

Luminaire Photograph



Light Output Ratio:	49.8%	
Luminaire Power:	12.16 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	0.30	fine grid method.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: zoe
Test Date: 2023-12-8

γ Range: 0 - 180DEG
γ 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: CMA1306-0000-000N0U0A30G Ra:90
LENS: PM-1084A 24R
DRIVER: PUP10A-1WMC-350 260mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

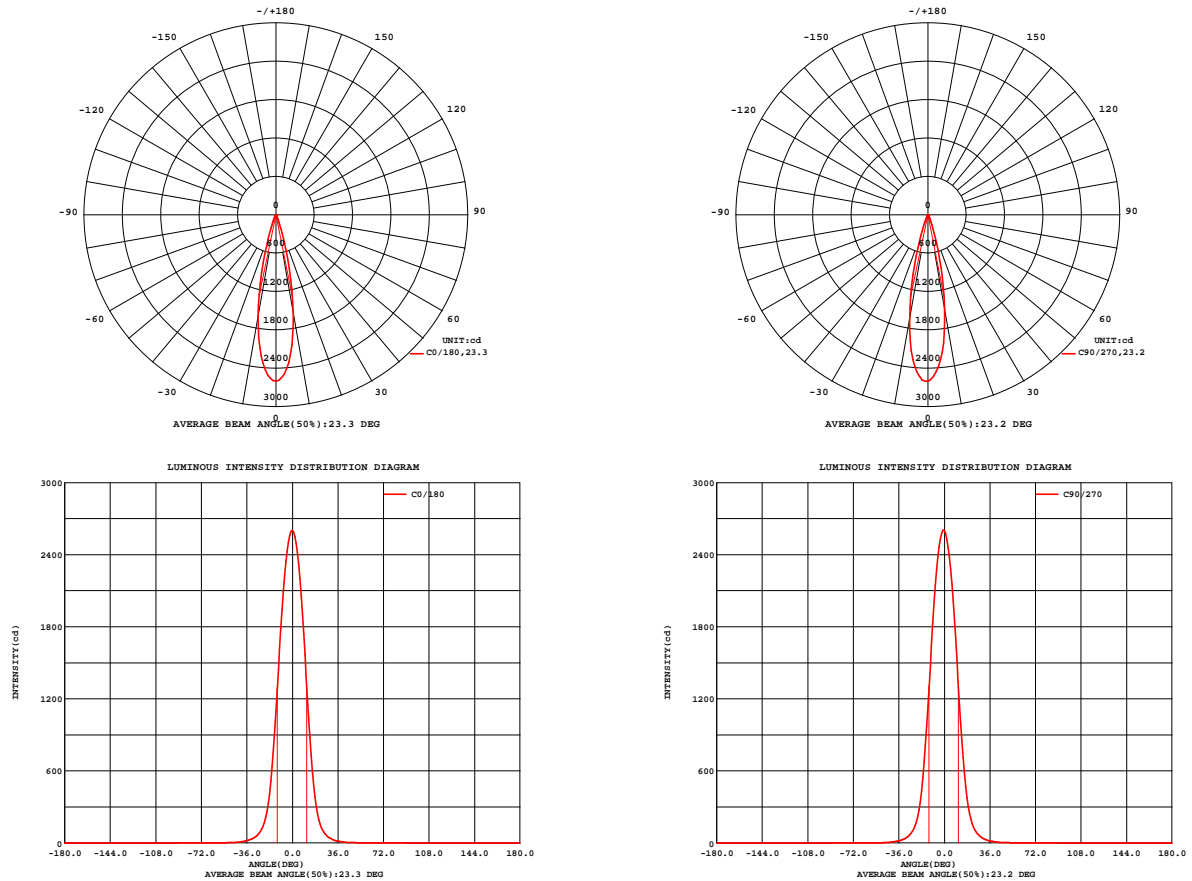


Fig. C0/C180

Fig. C90/C270

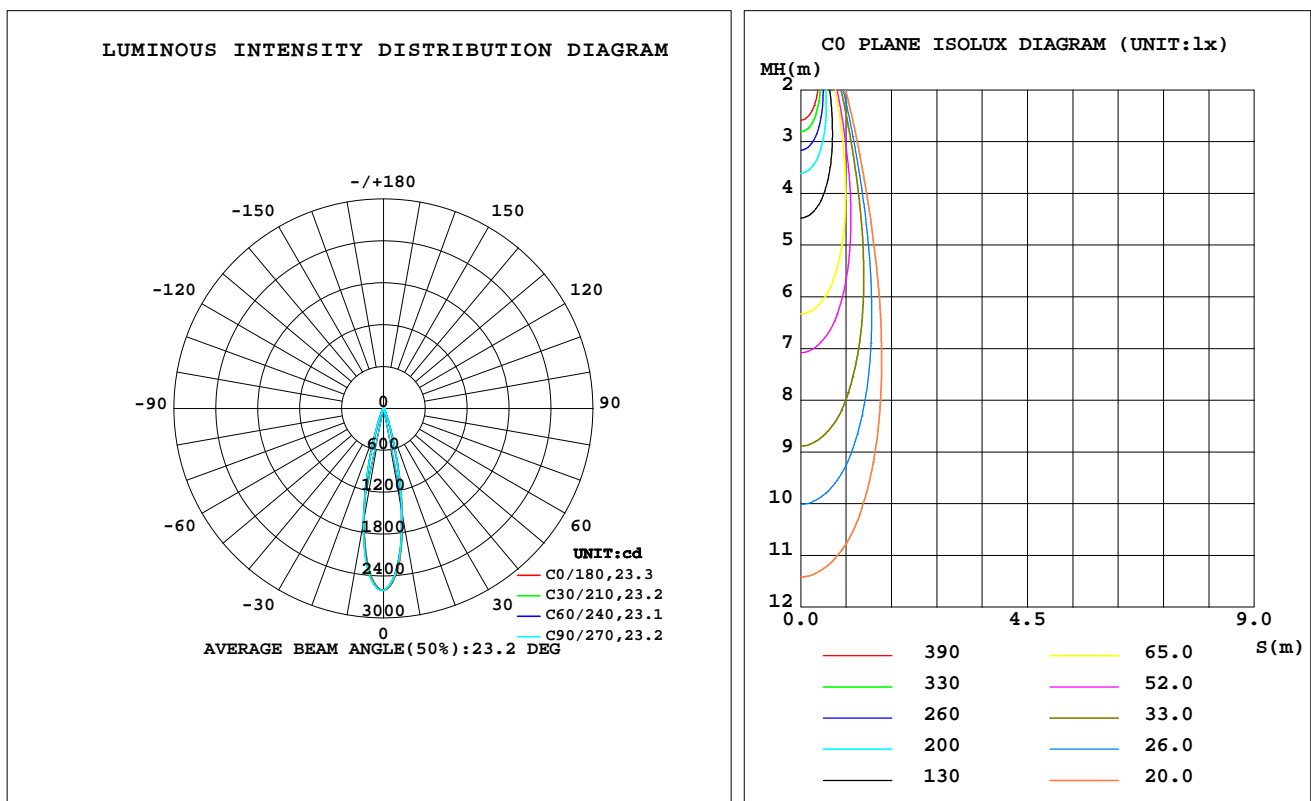
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30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.18V I:0.1020A P:12.157W PF:0.9900 Freq:59.98Hz Lamp Flux:959.178x1 lm		
NAME: 2318.117-LEA-13	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2312081433
MFR.: RISE	SUR.: 0.00180864m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 39.29 lm/W			
MODEL	CREE	I _{max} (cd)	2604	S/MH(C0/180)	0.39
NOMINAL POWER(W)	12	LOR(%)	49.8	S/MH(C90/270)	0.40
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	477.59	η UP,DN(C0-180)	0.0,24.1
NOMINAL FLUX(lm)	959.178	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,25.6
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	120	η down(%)	49.8	CIBSE SHR MAX	0.30



