

Luminaire Photograph



Light Output Ratio:	74.9%	
Luminaire Power:	9.344 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

γ Range: 0 - 180DEG
 γ 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-1084A 24R
NO DRIVER: 500mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

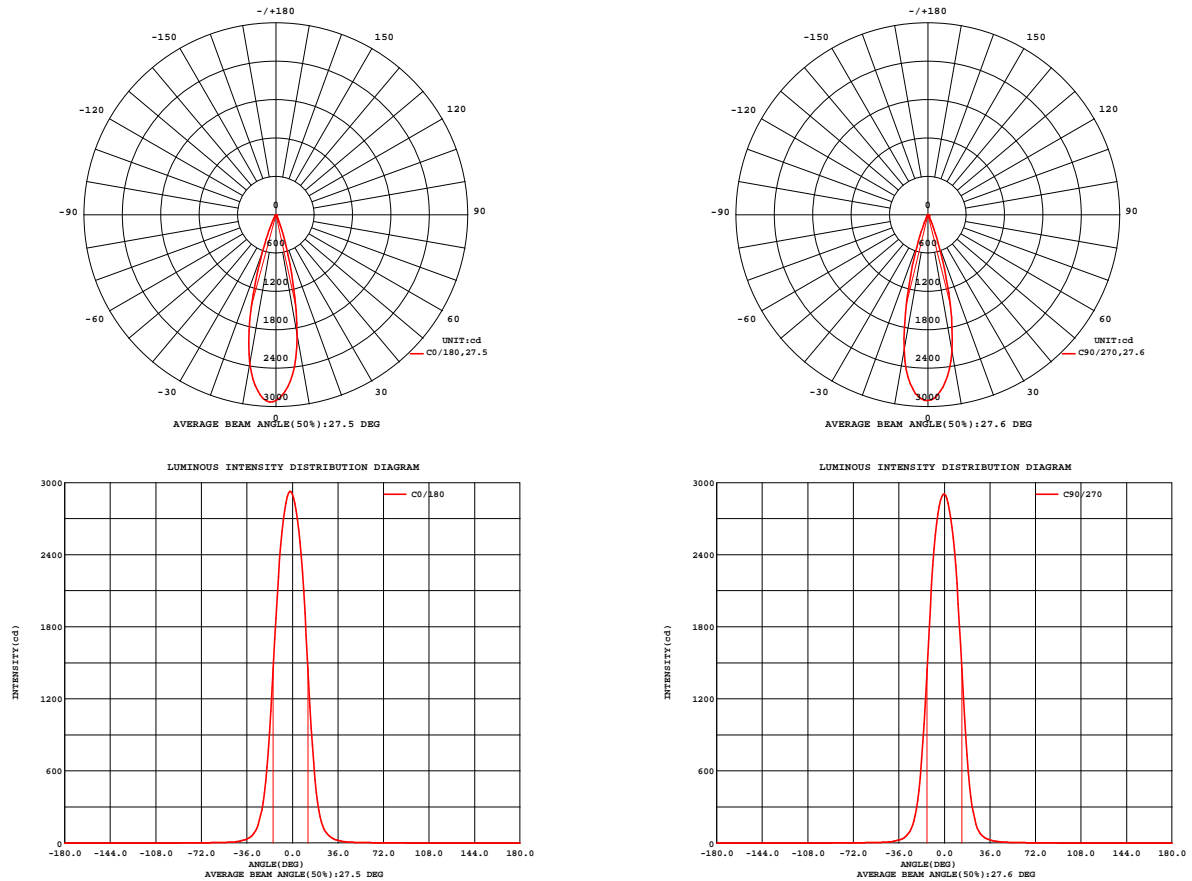


Fig. C0/C180

Fig. C90/C270

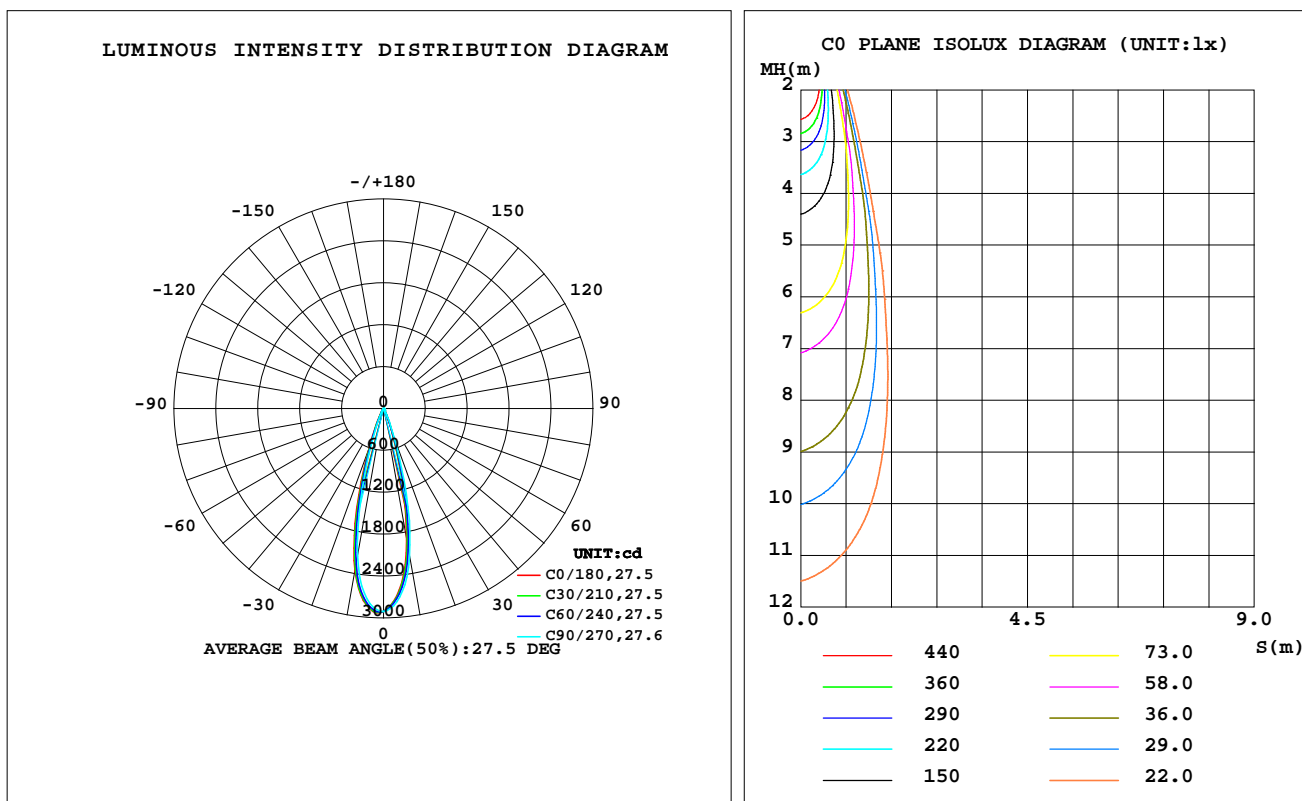
C Range: 0 - 360DEG
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Test Speed: HIGH
Temperature:25.3℃
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LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:18.694V I:0.4998A P:9.3435W PF:1.0000 Freq:59.98Hz Lamp Flux:919.82x1 lm		
NAME: 2118.564-LEA-09B	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2210191017
MFR.: RISE	SUR.: 0.001256m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 73.75 lm/W			
MODEL	CREE	I _{max} (cd)	2927	S/MH(C0/180)	0.47
NOMINAL POWER(W)	9	LOR(%)	74.9	S/MH(C90/270)	0.44
RATED VOLTAGE(V)	18	TOTAL FLUX(lm)	689.11	η UP,DN(C0-180)	0.0,36.4
NOMINAL FLUX(lm)	919.82	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,38.5
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	18	η down(%)	74.9	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	1913	2009	2163	2253	2364	2298	2151	2038	0- 10	241.8	241.8	35.1,26.3
