L_0~180(65)av	1717
L_0~180(75)av	103
L_0~180(85)av	73
L_90~270(65)av	1969
L_90~270(75)av	95
L_90~270(85)av	105
L_45(65)av	1853
L_45(75)av	87
L_45(85)av	31

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2024-10-11

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:HK 50R
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: 2024-10-11

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LUMINOUS DISTRIBUTION INTENSITY DATA

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MFR.: RISE	SUR.: 0.000660185m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	599	599	599	599	599	599	599	599	599	599	599	599						
5	609	613	611	606	597	586	576	572	575	582	593	602						
10	595	602	600	594	577	555	534	527	531	545	564	582						
15	547	556	557	551	532	509	482	475	477	491	512	532						
20	464	475	479	476	459	440	416	409	410	421	436	450						
25	354	365	372	369	356	344	328	321	323	326	335	343						
30	237	246	252	250	242	237	229	224	226	224	228	231						
35	139	144	147	148	144	144	140	136	138	136	137	137						
40	72.1	74.5	76.1	76.2	75.2	75.5	74.4	72.7	72.8	72.0	71.7	71.6						
45	32.7	33.8	34.2	34.4	34.4	35.1	34.8	33.8	33.8	33.7	33.5	33.2						
50	14.3	14.6	14.6	14.9	15.1	15.5	15.5	15.0	14.9	14.8	14.8	14.7						
55	6.13	6.24	6.25	6.36	6.57	6.89	6.96	6.79	6.71	6.59	6.50	6.45						
60	1.77	1.87	1.87	1.86	1.88	2.03	2.11	2.15	2.09	2.10	2.05	1.94						
65	0.50	0.50	0.54	0.56	0.53	0.48	0.46	0.48	0.52	0.54	0.55	0.53						
70	0.14	0.14	0.13	0.13	0.12	0.13	0.10	0.09	0.09	0.11	0.12	0.14						
75	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01						
80	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.00	0.01						
85	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01	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						

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