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ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1564	1511	1514	1568	1619	1645	1664	1638	0- 10	198.2	198.2	41.5,20.7
20	241.0	241.6	243.3	251.2	260.3	272.0	272.7	259.5	10- 20	210.4	408.7	85.6,42.6
30	38.27	39.89	41.50	42.54	44.77	45.28	43.19	39.77	20- 30	49.19	457.9	95.9,47.7
40	8.676	9.521	9.799	10.91	11.10	10.63	9.977	9.185	30- 40	13.68	471.5	98.7,49.2
50	2.851	3.233	3.000	3.052	3.057	2.592	2.368	2.508	40- 50	3.944	475.5	99.6,49.6
60	0.7898	0.7278	0.6987	0.7079	0.6961	0.6098	0.5270	0.6733	50- 60	1.605	477.1	99.9,49.7
70	0.2167	0.2145	0.2037	0.2053	0.2014	0.2240	0.2413	0.2153	60- 70	0.3843	477.5	100,49.8
80	0.0307	0.0293	0.0344	0.0303	0.0316	0.0271	0.0264	0.0228	70- 80	0.0940	477.6	100,49.8
90	0	0	0	0	0	0	0	0	80- 90	0.0210	477.6	100,49.8
100	0	0	0	0	0	0	0	0	90-100	0	477.6	100,49.8
110	0	0	0	0	0	0	0	0	100-110	0	477.6	100,49.8
120	0	0	0	0	0	0	0	0	110-120	0	477.6	100,49.8
130	0	0	0	0	0	0	0	0	120-130	0	477.6	100,49.8
140	0	0	0	0	0	0	0	0	130-140	0	477.6	100,49.8
150	0	0	0	0	0	0	0	0	140-150	0	477.6	100,49.8
160	0	0	0	0	0	0	0	0	150-160	0	477.6	100,49.8
170	0	0	0	0	0	0	0	0	160-170	0	477.6	100,49.8
180	0	0	0	0	0	0	0	0	170-180	0	477.6	100,49.8
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:120.18V I:0.1020A P:12.157W PF:0.9900 Freq:59.98Hz
Lamp Flux:959.178x1 lm