20	336.7	383.9	474.9	546.3	629.0	549.3	438.6	387.0	10- 20	328.4	570.2	82.7,62
30	50.68	52.90	59.24	74.14	84.15	72.32	57.82	54.19	20- 30	85.20	655.4	95.1,71.3
40	12.53	13.75	15.80	17.84	19.76	17.07	14.21	13.53	30- 40	20.13	675.5	98,73.4
50	4.860	5.148	5.672	5.986	5.992	5.497	5.025	4.910	40- 50	6.769	682.3	99,74.2
60	3.237	3.451	3.679	3.653	3.591	3.349	3.233	3.257	50- 60	3.795	686.1	99.6,74.6
70	0.9237	0.9639	1.017	1.019	1.028	0.9755	0.9378	0.9321	60- 70	2.126	688.2	99.9,74.8
80	0.3360	0.3520	0.3925	0.3962	0.4203	0.3843	0.3604	0.3390	70- 80	0.6822	688.9	100,74.9
90	0	0	0	0	0	0	0	0	80- 90	0.1885	689.1	100,74.9
100	0	0	0	0	0	0	0	0	90-100	0	689.1	100,74.9
110	0	0	0	0	0	0	0	0	100-110	0	689.1	100,74.9
120	0	0	0	0	0	0	0	0	110-120	0	689.1	100,74.9
130	0	0	0	0	0	0	0	0	120-130	0	689.1	100,74.9
140	0	0	0	0	0	0	0	0	130-140	0	689.1	100,74.9
150	0	0	0	0	0	0	0	0	140-150	0	689.1	100,74.9
160	0	0	0	0	0	0	0	0	150-160	0	689.1	100,74.9
170	0	0	0	0	0	0	0	0	160-170	0	689.1	100,74.9
180	0	0	0	0	0	0	0	0	170-180	0	689.1	100,74.9
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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 NO DRIVER:500mA
 30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:18.694V I:0.4998A P:9.3435W PF:1.0000 Freq:59.98Hz
Lamp Flux:919.82x1 lm

