

Luminaire Photograph



Light Output Ratio:	68.4%	
Luminaire Power:	9.342 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: 2022-10-19

Range: 0 - 180DEG
Interval: 1.0DEG
Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.416
Humidity: 65.0%
Test Distance: 3.160m [K=1.0000]
Remarks: LAMP: CMA1306-0000-000F0U0A30G Ra:90
LENS: PM-1084 15R
NO DRIVER: 500mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

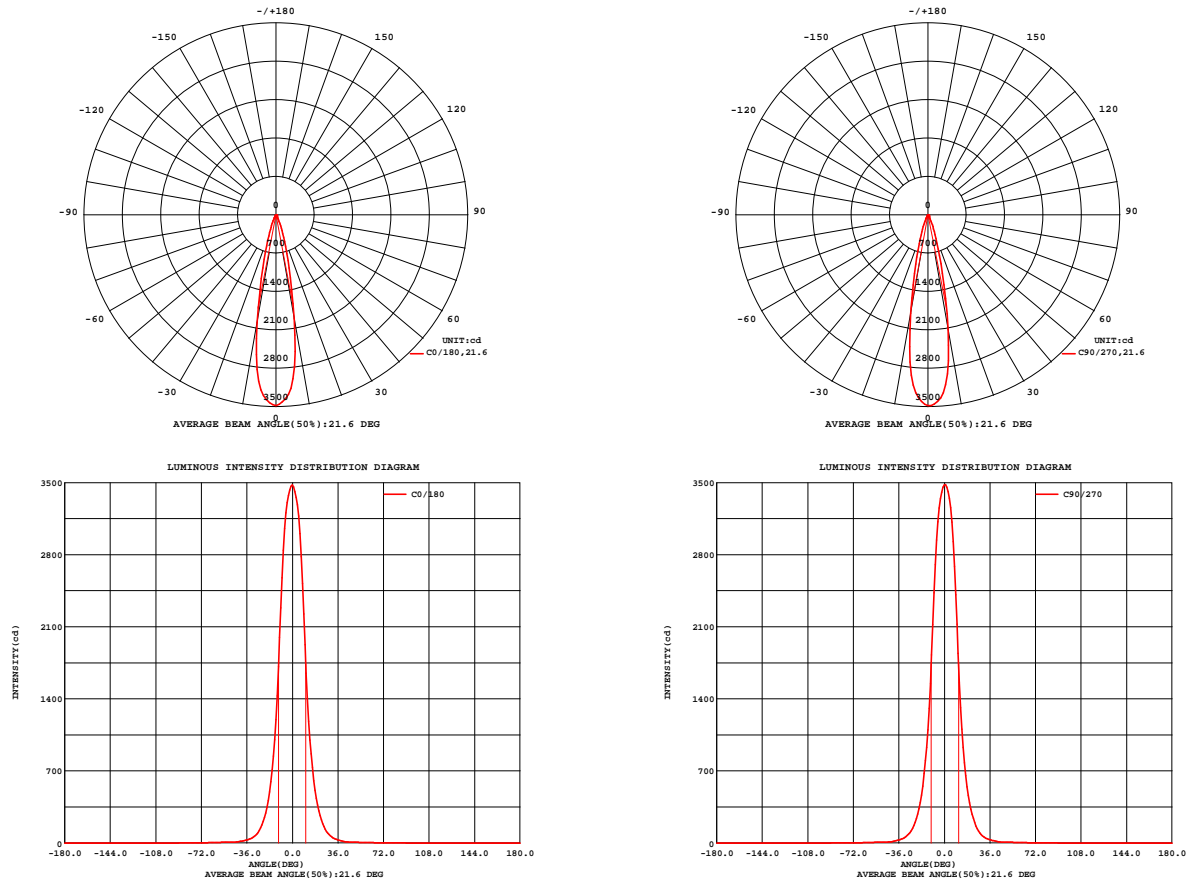


Fig. C0/C180

Fig. C90/C270

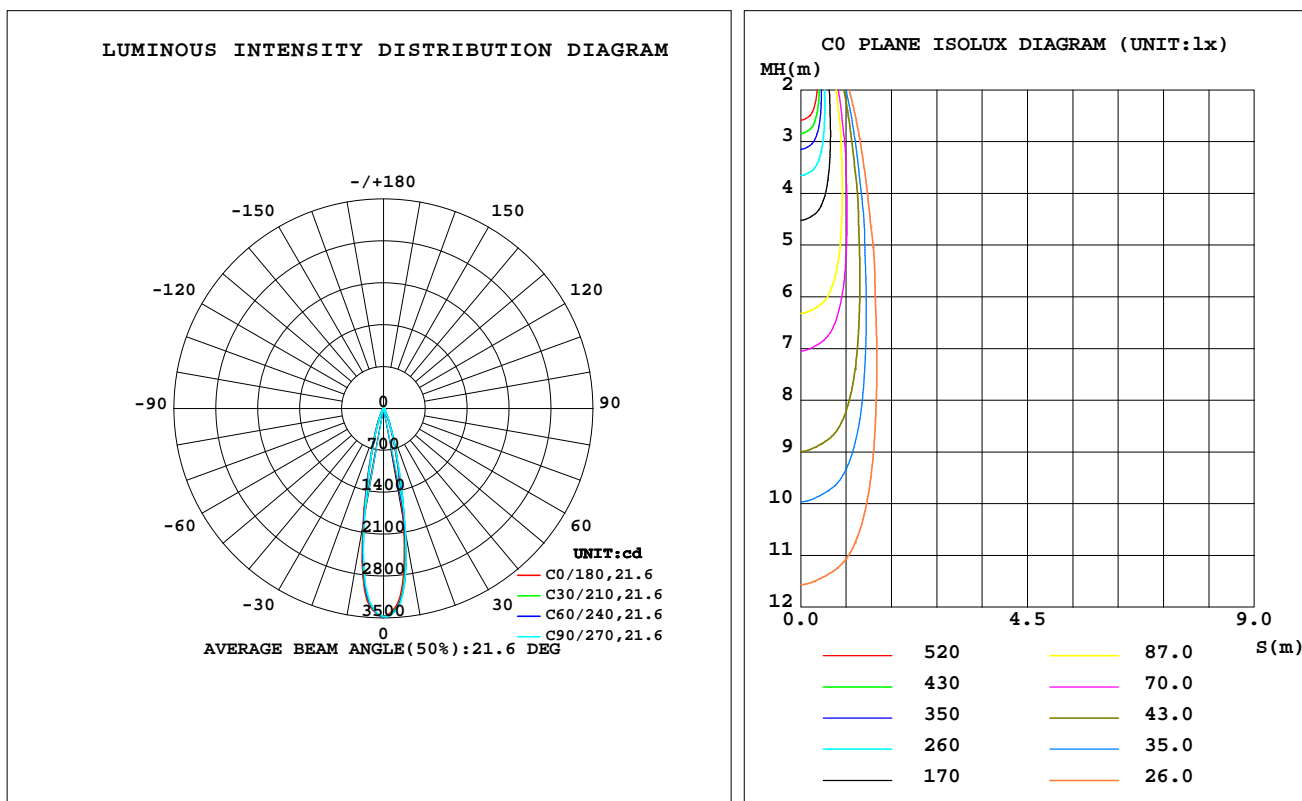
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
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LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:18.692V I:0.4998A P:9.3422W PF:1.0000 Freq:59.98Hz Lamp Flux:919.82x1 lm		
NAME: 2118.564-LEA-09B	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2210191016
MFR.: RISE	SUR.: 0.001256m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 67.30 lm/W			
MODEL	CREE	I _{max} (cd)	3478	S/MH(C0/180)	0.36
NOMINAL POWER(W)	9	LOR(%)	68.4	S/MH(C90/270)	0.35
RATED VOLTAGE(V)	18	TOTAL FLUX(lm)	628.70	UP,DN(C0-180)	0.0,35.0
NOMINAL FLUX(lm)	919.82	CIE CLASS	DIRECT	UP,DN(C180-360)	0.0,33.4
LAMPS INSIDE	1	up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	18	down(%)	68.4	CIBSE SHR MAX	0.30