NAME: 2318.117-LEA-13

TYPE:

WEIGHT:

SPEC.: 3000K

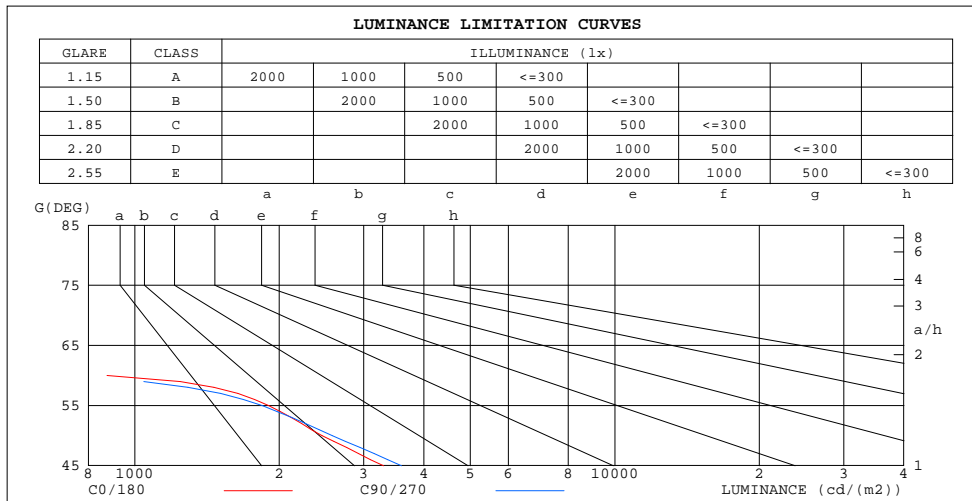
DIM.:

SERIAL No.: 2312081433

MFR.: RISE

SUR.: 0.00180864m2

Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	153	157
80	98	110
75	165	146
70	351	329
65	565	566
60	875	772
55	1900	1843
50	2456	2579
45	3300	3593

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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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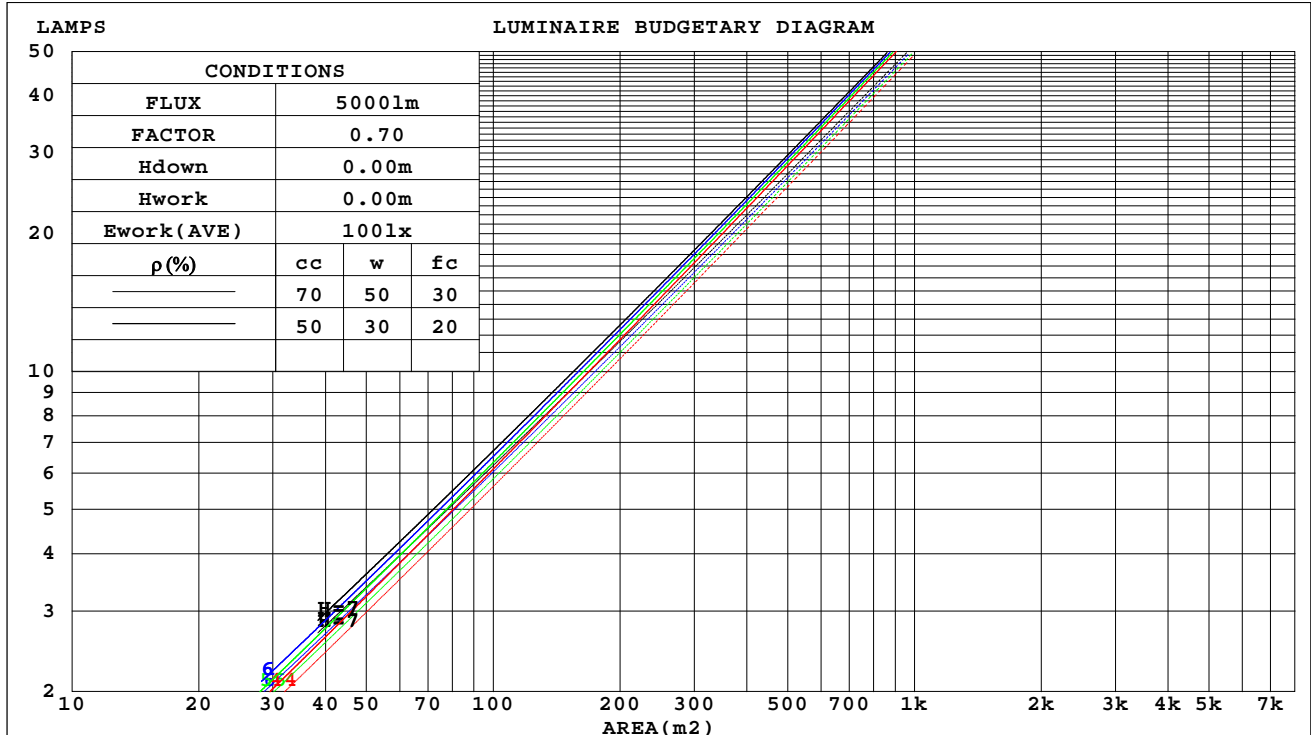
SERIAL No.: 2312081433

