

Luminaire Photograph



Light Output Ratio:	86.3%	
Luminaire Power:	11.76 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: 2023-3-20

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-1084A 24R
DRIVER: PUP10A-1WMC-700 500mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

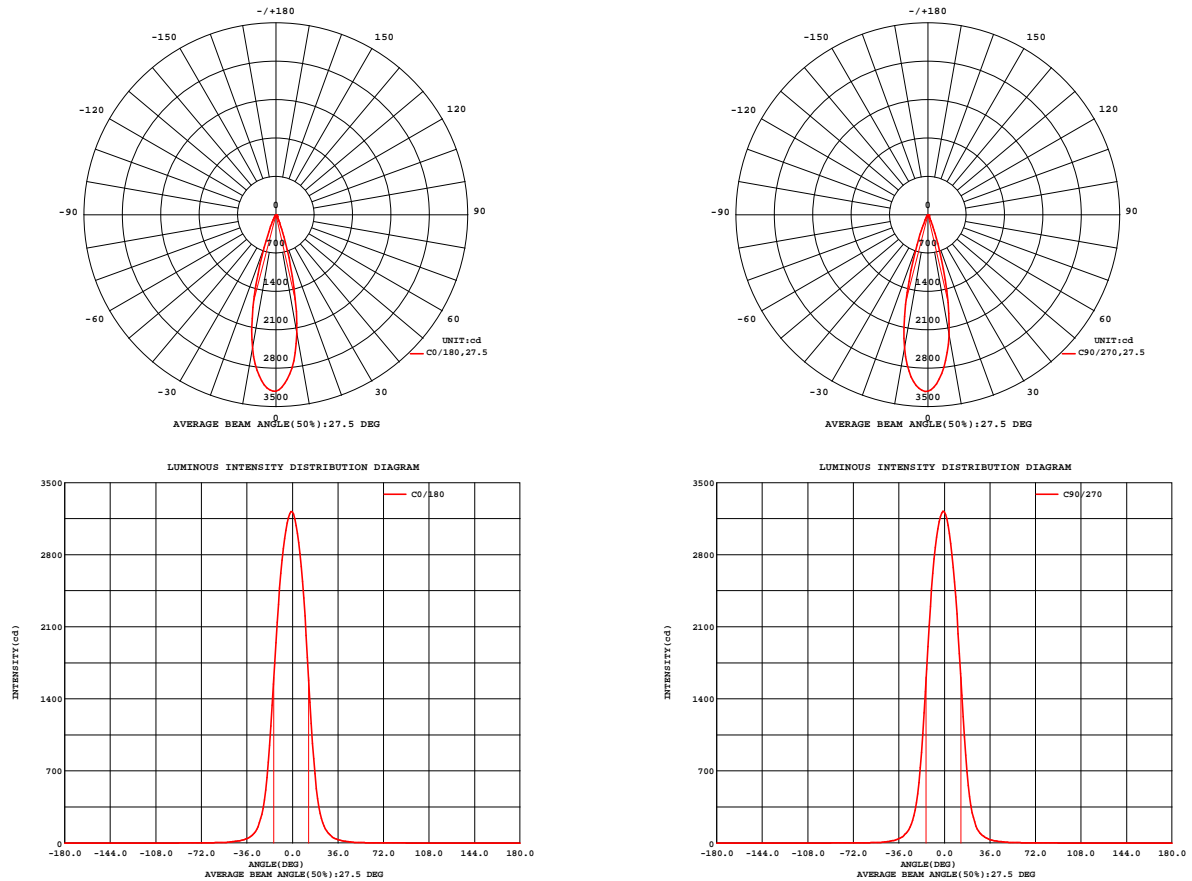


Fig. C0/C180

Fig. C90/C270

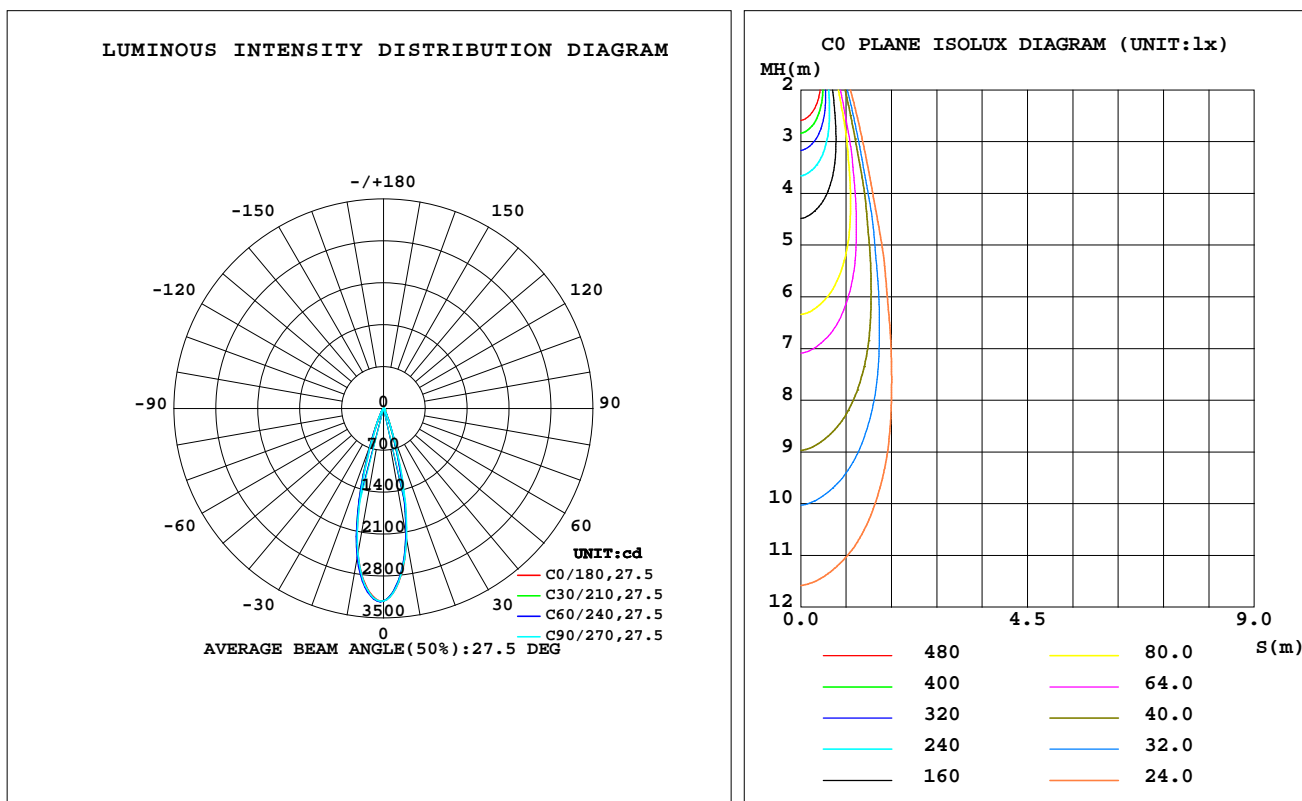
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LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.94V I:0.0990A P:11.757W PF:0.9882 Freq:59.98Hz Lamp Flux:896.707x1 lm		
NAME: 2218.510-LEA-09	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2303200339
MFR.: RISE	SUR.: 0.001589625m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 65.83 lm/W			
MODEL	CREE	I _{max} (cd)	3228	S/MH(C0/180)	0.46
NOMINAL POWER(W)	12	LOR(%)	86.3	S/MH(C90/270)	0.45
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	774.01	UP,DN(C0-180)	0.0,40.2
NOMINAL FLUX(lm)	896.707	CIE CLASS	DIRECT	UP,DN(C180-360)	0.0,46.1
LAMPS INSIDE	1	up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	120	down(%)	86.3	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	2206	2162	2225	2321	2475	2522	2465	2361	0- 10	264.0	264.0	34.1,29.4