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ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

	C0	C45	C90	C135	C180	C225	C270	C315		zone	total	%lum,lamp
10	1925	2061	2125	1981	1998	1887	1826	1946	0- 10	264.3	264.3	42,28.7
20	367.3	388.6	388.7	346.4	345.8	333.7	332.6	365.2	10- 20	247.9	512.3	81.5,55.7
30	71.06	71.68	70.48	66.05	62.74	60.28	63.55	71.10	20- 30	76.29	588.5	93.6,64
40	17.19	18.32	18.88	17.72	18.19	17.14	16.77	17.70	30- 40	22.53	611.1	97.2,66.4
50	6.622	6.729	6.914	7.058	7.282	7.293	7.123	6.764	40- 50	7.675	618.8	98.4,67.3
60	4.771	4.929	5.301	5.514	5.708	5.660	5.317	4.991	50- 60	5.493	624.2	99.3,67.9
70	1.315	1.399	1.488	1.473	1.471	1.376	1.304	1.303	60- 70	3.231	627.5	99.8,68.2
80	0.4812	0.5208	0.5749	0.5589	0.5653	0.5070	0.4713	0.4694	70- 80	0.9648	628.4	100,68.3
90	0	0	0	0	0	0	0	0	80- 90	0.2579	628.7	100,68.4
100	0	0	0	0	0	0	0	0	90-100	0	628.7	100,68.4
110	0	0	0	0	0	0	0	0	100-110	0	628.7	100,68.4
120	0	0	0	0	0	0	0	0	110-120	0	628.7	100,68.4
130	0	0	0	0	0	0	0	0	120-130	0	628.7	100,68.4
140	0	0	0	0	0	0	0	0	130-140	0	628.7	100,68.4
150	0	0	0	0	0	0	0	0	140-150	0	628.7	100,68.4
160	0	0	0	0	0	0	0	0	150-160	0	628.7	100,68.4
170	0	0	0	0	0	0	0	0	160-170	0	628.7	100,68.4
180	0	0	0	0	0	0	0	0	170-180	0	628.7	100,68.4
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:18.692V I:0.4998A P:9.3422W PF:1.0000 Freq:59.98Hz
Lamp Flux:919.82x1 lm