MFR.: RISE

SUR.: 0.00180864m2

Shielding Angle:

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{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.: 2312081433
MFR.: RISE	SUR.: 0.00180864m2	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.065	.037	.012	.062	.035	.011	.056	.032	.010	.050	.029	.009	.045	.026	.008	
2.0	.060	.033	.010	.057	.032	.010	.052	.029	.009	.048	.027	.008	.043	.025	.008	
3.0	.056	.030	.009	.054	.029	.009	.049	.027	.008	.045	.025	.008	.042	.023	.007	
4.0	.052	.027	.008	.050	.026	.008	.047	.025	.007	.043	.023	.007	.040	.022	.007	
5.0	.049	.025	.007	.047	.024	.007	.044	.023	.007	.042	.022	.007	.039	.021	.006	
6.0	.046	.023	.007	.045	.023	.007	.042	.022	.006	.040	.021	.006	.038	.020	.006	
7.0	.044	.022	.006	.043	.021	.006	.040	.020	.006	.038	.020	.006	.036	.019	.006	
8.0	.042	.020	.006	.041	.020	.006	.039	.019	.006	.037	.019	.005	.035	.018	.005	
9.0	.040	.019	.005	.039	.019	.005	.037	.018	.005	.035	.018	.005	.034	.017	.005	
10.0	.038	.018	.005	.037	.018	.005	.036	.017	.005	.034	.017	.005	.033	.017	.005	

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)										
0.0	.095	.095	.095	.081	.081	.081	.055	.055	.055	.032	.032	.032	.010	.010	.010		
1.0	.084	.079	.074	.072	.067	.064	.049	.046	.044	.028	.027	.026	.009	.009	.008		
2.0	.074	.066	.059	.064	.057	.051	.044	.039	.036	.025	.023	.021	.008	.007	.007		
3.0	.067	.056	.048	.057	.049	.042	.039	.034	.029	.023	.020	.017	.007	.006	.006		
4.0	.060	.049	.040	.052	.042	.035	.036	.029	.024	.021	.017	.014	.007	.006	.005		
5.0	.055	.042	.033	.047	.037	.029	.033	.026	.020	.019	.015	.012	.006	.005	.004		
6.0	.050	.037	.028	.043	.032	.025	.030	.023	.017	.017	.013	.010	.006	.004	.003		
7.0	.047	.033	.024	.040	.029	.021	.028	.020	.015	.016	.012	.009	.005	.004	.003		
8.0	.043	.030	.021	.037	.026	.018	.026	.018	.013	.015	.011	.008	.005	.004	.003		
9.0	.040	.027	.018	.035	.023	.016	.024	.017	.011	.014	.010	.007	.005	.003	.002		
10.0	.038	.025	.016	.033	.021	.014	.023	.015	.010	.013	.009	.006	.004	.003	.002		

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UGR(Unified Glare Rating) Table

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SPEC.: 3000K					DIM.:			SERIAL No.: 2312081433		
MFR.: RISE					SUR.: 0.00180864m2			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	6.3	6.9	6.5	7.1	7.2	6.6	7.2	6.8	7.3	7.5
3H	6.2	6.8	6.5	7.0	7.2	6.5	7.0	6.7	7.2	7.4
4H	6.2	6.7	6.4	6.9	7.1	6.4	6.9	6.7	7.2	7.4
6H	6.1	6.6	6.3	6.8	7.0	6.3	6.8	6.6	7.1	7.3
8H	6.0	6.5	6.3	6.8	7.0	6.3	6.8	6.6	7.0	7.3
12H	6.0	6.5	6.3	6.7	7.0	6.2	6.7	6.5	7.0	7.2
4H 2H	6.2	6.7	6.4	6.9	7.1	6.5	7.0	6.7	7.2	7.4
3H	6.1	6.6	6.4	6.8	7.1	6.3	6.8	6.6	7.1	7.3
4H	6.0	6.4	6.3	6.7	7.0	6.2	6.7	6.6	7.0	7.3
6H	5.9	6.3	6.2	6.6	6.9	6.1	6.5	6.5	6.9	7.2
8H	5.8	6.2	6.2	6.5	6.9	6.1	6.4	6.5	6.8	7.2
12H	5.8	6.1	6.2	6.5	6.9	6.0	6.4	6.4	6.7	7.1
8H 4H	5.8	6.2	6.2	6.5	6.9	6.1	6.4	6.5	6.8	7.2
6H	5.7	6.0	6.1	6.4	6.8	6.0	6.3	6.4	6.7	7.1
8H	5.7	5.9	6.1	6.3	6.8	5.9	6.2	6.4	6.6	7.0
12H	5.6	5.8	6.1	6.3	6.7	5.9	6.1	6.3	6.5	7.0
12H 4H	5.8	6.1	6.2	6.5	6.9	6.0	6.4	6.4	6.7	7.1
6H	5.7	5.9	6.1	6.3	6.8	5.9	6.2	6.4	6.6	7.0
8H	5.6	5.8	6.1	6.3	6.7	5.8	6.1	6.3	6.5	7.0
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 2.7 / - 5.3					+ 3.1 / - 6.0				
1.5H	+ 4.0 / - 3.0					+ 4.6 / - 3.2				
2.0H	+ 2.9 / - 6.5					+ 3.3 / - 6.0				