NAME: 2118.564-LEA-09B

TYPE:

WEIGHT:

SPEC.: 3000K

DIM.:

SERIAL No.: 2210191017

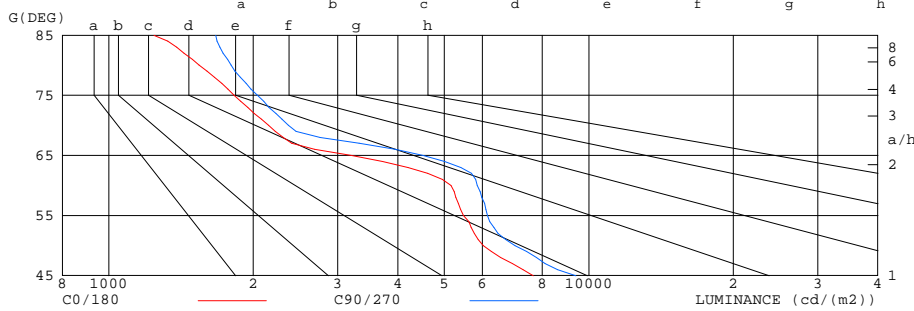
MFR.: RISE

SUR.: 0.001256m2

Shielding Angle:

LUMINANCE LIMITATION CURVES

GLARE	CLASS	ILLUMINANCE (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300



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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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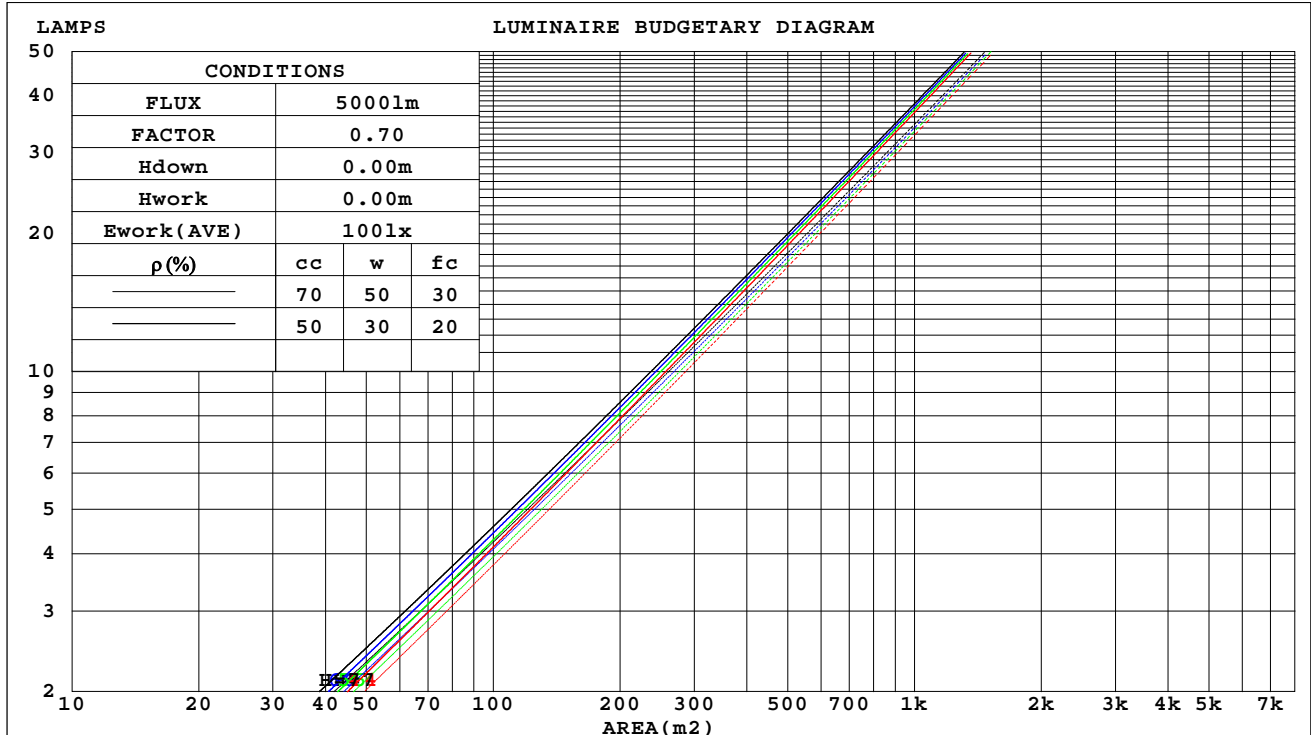
SERIAL No.: 2210191017