20	429.2	412.3	448.2	521.0	637.1	660.8	587.3	516.4	10- 20	362.4	626.5	80.9,69.9
30	76.69	69.73	74.53	84.86	95.64	94.63	95.71	90.75	20- 30	100.7	727.2	94,81.1
40	20.57	20.05	21.39	24.32	26.67	25.47	24.64	23.15	30- 40	28.41	755.6	97.6,84.3
50	5.232	5.749	6.507	7.446	8.375	7.257	5.774	5.216	40- 50	10.47	766.1	99,85.4
60	2.732	2.979	3.183	3.324	3.349	3.116	2.842	2.690	50- 60	3.764	769.8	99.5,85.9
70	1.478	1.608	1.710	1.879	1.921	1.720	1.502	1.447	60- 70	2.286	772.1	99.8,86.1
80	0.8773	0.9796	1.062	1.135	1.104	0.9807	0.8870	0.8523	70- 80	1.353	773.5	99.9,86.3
90	0	0	0	0	0	0	0	0	80- 90	0.5264	774.0	100,86.3
100	0	0	0	0	0	0	0	0	90-100	0	774.0	100,86.3
110	0	0	0	0	0	0	0	0	100-110	0	774.0	100,86.3
120	0	0	0	0	0	0	0	0	110-120	0	774.0	100,86.3
130	0	0	0	0	0	0	0	0	120-130	0	774.0	100,86.3
140	0	0	0	0	0	0	0	0	130-140	0	774.0	100,86.3
150	0	0	0	0	0	0	0	0	140-150	0	774.0	100,86.3
160	0	0	0	0	0	0	0	0	150-160	0	774.0	100,86.3
170	0	0	0	0	0	0	0	0	160-170	0	774.0	100,86.3
180	0	0	0	0	0	0	0	0	170-180	0	774.0	100,86.3
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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DRIVER:PUP10A-1WMC-700 500mA
30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:119.94V I:0.0990A P:11.757W PF:0.9882 Freq:59.98Hz
Lamp Flux:896.707x1 lm