CIE Pub.117, 959.2 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.1)
Area: 0.00180864 m2

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UTILIZATION FACTORS TABLE

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SPEC.: 3000K	DIM.:	SERIAL No.: 2312081433
MFR.: RISE	SUR.: 0.00180864m2	Shielding Angle:

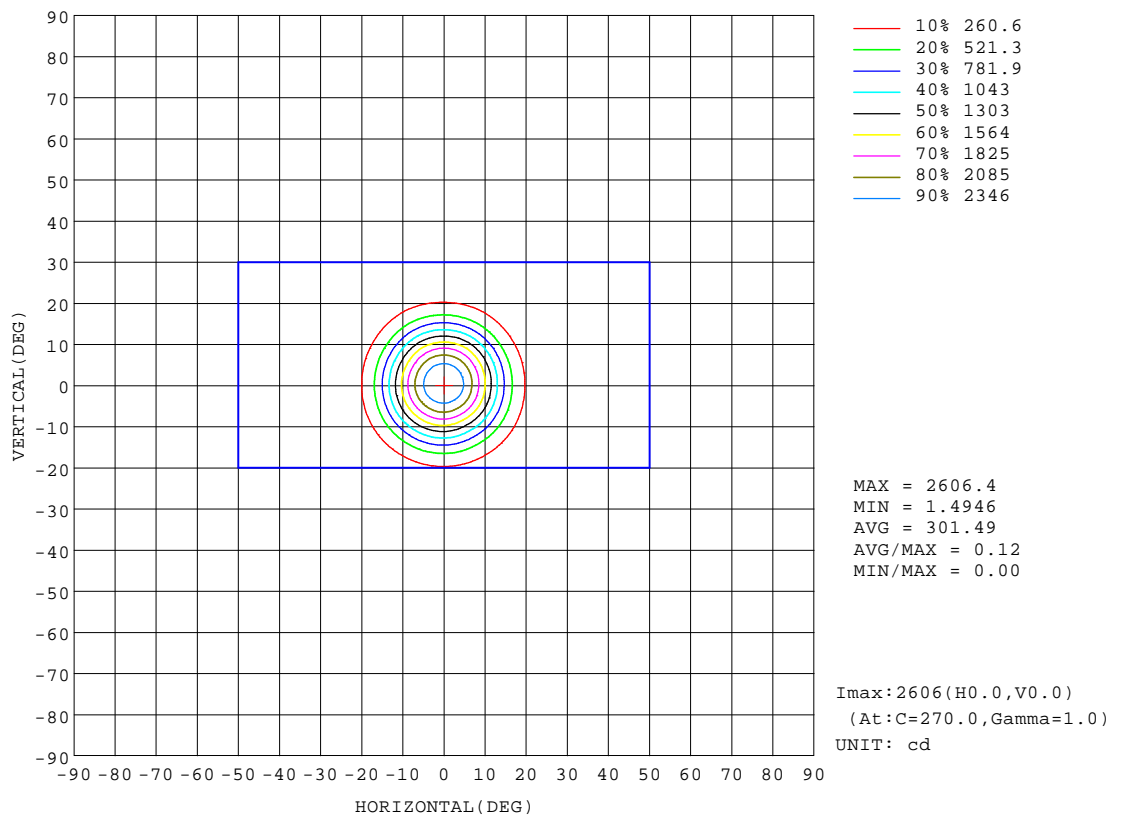
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	45	42	41	45	42	41	45	42	41	39