MFR.: RISE

SUR.: 0.001256m2

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.: 2210191017
MFR.: RISE	SUR.: 0.001256m2	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	.103	.058	.018	.098	.056	.018	.088	.051	.016	.080	.046	.015	.072	.042	.013	
2.0	.095	.052	.016	.091	.050	.015	.083	.046	.014	.076	.043	.013	.070	.039	.012	
3.0	.088	.047	.014	.085	.046	.014	.079	.043	.013	.073	.040	.012	.067	.037	.012	
4.0	.083	.043	.013	.080	.042	.012	.075	.040	.012	.070	.037	.011	.065	.035	.011	
5.0	.078	.040	.011	.075	.039	.011	.071	.037	.011	.067	.035	.010	.063	.033	.010	
6.0	.074	.037	.011	.071	.036	.010	.068	.035	.010	.064	.033	.010	.060	.032	.009	
7.0	.070	.035	.010	.068	.034	.010	.065	.033	.009	.061	.031	.009	.058	.030	.009	
8.0	.066	.032	.009	.065	.032	.009	.062	.031	.009	.059	.030	.009	.056	.029	.008	
9.0	.064	.031	.009	.062	.030	.008	.059	.029	.008	.057	.029	.008	.055	.028	.008	
10.0	.061	.029	.008	.060	.029	.008	.057	.028	.008	.055	.027	.008	.053	.027	.008	

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	.143	.143	.143	.122	.122	.122	.083	.083	.083	.048	.048	.048	.015	.015	.015	
1.0	.126	.118	.111	.108	.101	.095	.074	.070	.066	.042	.040	.038	.014	.013	.012	
2.0	.113	.099	.088	.096	.086	.076	.066	.059	.053	.038	.034	.031	.012	.011	.010	
3.0	.101	.085	.072	.087	.073	.062	.060	.051	.044	.034	.030	.026	.011	.010	.008	
4.0	.092	.073	.059	.079	.063	.051	.054	.044	.036	.031	.026	.021	.010	.008	.007	
5.0	.084	.064	.049	.072	.055	.043	.050	.039	.030	.029	.023	.018	.009	.007	.006	
6.0	.077	.057	.042	.066	.049	.036	.046	.034	.026	.027	.020	.015	.009	.007	.005	
7.0	.072	.050	.036	.062	.044	.031	.043	.031	.022	.025	.018	.013	.008	.006	.004	
8.0	.067	.045	.031	.057	.039	.027	.040	.028	.019	.023	.016	.011	.007	.005	.004	
9.0	.062	.041	.027	.054	.036	.023	.037	.025	.017	.022	.015	.010	.007	.005	.003	
10.0	.059	.038	.023	.051	.033	.020	.035	.023	.015	.020	.014	.009	.007	.004	.003	

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UGR(Unified Glare Rating) Table

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NAME: 2118.564-LEA-09B					TYPE:			WEIGHT:		
SPEC.: 3000K					DIM.:			SERIAL No.: 2210191017		
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	9.7	10.3	9.9	10.5	10.6	10.3	11.0	10.5	11.1	11.3
3H	9.8	10.4	10.0	10.6	10.8	10.5	11.1	10.8	11.3	11.5
4H	9.8	10.4	10.1	10.6	10.8	10.5	11.1	10.8	11.3	11.5
6H	9.8	10.4	10.1	10.6	10.8	10.5	11.1	10.8	11.3	11.5
8H	9.8	10.3	10.1	10.6	10.8	10.5	11.0	10.8	11.3	11.5
12H	9.8	10.3	10.1	10.6	10.8	10.5	11.0	10.8	11.3	11.5
4H 2H	9.8	10.4	10.1	10.6	10.8	10.4	11.0	10.7	11.2	11.4
3H	10.0	10.5	10.3	10.7	11.0	10.6	11.1	10.9	11.4	11.6
4H	10.0	10.5	10.4	10.8	11.1	10.7	11.1	11.0	11.4	11.7
6H	10.0	10.5	10.4	10.8	11.1	10.7	11.1	11.0	11.4	11.8
8H	10.0	10.4	10.4	10.8	11.1	10.7	11.1	11.1	11.4	11.8
12H	10.0	10.4	10.4	10.7	11.1	10.7	11.0	11.1	11.4	11.8
8H 4H	10.0	10.3	10.3	10.7	11.0	10.6	11.0	11.0	11.3	11.7
6H	10.0	10.3	10.4	10.7	11.1	10.6	10.9	11.0	11.3	11.7
8H	10.0	10.3	10.5	10.7	11.1	10.6	10.9	11.1	11.3	11.8
12H	10.0	10.2	10.5	10.7	11.2	10.6	10.9	11.1	11.3	11.8
12H 4H	9.9	10.3	10.3	10.6	11.0	10.5	10.9	10.9	11.2	11.6
6H	10.0	10.3	10.4	10.7	11.1	10.6	10.9	11.0	11.3	11.7
8H	10.0	10.2	10.4	10.7	11.1	10.6	10.8	11.1	11.3	11.8
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 1.4 / - 1.7					+ 1.7 / - 1.8				
1.5H	+ 2.7 / - 1.3					+ 3.3 / - 1.7				
2.0H	+ 0.9 / - 0.9					+ 1.3 / - 1.1				