NAME: 2218.510-LEA-09

TYPE:

WEIGHT:

SPEC.: 3000K

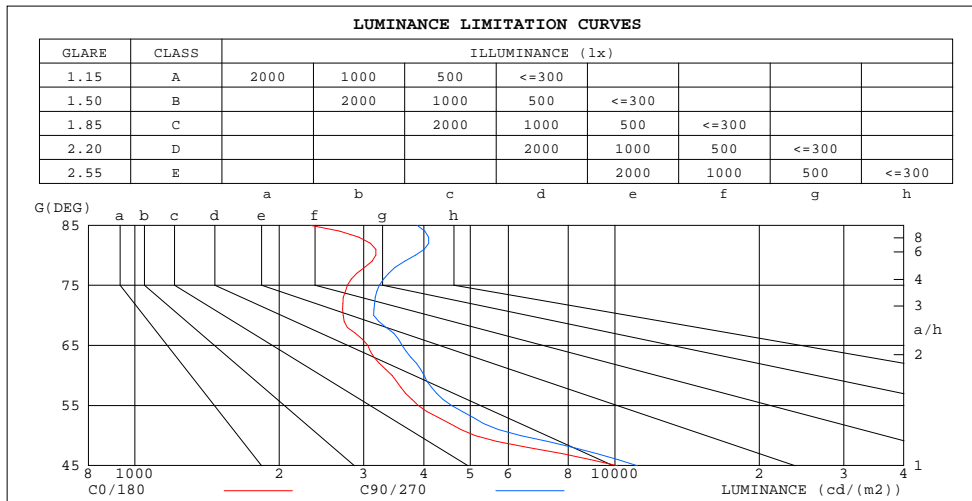
DIM.:

SERIAL No.: 2303200339

MFR.: RISE

SUR.: 0.001589625m2

Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	G(270)	
85	2324	3876
80	3180	3846
75	2771	3233
70	2719	3146
65	3058	3604
60	3439	4005
55	3901	4576
50	5123	6368
45	10130	11146

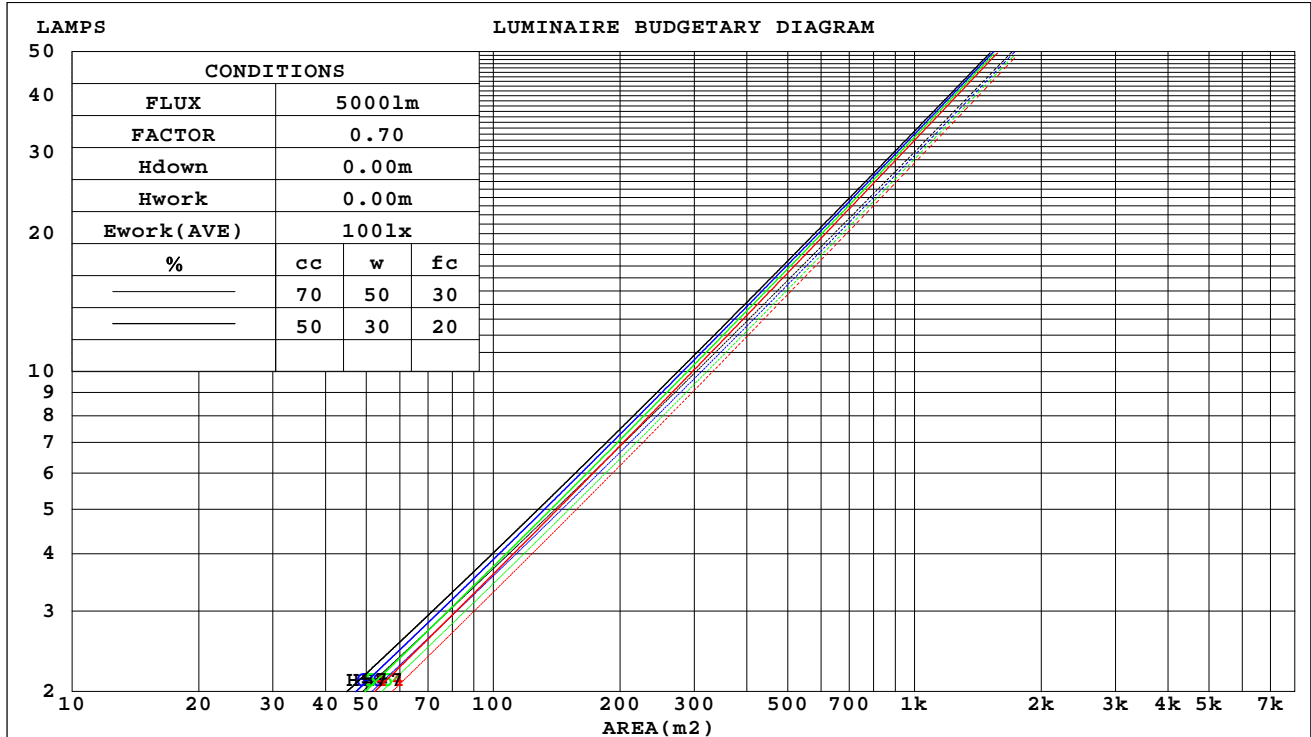
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.: 3000K	DIM.:	SERIAL No.: 2303200339
MFR.: RISE	SUR.: 0.001589625m2	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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NAME: 2218.510-LEA-09	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2303200339
MFR.: RISE	SUR.: 0.001589625m2	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	.120	.068	.022	.115	.065	.021	.104	.060	.019	.094	.054	.017	.085	.049	.016		
2.0	.111	.061	.019	.107	.059	.018	.098	.054	.017	.090	.050	.016	.082	.047	.015		
3.0	.104	.055	.017	.100	.053	.016	.092	.050	.015	.086	.047	.014	.079	.044	.014		
4.0	.097	.050	.015	.094	.049	.015	.088	.046	.014	.082	.044	.013	.076	.042	.013		
5.0	.091	.047	.013	.089	.045	.013	.083	.043	.013	.078	.041	.012	.074	.039	.012		
6.0	.086	.043	.012	.084	.042	.012	.079	.041	.012	.075	.039	.011	.071	.037	.011		
7.0	.082	.041	.012	.080	.040	.011	.076	.038	.011	.072	.037	.011	.069	.036	.011		
8.0	.078	.038	.011	.076	.038	.011	.073	.036	.010	.070	.035	.010	.066	.034	.010		
9.0	.075	.036	.010	.073	.036	.010	.070	.035	.010	.067	.034	.010	.064	.033	.009		
10.0	.072	.034	.010	.070	.034	.009	.067	.033	.009	.065	.032	.009	.062	.031	.009		