0.80	49	46	44	48	46	44	48	46	44	43
1.00	51	48	46	50	48	46	49	48	46	44
1.25	52	50	48	52	50	48	51	49	48	46
1.50	54	51	50	53	51	50	52	50	49	47
2.00	55	53	51	54	52	51	53	51	50	48
2.50	55	54	52	55	53	52	53	52	51	48
3.00	56	55	53	55	54	53	54	53	52	49
4.00	57	56	55	56	55	54	54	53	53	49
5.00	58	57	56	57	56	55	55	54	53	50
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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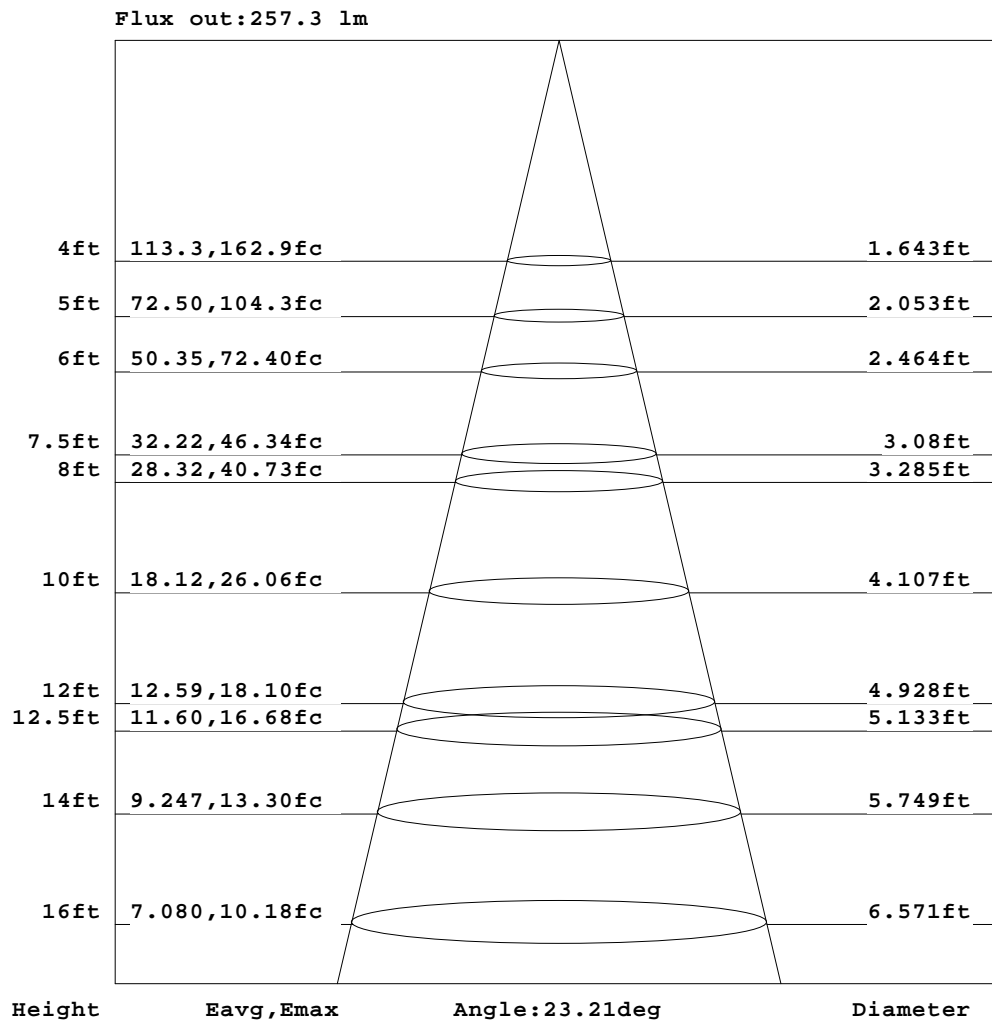