NAME: 2118.564-LEA-09B

TYPE:

WEIGHT:

SPEC.: 3000K

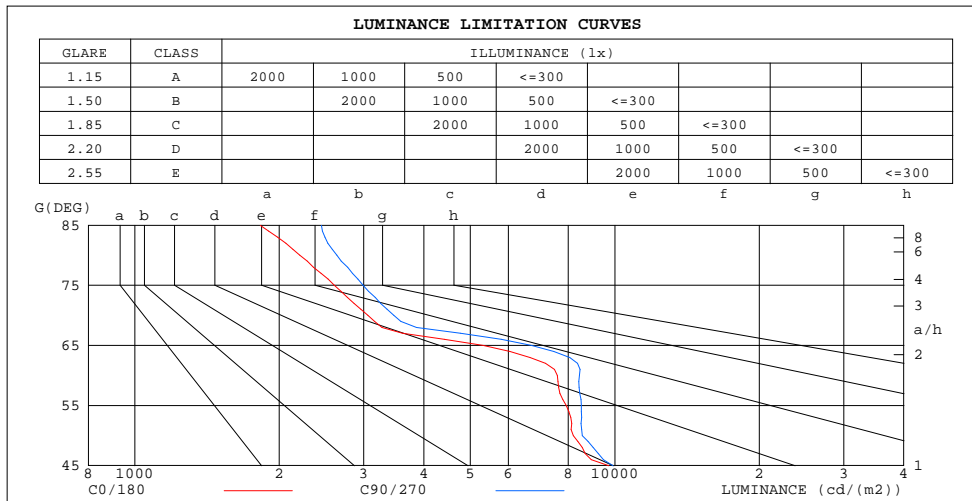
DIM.:

SERIAL No.: 2210191016

MFR.: RISE

SUR.: 0.001256m2

Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	G(270)	
85	1827	2447
80	2205	2635
75	2602	2989
70	3059	3462
65	5313	6708
60	7592	8440
55	7921	8513
50	8198	8562
45	9719	9912

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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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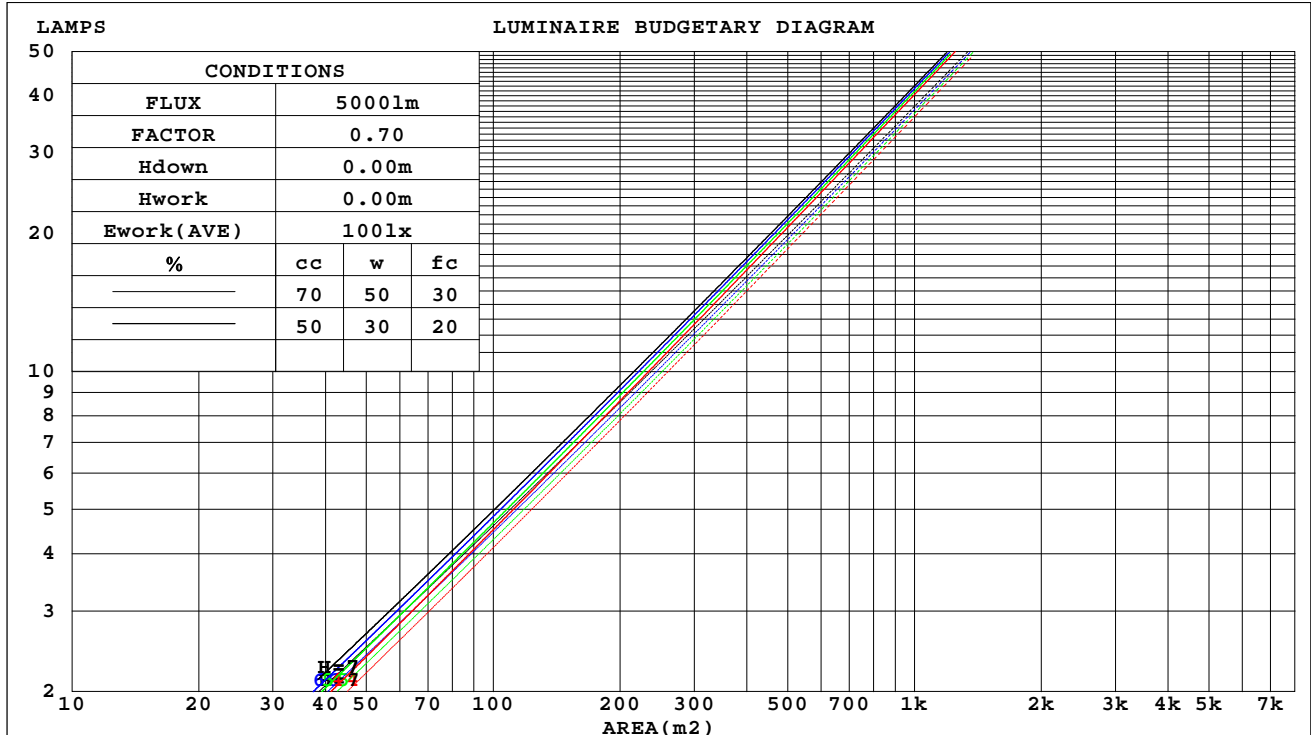
SERIAL No.: 2210191016