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	.164	.164	.164	.141	.141	.141	.096	.096	.096	.055	.055	.055	.018	.018	.018	
1.0	.145	.136	.128	.124	.117	.110	.085	.080	.076	.049	.046	.044	.016	.015	.014	
2.0	.130	.115	.102	.111	.099	.088	.076	.068	.061	.044	.040	.036	.014	.013	.012	
3.0	.117	.098	.082	.100	.084	.071	.069	.059	.050	.040	.034	.030	.013	.011	.010	
4.0	.106	.085	.068	.091	.073	.059	.063	.051	.042	.036	.030	.025	.012	.010	.008	
5.0	.097	.074	.057	.084	.064	.049	.058	.045	.035	.033	.026	.021	.011	.009	.007	
6.0	.090	.065	.048	.077	.057	.042	.053	.040	.030	.031	.023	.018	.010	.008	.006	
7.0	.083	.058	.041	.071	.051	.036	.049	.035	.025	.029	.021	.015	.009	.007	.005	
8.0	.077	.052	.035	.067	.045	.031	.046	.032	.022	.027	.019	.013	.009	.006	.004	
9.0	.073	.048	.031	.063	.041	.027	.043	.029	.019	.025	.017	.011	.008	.006	.004	
10.0	.068	.043	.027	.059	.038	.023	.041	.027	.017	.024	.016	.010	.008	.005	.003	

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UGR(Unified Glare Rating) Table

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SPEC.: 3000K					DIM.:			SERIAL No.: 2303200339		
MFR.: RISE					SUR.: 0.001589625m2			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	10.3	10.9	10.5	11.1	11.2	10.6	11.2	10.8	11.4	11.5
3H	10.5	11.1	10.7	11.3	11.4	10.8	11.5	11.1	11.6	11.8
4H	10.6	11.2	10.8	11.4	11.6	11.0	11.6	11.3	11.8	12.0
6H	10.8	11.3	11.0	11.5	11.8	11.2	11.8	11.5	12.0	12.2
8H	10.8	11.4	11.1	11.6	11.9	11.3	11.9	11.6	12.1	12.4
12H	10.9	11.4	11.2	11.6	11.9	11.4	11.9	11.7	12.2	12.5
4H 2H	10.3	10.8	10.5	11.1	11.3	10.6	11.1	10.8	11.4	11.6
3H	10.6	11.1	10.9	11.3	11.6	10.9	11.5	11.2	11.7	12.0
4H	10.8	11.3	11.1	11.6	11.9	11.2	11.7	11.5	12.0	12.3
6H	11.1	11.5	11.5	11.8	12.2	11.6	12.0	11.9	12.3	12.6
8H	11.2	11.6	11.6	12.0	12.3	11.8	12.1	12.1	12.5	12.9
12H	11.3	11.6	11.7	12.0	12.4	11.9	12.2	12.3	12.6	13.0
8H 4H	10.9	11.2	11.2	11.6	12.0	11.2	11.6	11.6	12.0	12.3
6H	11.3	11.6	11.7	12.0	12.4	11.7	12.1	12.2	12.4	12.9
8H	11.5	11.8	11.9	12.2	12.6	12.0	12.3	12.5	12.7	13.2
12H	11.6	11.8	12.0	12.3	12.7	12.2	12.5	12.7	12.9	13.4
12H 4H	10.8	11.2	11.2	11.6	12.0	11.2	11.6	11.6	11.9	12.3
6H	11.3	11.6	11.8	12.0	12.5	11.8	12.0	12.2	12.5	12.9
8H	11.5	11.8	12.0	12.2	12.7	12.1	12.3	12.5	12.8	13.2
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 1.5 / - 1.8					+ 1.5 / - 1.6				
1.5H	+ 2.9 / - 1.8					+ 2.8 / - 1.5				
2.0H	+ 2.4 / - 0.9					+ 2.4 / - 0.7				