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AAI Figure

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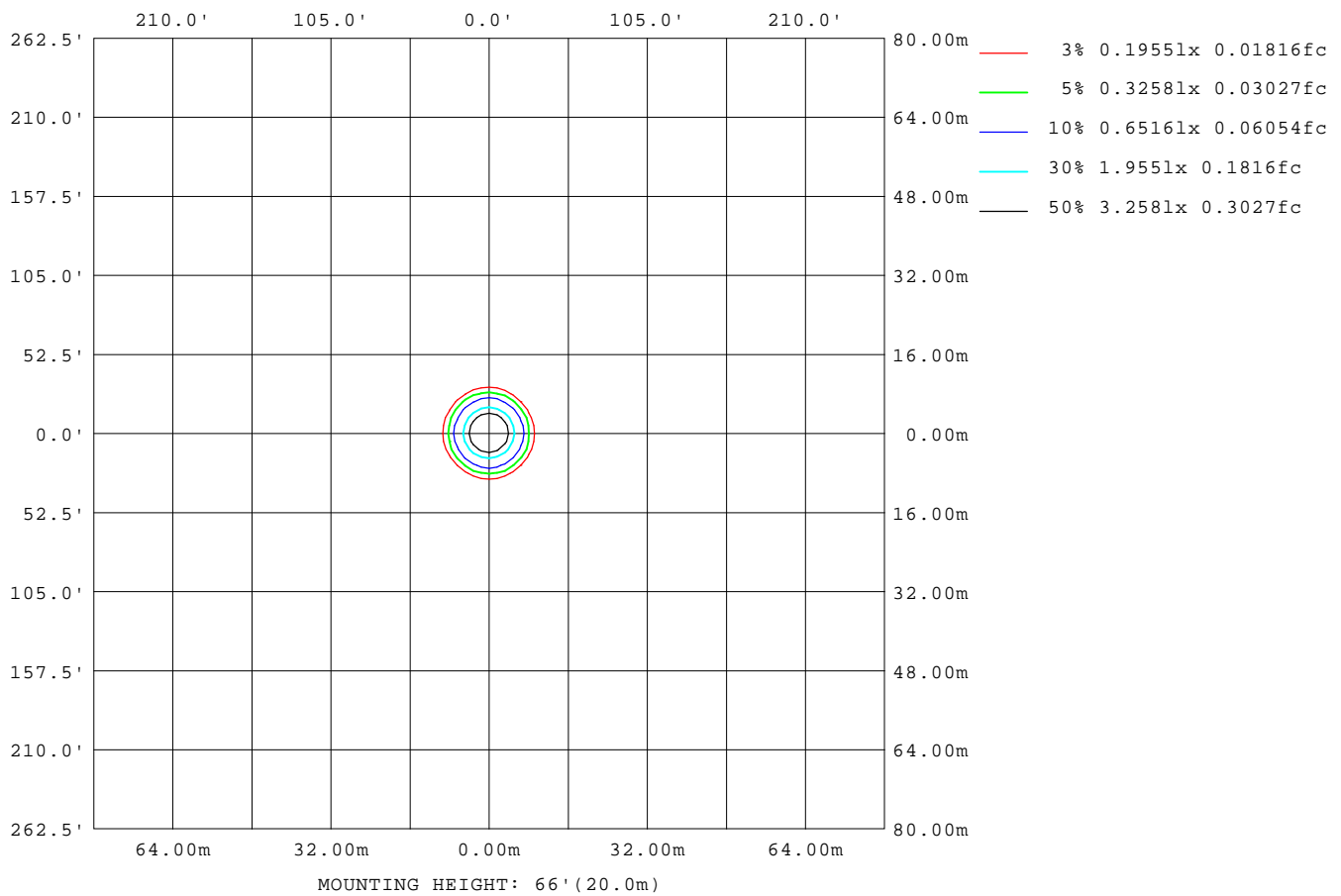
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

Test:U:120.18V I:0.1020A P:12.157W PF:0.9900 Freq:59.98Hz Lamp Flux:959.178x1 lm		
NAME: 2318.117-LEA-13	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2312081433
MFR.: RISE	SUR.: 0.00180864m2	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:zoe
Test Date:2023-12-8

γ Range: 0 - 180DEG
γ 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:CMA1306-0000-000N0U0A30G Ra:90
LENS:PM-1084A 24R
DRIVER:PUP10A-1WMC-350 260mA
30minutes warm-up

LED Avg.L Report

Test:U:120.18V I:0.1020A P:12.157W PF:0.9900 Freq:59.98Hz Lamp Flux:959.178x1 lm		
NAME: 2318.117-LEA-13	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2312081433
MFR.: RISE	SUR.: 0.00180864m2	Shielding Angle:

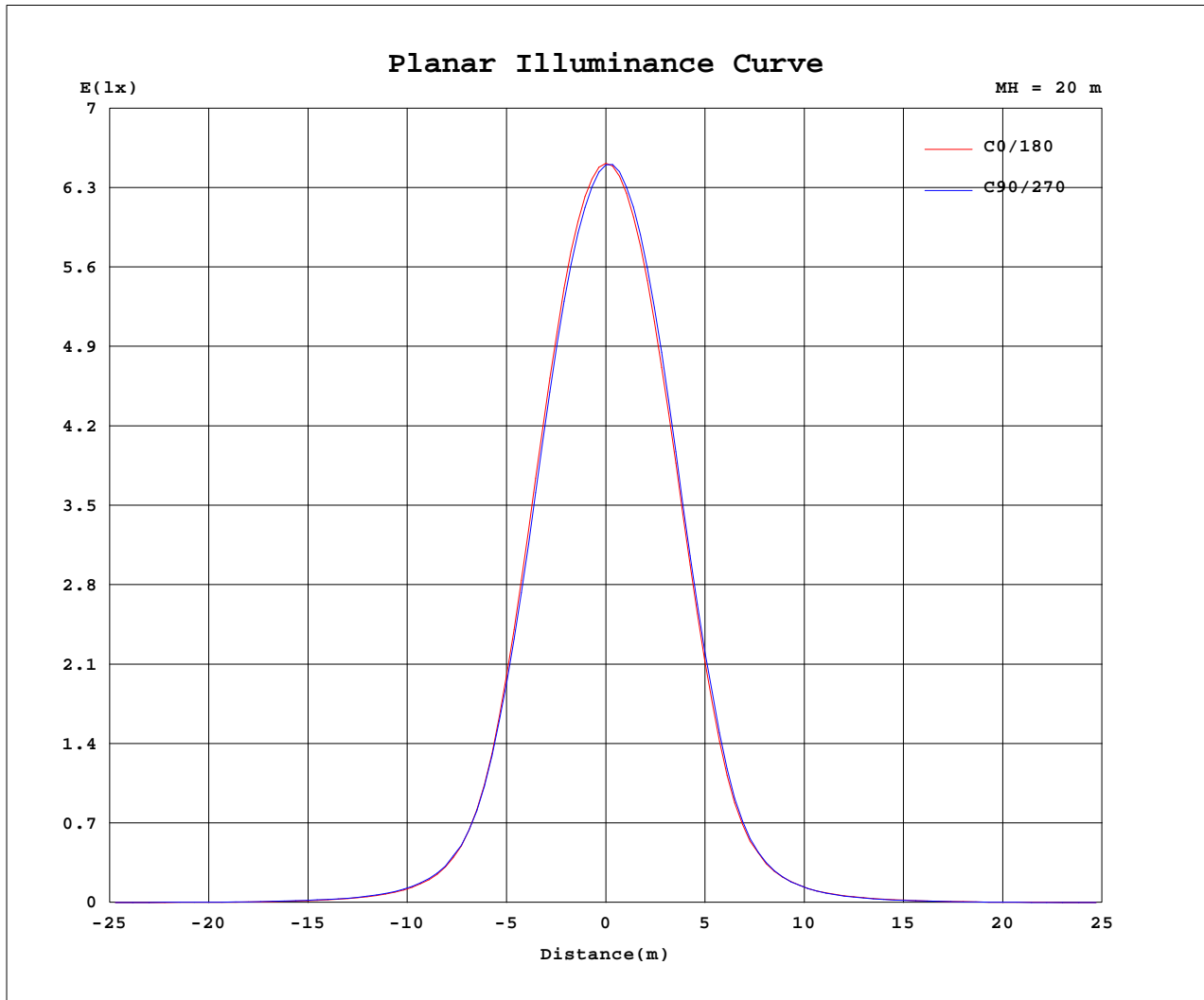
AvgL	cd/m2
L_0~180(65)av	562
L_0~180(75)av	155
L_0~180(85)av	146
L_90~270(65)av	462
L_90~270(75)av	160
L_90~270(85)av	147
L_45(65)av	497
L_45(75)av	153
L_45(85)av	110

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2023-12-8

γ Range: 0 - 180DEG
γ 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:CMA1306-0000-000N0U0A30G Ra:90
LENS:PM-1084A 24R
DRIVER:PUP10A-1WMC-350 260mA
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: 2023-12-8

γ Range: 0 - 180DEG
 γ 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: CMA1306-0000-000N0U0A30G Ra:90
 LENS: PM-1084A 24R
 DRIVER: PUP10A-1WMC-350 260mA
 30minutes warm-up



LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.18V I:0.1020A P:12.157W PF:0.9900 Freq:59.98Hz Lamp Flux:959.178x1 lm		
NAME: 2318.117-LEA-13	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2312081433
MFR.: RISE	SUR.: 0.00180864m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	2602	2602	2602	2602	2602	2602	2602	2602	2602	2602	2602	2602						
5	2319	2297	2270	2277	2288	2321	2339	2350	2376	2383	2373	2346						
10	1564	1534	1488	1514	1543	1592	1619	1624	1665	1664	1665	1612						
15	725	719	694	711	729	766	781	798	825	823	808	769						
20	241	244	239	243	246	257	260	265	279	273	269	250						
25	89.9	91.7	92.1	93.7	91.9	96.1	99.3	100	103	98.9	93.7	90.4						
30	38.3	39.5	40.3	41.5	41.4	43.7	44.8	45.2	45.4	43.2	41.0	38.5						
35	18.2	19.5	20.0	20.7	21.2	22.2	22.6	22.3	22.0	20.8	20.3	18.6						
40	8.68	9.37	9.68	9.80	10.6	11.2	11.1	10.8	10.5	9.98	9.57	8.80						
45	4.21	4.60	4.58	4.60	5.03	5.10	4.87	4.54	4.30	4.11	4.07	3.99						
50	2.85	3.27	3.19	3.00	3.04	3.06	3.06	2.70	2.48	2.37	2.44	2.58						
55	1.97	2.41	2.23	1.91	1.88	1.90	1.86	1.65	1.49	1.41	1.52	1.73						
60	0.79	0.76	0.70	0.70	0.71	0.71	0.70	0.63	0.59	0.53	0.62	0.72						
65	0.43	0.44	0.44	0.43	0.43	0.43	0.43	0.35	0.28	0.27	0.30	0.38						
70	0.22	0.22	0.21	0.20	0.20	0.21	0.20	0.21	0.23	0.24	0.23	0.21						
75	0.08	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.07	0.07						
80	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02						
85	0.02	0.02	0.02	0.02	0.01	0.02	0.02	0.02	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						

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