MFR.: RISE

SUR.: 0.001256m2

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.: 2210191016
MFR.: RISE	SUR.: 0.001256m2	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	.093	.053	.017	.088	.050	.016	.080	.046	.015	.072	.041	.013	.065	.038	.012	
2.0	.086	.047	.014	.082	.045	.014	.075	.042	.013	.069	.038	.012	.063	.035	.011	
3.0	.080	.042	.013	.077	.041	.012	.071	.038	.012	.065	.036	.011	.060	.033	.010	
4.0	.074	.039	.011	.072	.038	.011	.067	.035	.011	.062	.033	.010	.058	.032	.010	
5.0	.070	.036	.010	.068	.035	.010	.063	.033	.010	.060	.031	.009	.056	.030	.009	
6.0	.066	.033	.009	.064	.032	.009	.060	.031	.009	.057	.030	.009	.054	.028	.008	
7.0	.062	.031	.009	.061	.030	.009	.057	.029	.008	.055	.028	.008	.052	.027	.008	
8.0	.059	.029	.008	.058	.028	.008	.055	.027	.008	.052	.027	.008	.050	.026	.007	
9.0	.056	.027	.008	.055	.027	.008	.053	.026	.007	.050	.025	.007	.048	.025	.007	
10.0	.054	.026	.007	.053	.025	.007	.051	.025	.007	.049	.024	.007	.047	.023	.007	

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	.130	.130	.130	.111	.111	.111	.076	.076	.076	.044	.044	.044	.014	.014	.014	
1.0	.115	.108	.101	.098	.092	.087	.067	.064	.060	.039	.037	.035	.012	.012	.011	
2.0	.103	.091	.081	.088	.078	.070	.060	.054	.049	.035	.031	.029	.011	.010	.009	
3.0	.092	.077	.066	.079	.067	.057	.054	.046	.040	.031	.027	.024	.010	.009	.008	
4.0	.084	.067	.054	.072	.058	.047	.049	.040	.033	.029	.024	.020	.009	.008	.006	
5.0	.076	.058	.045	.065	.051	.039	.045	.035	.028	.026	.021	.017	.008	.007	.005	
6.0	.070	.052	.038	.060	.045	.033	.042	.031	.024	.024	.018	.014	.008	.006	.005	
7.0	.065	.046	.033	.056	.040	.029	.038	.028	.020	.022	.016	.012	.007	.005	.004	
8.0	.060	.041	.028	.052	.036	.025	.036	.025	.017	.021	.015	.010	.007	.005	.003	
9.0	.056	.037	.025	.048	.032	.021	.034	.023	.015	.020	.013	.009	.006	.004	.003	
10.0	.053	.034	.022	.045	.030	.019	.032	.021	.013	.018	.012	.008	.006	.004	.003	

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LENS:PM-1084 15R
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30minutes warm-up