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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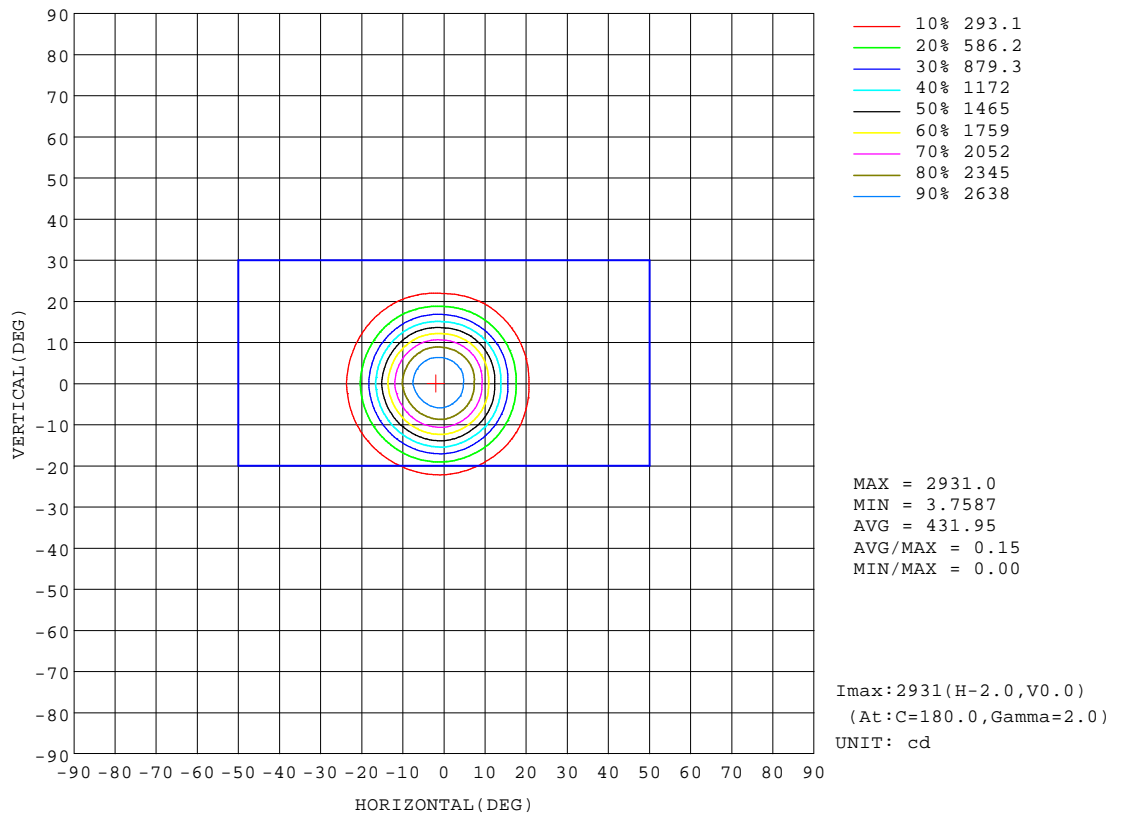
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	68	63	61	67	63	61	67	63	61	58
0.80	73	69	66	72	69	66	72	68	66	64
1.00	76	72	70	75	72	69	74	71	69	66
1.25	79	75	73	78	75	72	76	74	72	69
1.50	80	77	75	79	77	75	78	76	74	71