CIE Pub.117, 896.7 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.4)
Area: 0.00158963 m2

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UTILIZATION FACTORS TABLE

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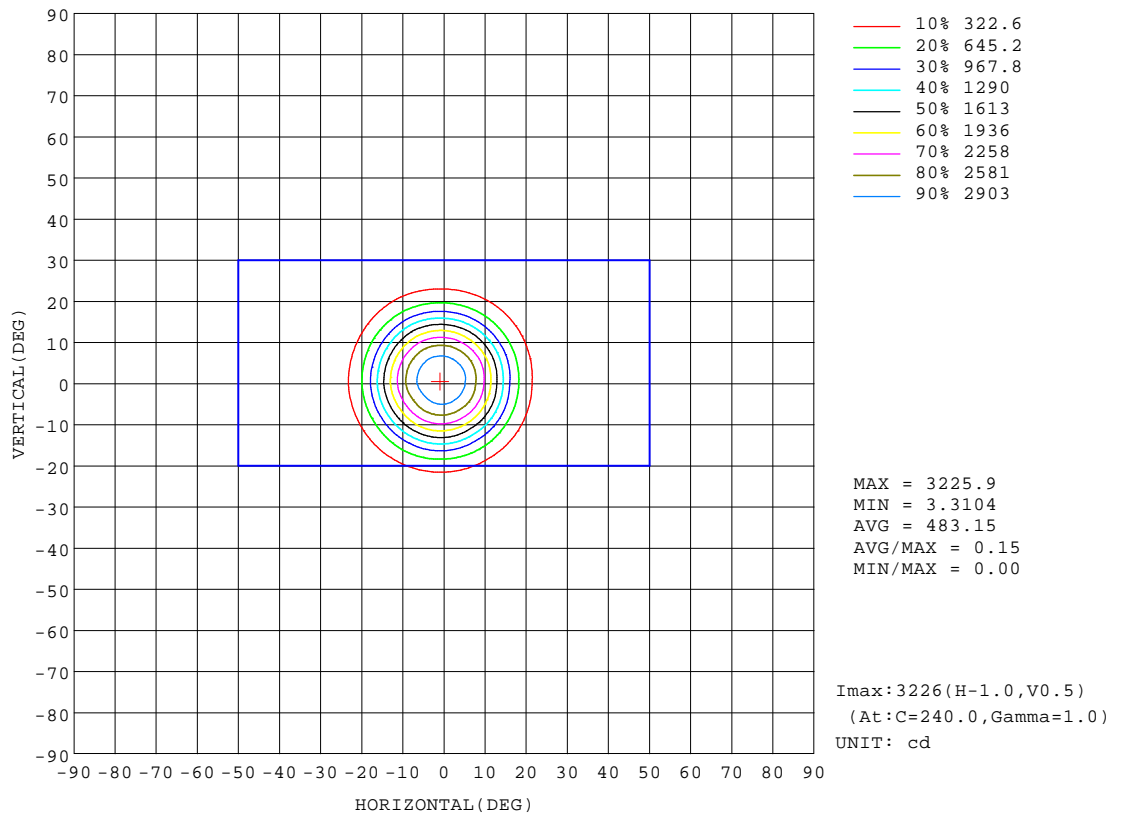
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	78	73	70	77	73	70	77	72	70	67
0.80	84	79	76	83	79	76	82	78	76	73
1.00	87	83	80	87	82	80	85	82	79	76