UGR(Unified Glare Rating) Table

Test:U:18.692V I:0.4998A P:9.3422W PF:1.0000 Freq:59.98Hz Lamp Flux:919.82x1 lm										
NAME: 2118.564-LEA-09B					TYPE:			WEIGHT:		
SPEC.: 3000K					DIM.:			SERIAL No.: 2210191016		
MFR.: RISE					SUR.: 0.001256m2			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	12.3	12.9	12.5	13.1	13.2	12.5	13.2	12.7	13.3	13.5
3H	12.5	13.1	12.7	13.2	13.4	12.8	13.4	13.0	13.6	13.7
4H	12.5	13.1	12.7	13.3	13.5	12.8	13.4	13.1	13.6	13.8
6H	12.5	13.0	12.8	13.3	13.5	12.8	13.4	13.1	13.6	13.8
8H	12.5	13.0	12.8	13.2	13.5	12.8	13.4	13.1	13.6	13.8
12H	12.5	13.0	12.8	13.2	13.5	12.8	13.3	13.1	13.6	13.8
4H 2H	12.5	13.0	12.7	13.2	13.4	12.7	13.2	12.9	13.4	13.7
3H	12.7	13.2	13.0	13.4	13.7	13.0	13.5	13.3	13.7	14.0
4H	12.7	13.2	13.1	13.5	13.8	13.0	13.5	13.4	13.8	14.1
6H	12.8	13.2	13.1	13.5	13.8	13.1	13.5	13.4	13.8	14.1
8H	12.7	13.1	13.1	13.5	13.8	13.1	13.5	13.5	13.8	14.2
12H	12.7	13.1	13.1	13.4	13.8	13.1	13.4	13.5	13.8	14.2
8H 4H	12.7	13.0	13.0	13.4	13.8	13.0	13.3	13.3	13.7	14.0
6H	12.7	13.0	13.1	13.4	13.8	13.0	13.4	13.5	13.7	14.2
8H	12.7	13.0	13.2	13.4	13.9	13.1	13.3	13.5	13.8	14.2
12H	12.7	13.0	13.2	13.4	13.9	13.1	13.3	13.5	13.8	14.2
12H 4H	12.6	13.0	13.0	13.3	13.7	12.9	13.3	13.3	13.6	14.0
6H	12.7	13.0	13.1	13.4	13.8	13.0	13.3	13.4	13.7	14.1
8H	12.7	13.0	13.2	13.4	13.9	13.0	13.3	13.5	13.7	14.2
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 1.5 / - 1.7					+ 1.5 / - 1.5				
1.5H	+ 2.9 / - 1.8					+ 3.0 / - 1.8				
2.0H	+ 0.3 / - 0.7					+ 0.3 / - 0.9				

CIE Pub.117, 919.8 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.3)
Area: 0.001256 m2