2.00	82	79	77	81	78	76	79	77	75	72
2.50	83	81	79	82	80	78	80	78	76	72
3.00	84	82	80	83	81	79	80	79	78	73
4.00	86	84	82	84	83	81	82	80	79	74
5.00	87	85	84	85	84	83	82	81	80	75
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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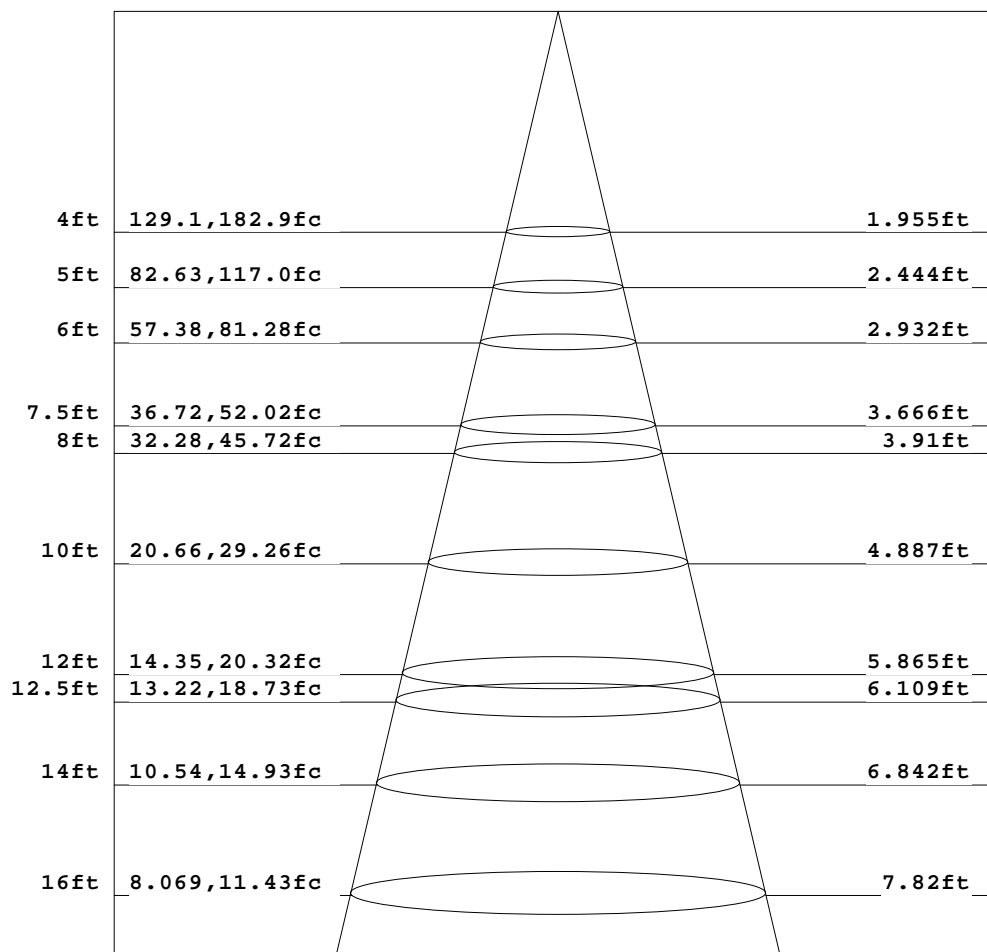
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AAI Figure