1.25	90	86	83	89	86	83	88	85	82	79
1.50	93	89	86	91	88	86	90	87	85	81
2.00	94	91	89	93	90	88	91	89	87	82
2.50	96	93	90	94	92	90	92	90	88	83
3.00	97	94	92	95	93	91	93	91	89	84
4.00	99	96	95	97	95	94	94	92	91	85
5.00	100	98	96	98	96	95	95	93	92	86
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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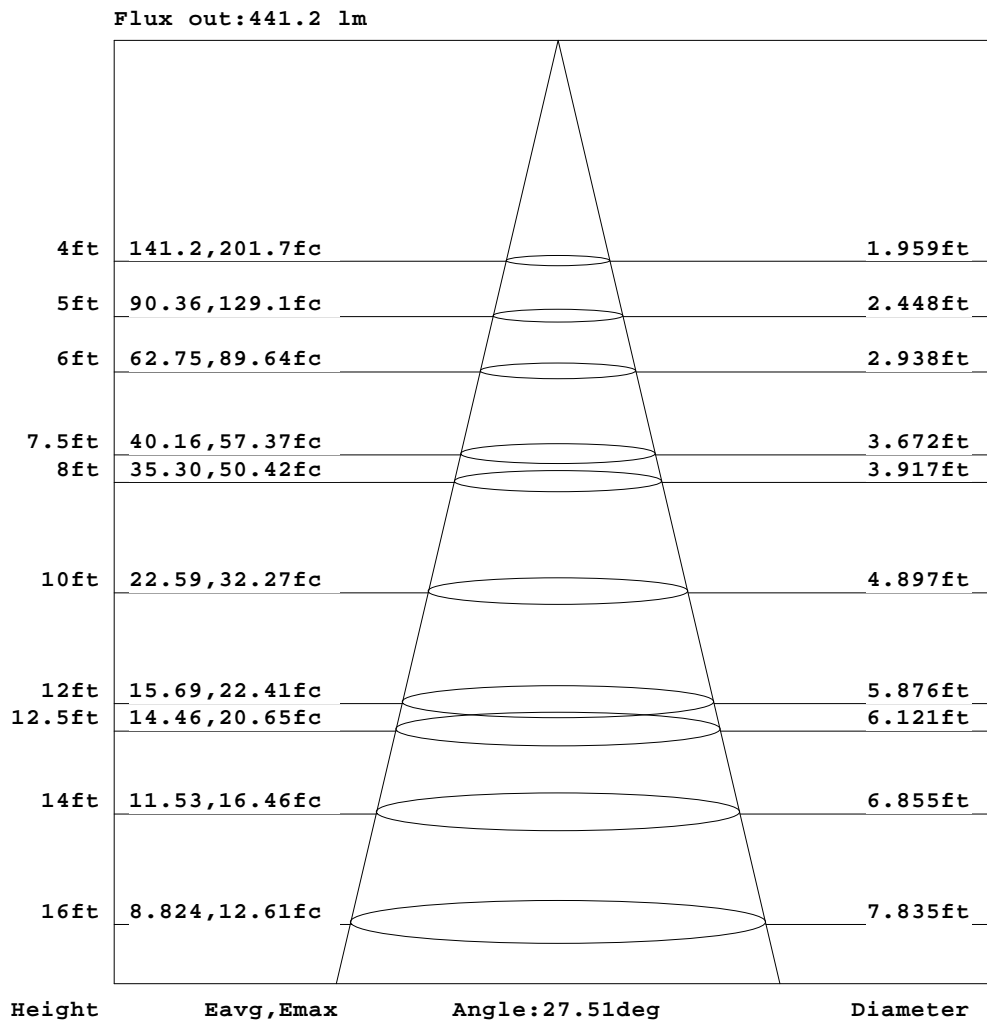