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UTILIZATION FACTORS TABLE

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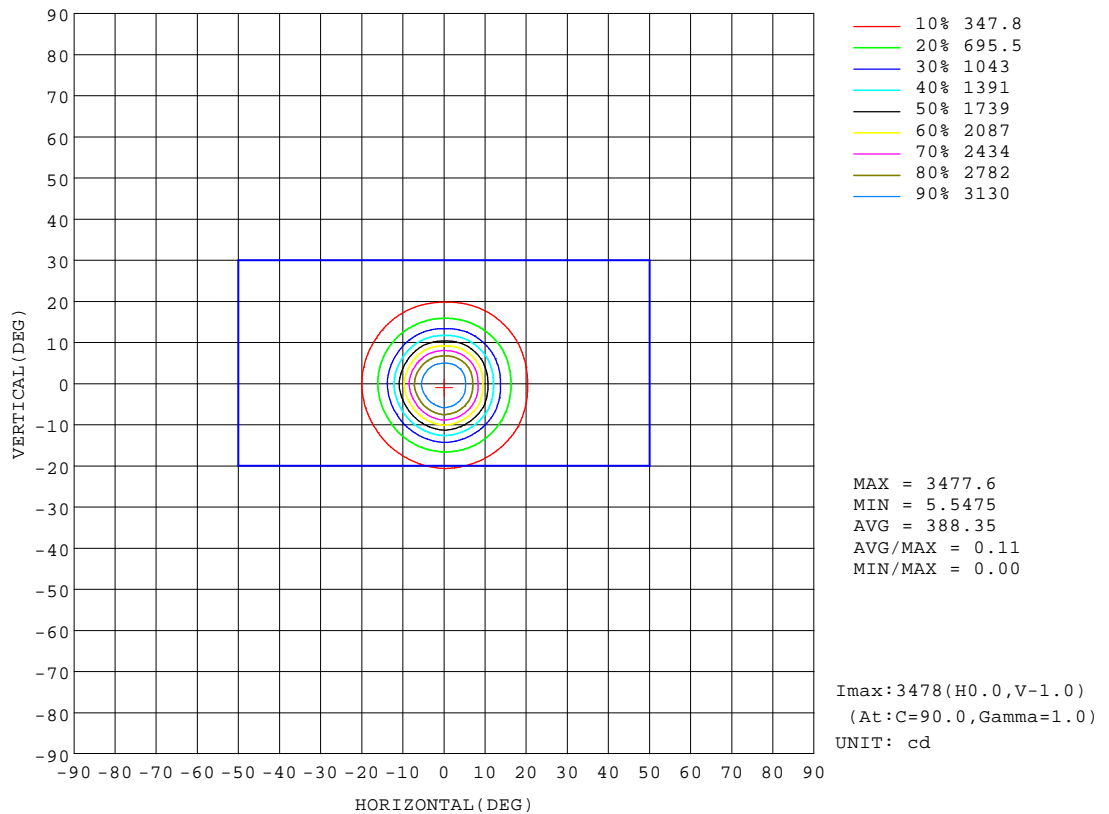
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	61	57	55	61	57	55	61	57	55	53
0.80	66	63	60	66	62	60	65	62	60	57
1.00	69	65	63	68	65	63	67	65	63	60
1.25	71	68	66	71	68	66	69	67	65	62
1.50	73	70	68	72	70	68	71	69	67	64
2.00	75	72	70	74	71	69	72	70	68	65
2.50	76	73	71	75	73	71	73	71	70	66
3.00	77	75	73	76	74	72	73	72	71	66
4.00	78	76	75	77	75	74	74	73	72	67
5.00	79	78	76	77	76	75	75	74	73	68
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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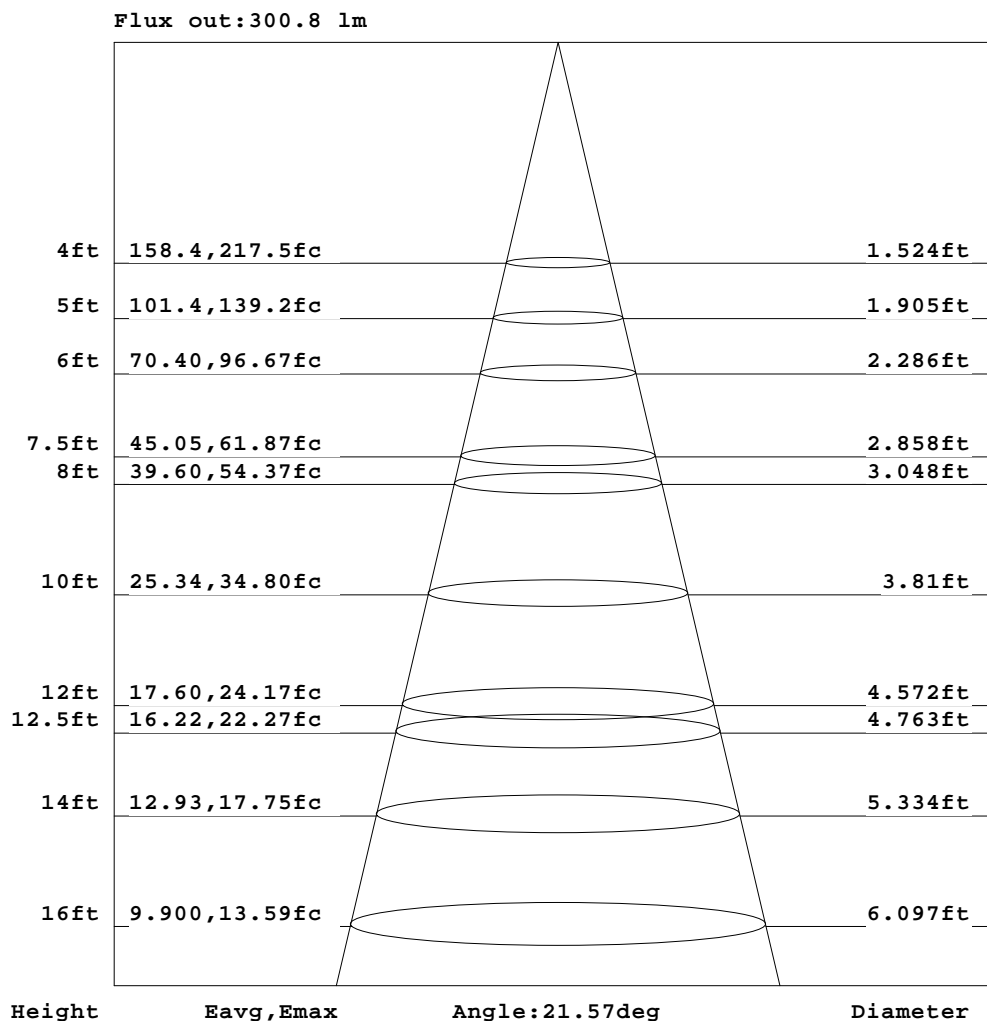