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Flux out:403.4 lm



Height Eavg, Emax Angle:27.46deg Diameter

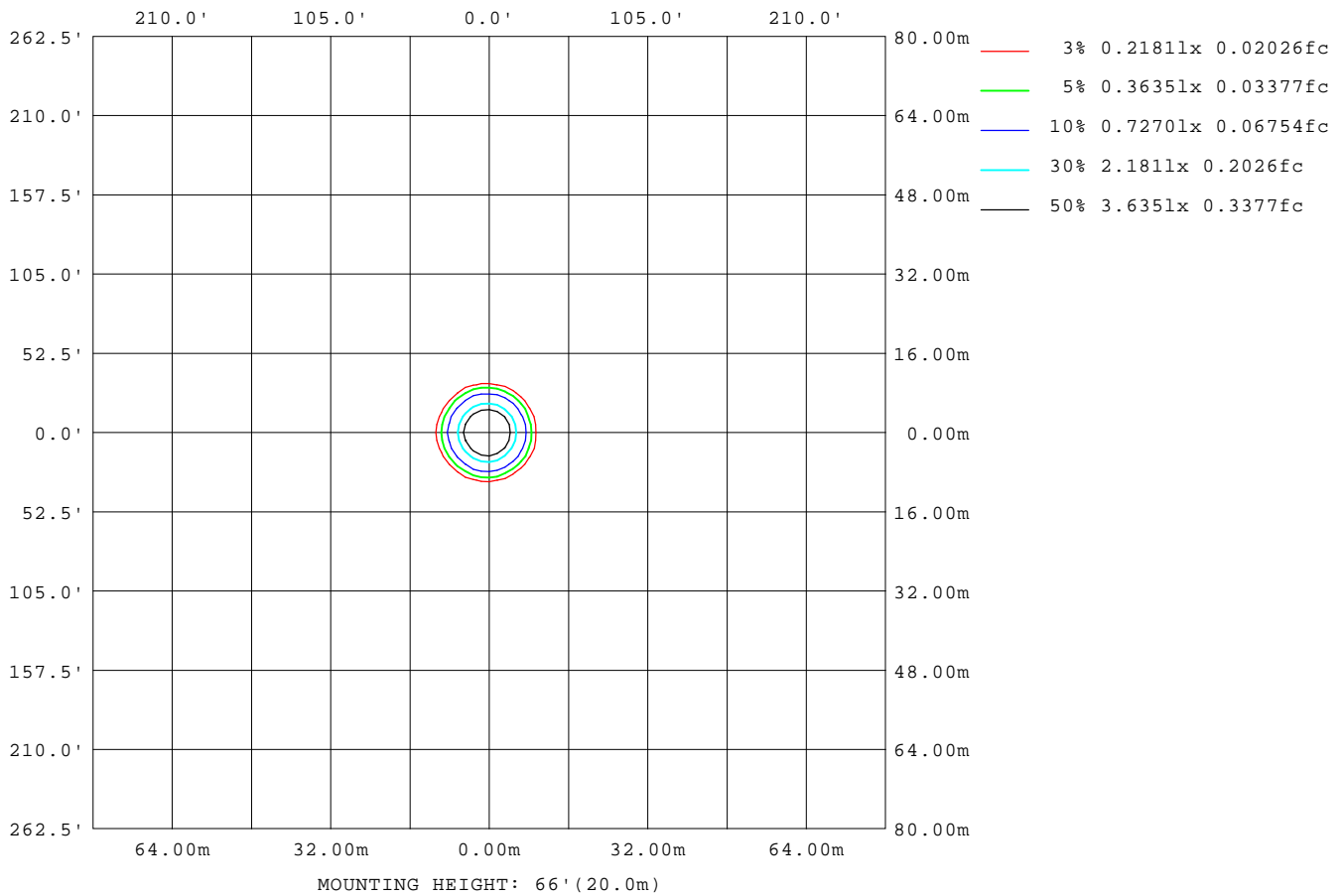
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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MFR.: RISE	SUR.: 0.001256m2	Shielding Angle:



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Temperature: 25.3 °C
Operators: Zoe
Test Date: 2022-10-19

γ Range: 0 - 180DEG
γ 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-1084A 24R
NO DRIVER: 500mA
30minutes warm-up

LED Avg.L Report

Test:U:18.694V I:0.4998A P:9.3435W PF:1.0000 Freq:59.98Hz Lamp Flux:919.82x1 lm		
NAME: 2118.564-LEA-09B	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2210191017
MFR.: RISE	SUR.: 0.001256m2	Shielding Angle:

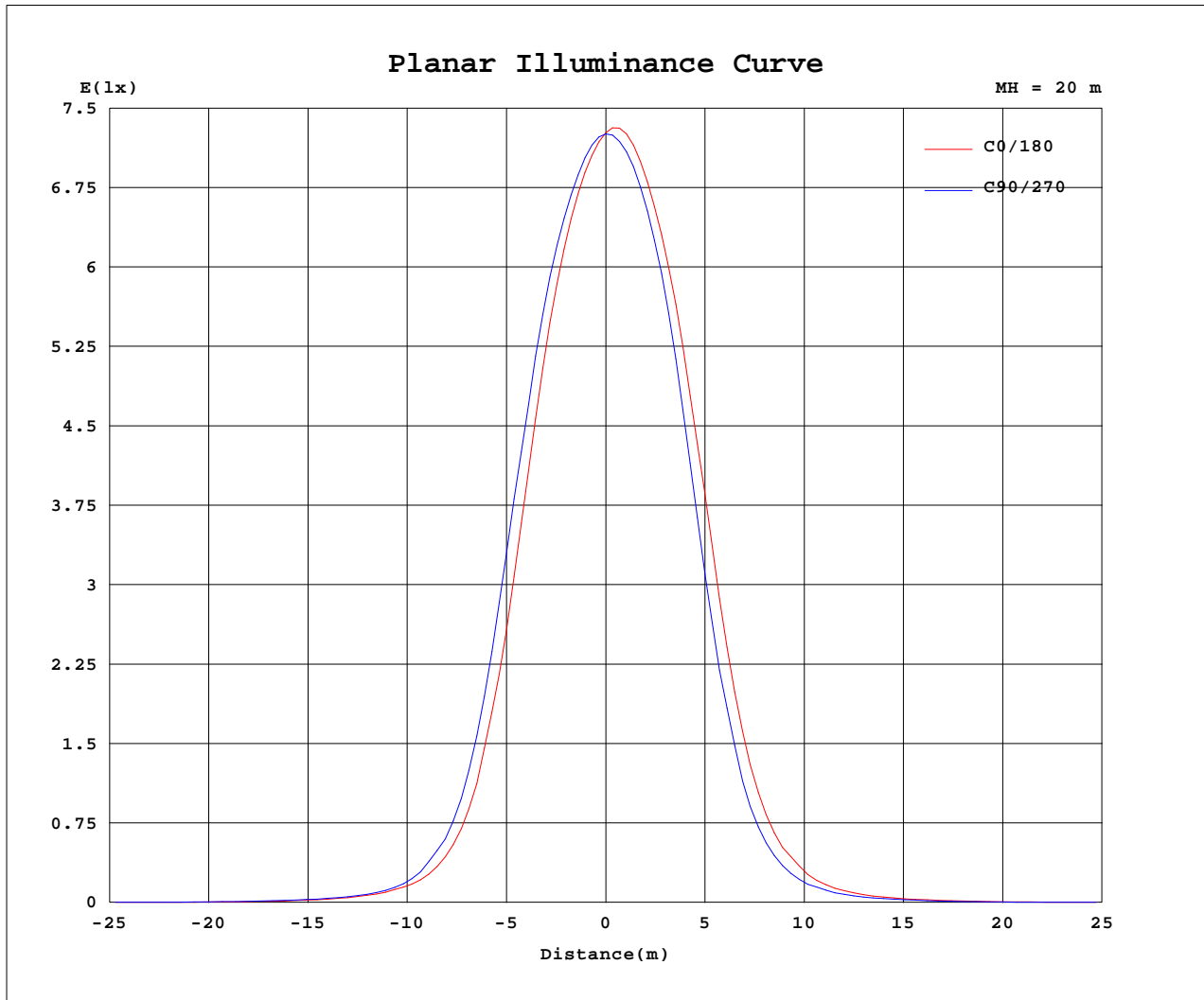
AvgL	cd/m2
L_0~180(65)av	4045
L_0~180(75)av	1967
L_0~180(85)av	1582
L_90~270(65)av	4092
L_90~270(75)av	1965
L_90~270(85)av	1559
L_45(65)av	4047
L_45(75)av	1940
L_45(85)av	1467

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

γ Range: 0 - 180DEG
γ 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-1084A 24R
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

γ Range: 0 - 180DEG
 γ 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-1084A 24R
 NO DRIVER: 500mA
 30minutes warm-up

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:18.694V I:0.4998A P:9.3435W PF:1.0000 Freq:59.98Hz Lamp Flux:919.82x1 lm		
NAME: 2118.564-LEA-09B	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2210191017
MFR.: RISE	SUR.: 0.001256m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	2905	2905	2905	2905	2905	2905	2905	2905	2905	2905	2905	2905						
5	2609	2629	2658	2704	2742	2778	2827	2816	2791	2735	2693	2656						
10	1913	1964	2054	2163	2221	2286	2364	2327	2268	2151	2077	1998						
15	956	1025	1107	1258	1326	1409	1492	1408	1320	1174	1112	1036						
20	337	369	399	475	517	576	629	572	527	439	407	368						
25	116	126	132	155	173	208	232	202	190	148	135	124						
30	50.7	52.8	53.0	59.2	70.9	77.4	84.2	78.6	66.1	57.8	55.6	52.8						
35	24.5	25.7	26.4	29.4	32.5	35.5	38.0	35.1	31.1	27.8	26.9	25.5						
40	12.5	13.3	14.2	15.8	17.0	18.7	19.8	17.9	16.2	14.2	14.1	13.0						
45	6.80	7.07	7.61	8.35	9.46	8.95	9.15	8.44	7.56	7.06	7.79	6.86						
50	4.86	4.99	5.31	5.67	5.99	5.98	5.99	5.67	5.33	5.03	4.91	4.91						
55	3.95	4.09	4.28	4.43	4.46	4.47	4.48	4.21	4.04	3.92	3.88	3.93						
60	3.24	3.37	3.53	3.68	3.67	3.63	3.59	3.40	3.29	3.23	3.25	3.26						
65	1.69	1.86	2.10	2.39	2.49	2.57	2.60	2.39	2.19	1.95	1.83	1.76						
70	0.92	0.95	0.98	1.02	1.02	1.02	1.03	0.99	0.96	0.94	0.93	0.93						
75	0.59	0.60	0.63	0.66	0.67	0.67	0.69	0.66	0.63	0.61	0.60	0.59						
80	0.34	0.34	0.36	0.39	0.39	0.40	0.42	0.39	0.38	0.36	0.34	0.34						
85	0.14	0.14	0.15	0.18	0.18	0.19	0.21	0.18	0.17	0.16	0.14	0.13						
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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