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AAI Figure

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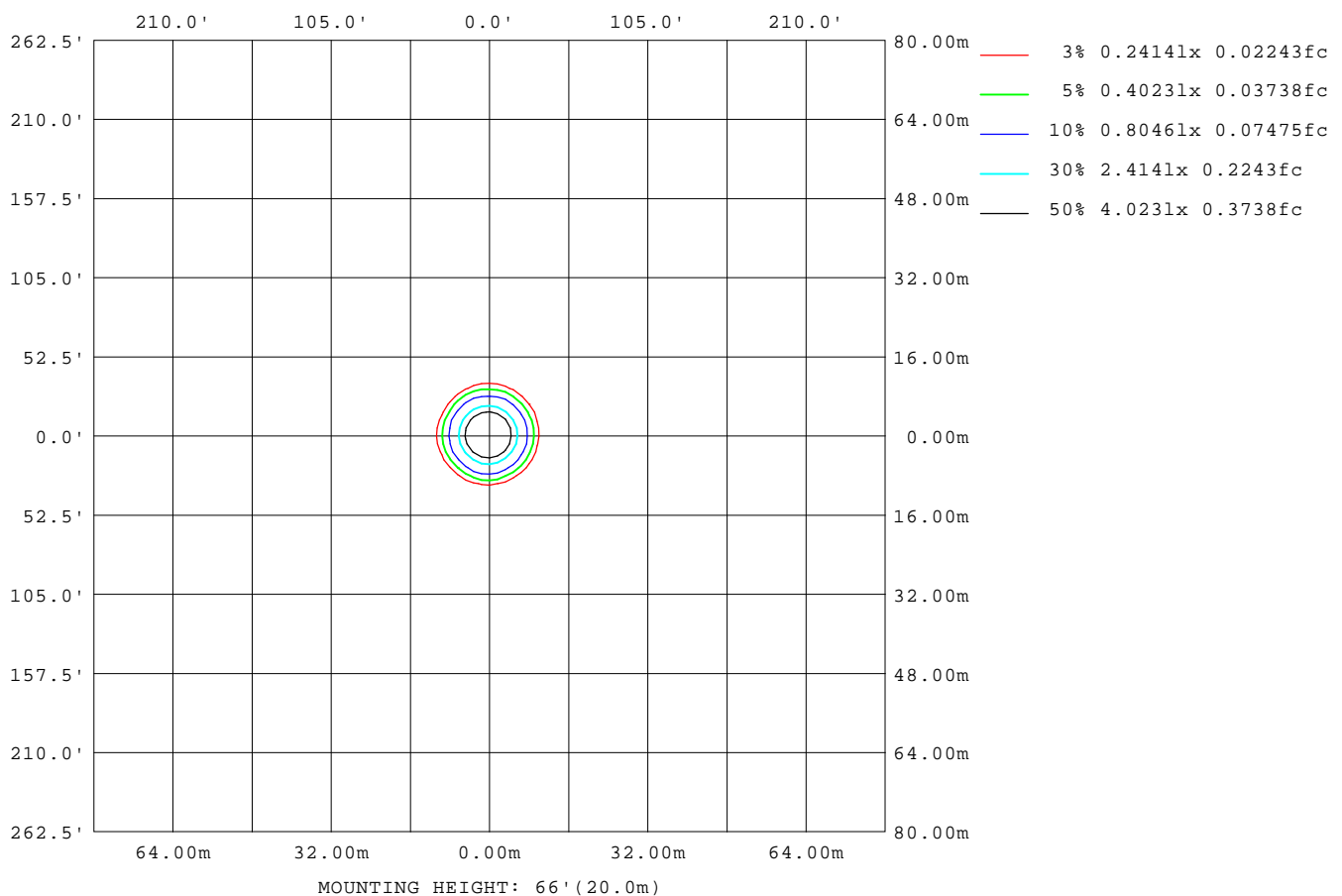
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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MFR.: RISE	SUR.: 0.001589625m2	Shielding Angle:



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Temperature: 25.3 °C
Operators: Zoe
Test Date: 2023-3-20

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-1084A 24R
DRIVER: PUP10A-1WMC-700 500mA
30minutes warm-up

LED Avg.L Report

Test:U:119.94V I:0.0990A P:11.757W PF:0.9882 Freq:59.98Hz Lamp Flux:896.707x1 lm		
NAME: 2218.510-LEA-09	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2303200339
MFR.: RISE	SUR.: 0.001589625m2	Shielding Angle:

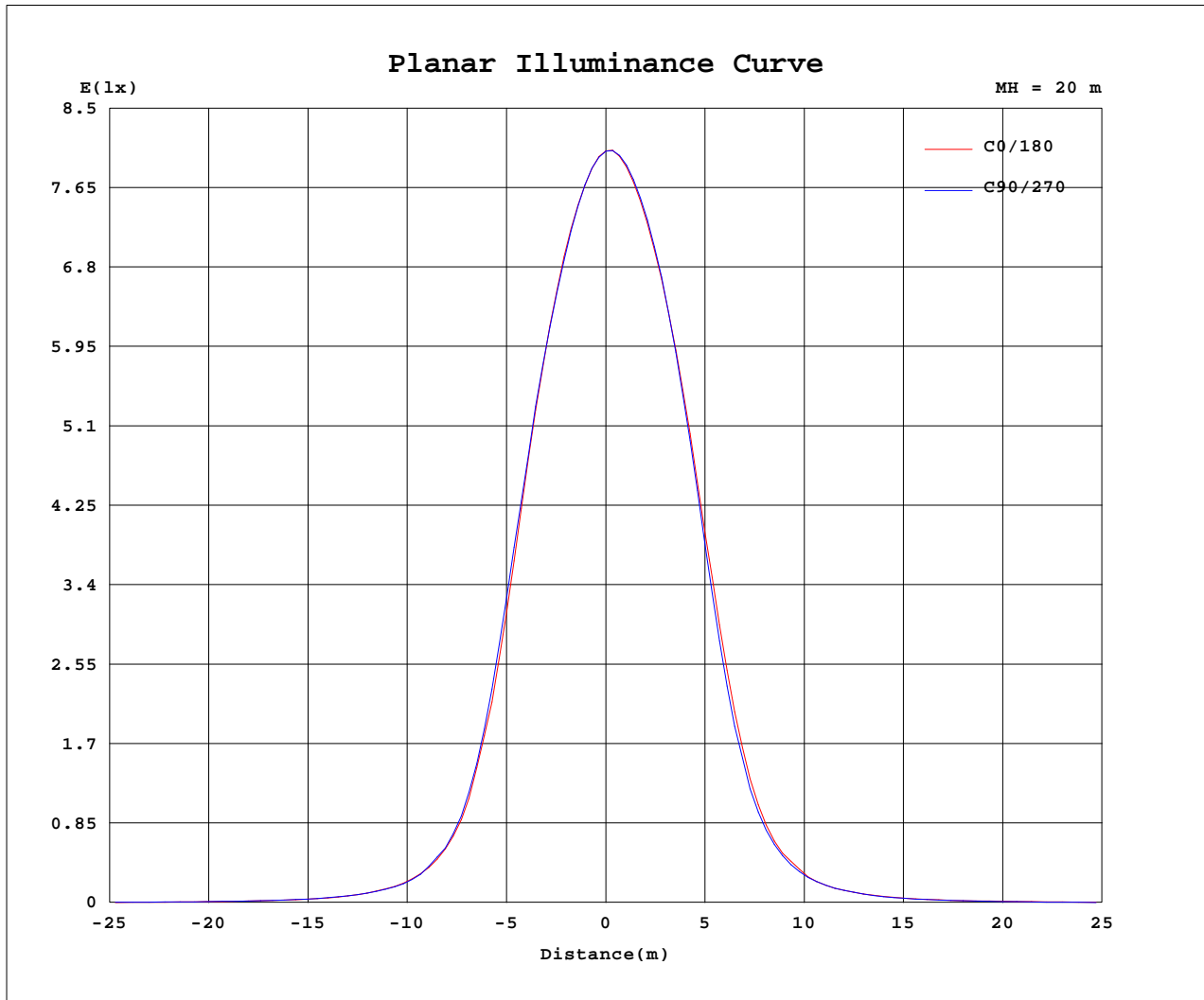
AvgL	cd/m2
L_0~180(65)av	3459
L_0~180(75)av	3112
L_0~180(85)av	3915
L_90~270(65)av	3354
L_90~270(75)av	2998
L_90~270(85)av	3655
L_45(65)av	3419
L_45(75)av	3076
L_45(85)av	3187

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:Zoe
Test Date:2023-3-20

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-1084A 24R
DRIVER:PUP10A-1WMC-700 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: 2023-3-20

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-1084A 24R
 DRIVER: PUP10A-1WMC-700 500mA
 30minutes warm-up

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.94V I:0.0990A P:11.757W PF:0.9882 Freq:59.98Hz Lamp Flux:896.707x1 lm		
NAME: 2218.510-LEA-09	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2303200339
MFR.: RISE	SUR.: 0.001589625m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	3217	3217	3217	3217	3217	3217	3217	3217	3217	3217	3217	3217						
5	2916	2887	2883	2908	2934	2967	3036	3055	3076	3051	3008	2977						
10	2206	2164	2160	2225	2288	2355	2475	2517	2527	2465	2397	2326						
15	1161	1141	1134	1227	1306	1404	1542	1565	1574	1470	1382	1282						
20	429	416	409	448	491	551	637	669	652	587	543	490						
25	166	155	150	162	174	204	237	227	244	219	213	189						
30	76.7	68.9	70.5	74.5	81.9	87.8	95.6	92.3	96.9	95.7	93.8	87.7						
35	37.3	34.6	35.0	38.4	42.0	46.1	48.3	44.9	46.6	46.8	46.2	42.8						
40	20.6	20.2	19.9	21.4	23.4	25.3	26.7	25.5	25.5	24.6	23.9	22.4						
45	11.4	11.5	11.7	12.5	13.6	14.6	16.0	15.2	14.5	13.5	12.6	12.0						
50	5.23	5.59	5.91	6.51	7.18	7.71	8.37	7.72	6.79	5.77	5.23	5.20						
55	3.55	3.77	3.96	4.17	4.38	4.50	4.55	4.41	4.09	3.74	3.53	3.54						
60	2.73	2.90	3.06	3.18	3.29	3.36	3.35	3.21	3.02	2.84	2.68	2.70						
65	2.05	2.17	2.31	2.42	2.53	2.59	2.59	2.46	2.27	2.08	2.02	2.02						
70	1.48	1.56	1.66	1.71	1.85	1.90	1.92	1.80	1.65	1.50	1.45	1.45						
75	1.14	1.21	1.29	1.33	1.43	1.44	1.42	1.32	1.22	1.14	1.09	1.10						
80	0.88	0.94	1.02	1.06	1.14	1.13	1.10	1.02	0.94	0.89	0.85	0.85						
85	0.32	0.29	0.38	0.54	0.66	0.30	0.76	0.68	0.58	0.48	0.38	0.33						
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
Test Speed: HIGH
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