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AAI Figure

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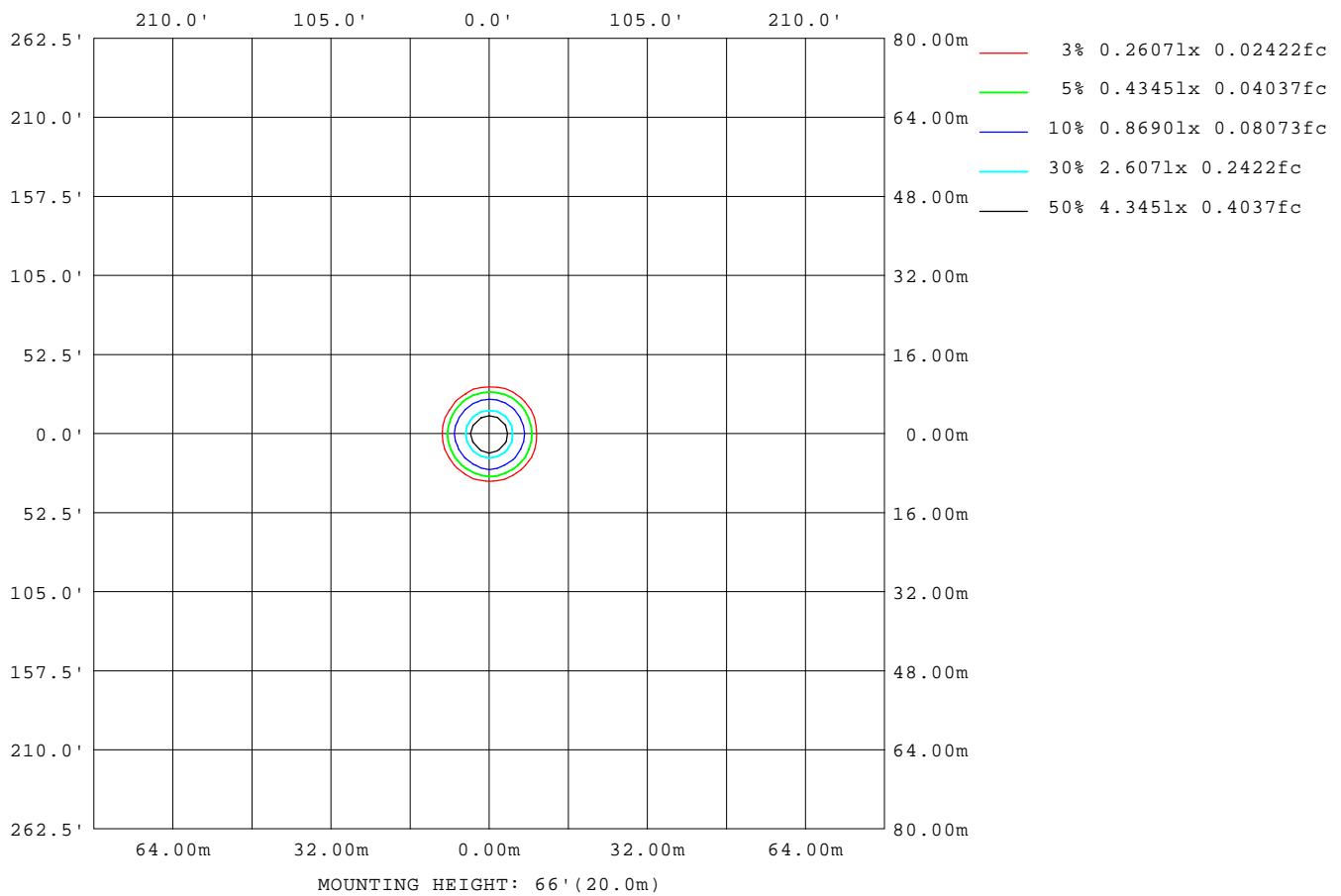
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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Remarks: LAMP:CMA1306-0000-000F0U0A30G Ra:90
LENS:PM-1084 15R
NO DRIVER:500mA
30minutes warm-up

LED Avg.L Report

Test:U:18.692V I:0.4998A P:9.3422W PF:1.0000 Freq:59.98Hz Lamp Flux:919.82x1 lm		
NAME: 2118.564-LEA-09B	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2210191016
MFR.: RISE	SUR.: 0.001256m2	Shielding Angle:

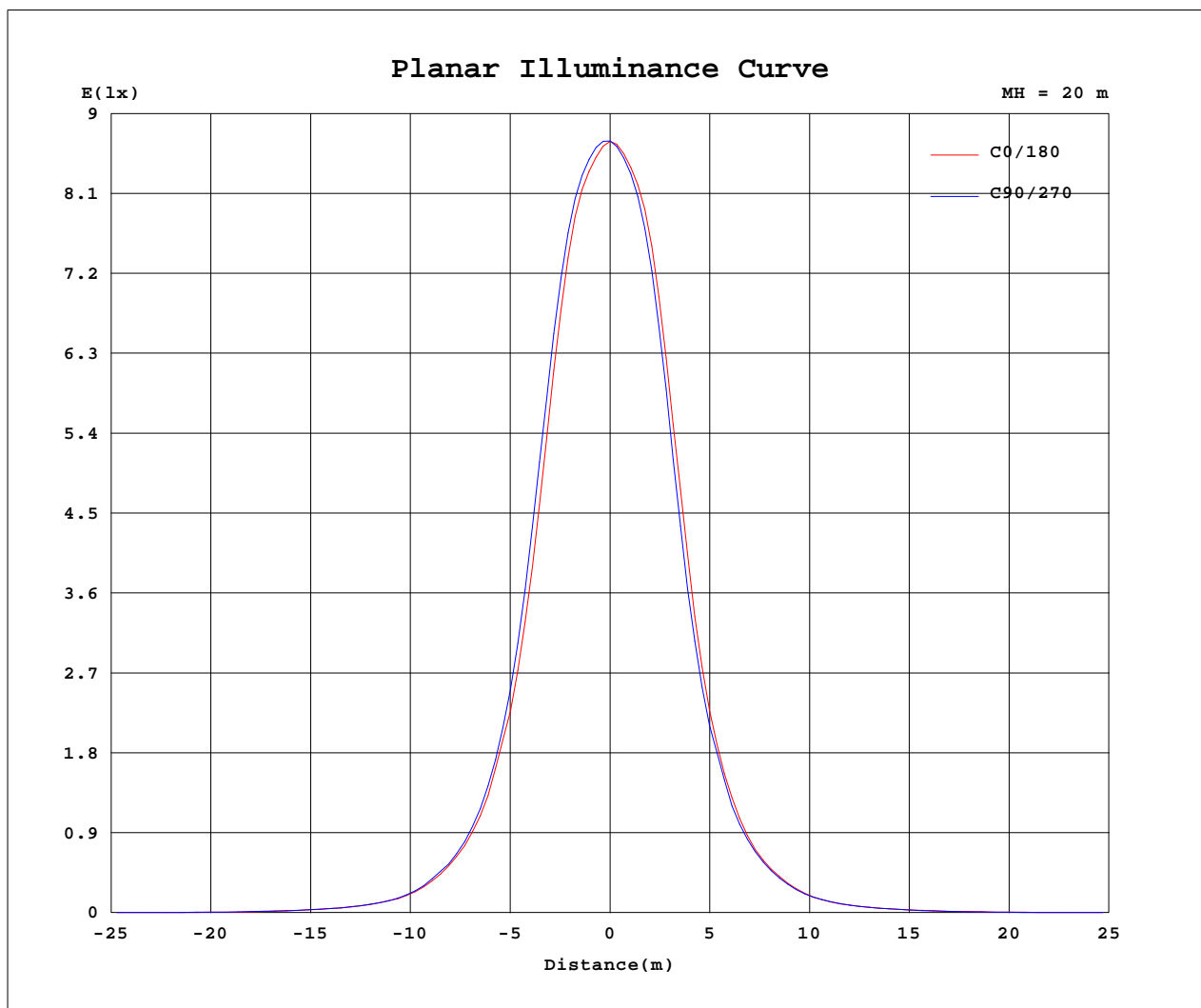
AvgL	cd/m2
L_0~180(65)av	6298
L_0~180(75)av	2769
L_0~180(85)av	2129
L_90~270(65)av	6233
L_90~270(75)av	2777
L_90~270(85)av	2137
L_45(65)av	6257
L_45(75)av	2744
L_45(85)av	2013

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:Zoe
Test Date:2022-10-19

Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.416
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:CMA1306-0000-000F0U0A30G Ra:90
LENS:PM-1084 15R
NO DRIVER:500mA
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: 2022-10-19

Range: 0 - 180DEG
 Interval: 1.0DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.416
 Humidity: 65.0%
 Test Distance: 3.160m [K=1.0000]
 Remarks: LAMP: CMA1306-0000-000F0U0A30G Ra:90
 LENS: PM-1084 15R
 NO DRIVER: 500mA
 30minutes warm-up



LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:18.692V I:0.4998A P:9.3422W PF:1.0000 Freq:59.98Hz Lamp Flux:919.82x1 lm		
NAME: 2118.564-LEA-09B	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2210191016
MFR.: RISE	SUR.: 0.001256m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	3478	3478	3478	3478	3478	3478	3478	3478	3478	3478	3478	3478						
5	3175	3222	3241	3256	3214	3192	3208	3161	3144	3120	3161	3186						
10	1925	2052	2070	2125	2009	1952	1998	1888	1885	1826	1929	1963						
15	866	901	907	927	883	822	842	824	801	801	836	880						
20	367	391	386	389	355	338	346	331	336	333	360	371						
25	159	169	164	165	152	145	146	138	141	142	157	161						
30	71.1	71.2	72.1	70.5	68.3	63.8	62.7	59.3	61.2	63.6	69.4	72.8						
35	35.3	36.2	35.7	36.1	34.1	33.2	33.3	31.5	32.2	32.8	35.1	35.9						
40	17.2	18.5	18.1	18.9	17.7	17.7	18.2	17.0	17.2	16.8	17.8	17.6						
45	8.64	8.56	8.89	8.81	8.90	8.66	8.96	9.03	8.70	8.91	8.31	8.84						
50	6.62	6.70	6.76	6.91	6.98	7.13	7.28	7.30	7.29	7.12	6.81	6.72						
55	5.71	5.76	5.90	6.13	6.30	6.44	6.60	6.62	6.52	6.32	6.00	5.84						
60	4.77	4.83	5.02	5.30	5.47	5.56	5.71	5.72	5.60	5.32	5.07	4.91						
65	2.82	3.02	3.22	3.56	3.63	3.70	3.86	3.66	3.41	3.06	3.01	2.93						
70	1.31	1.37	1.43	1.49	1.48	1.47	1.47	1.40	1.35	1.30	1.30	1.31						
75	0.85	0.89	0.92	0.97	0.96	0.95	0.95	0.90	0.86	0.83	0.83	0.83						
80	0.48	0.51	0.54	0.57	0.56	0.56	0.57	0.52	0.49	0.47	0.47	0.47						
85	0.20	0.21	0.23	0.27	0.25	0.25	0.27	0.23	0.21	0.20	0.19	0.19						
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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