

Luminaire Photograph



Light Output Ratio:	83.9%	
Luminaire Power:	9.285 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	1.00	fine grid method.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Zoe
Test Date: 2023-3-17

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-1084 15R
DRIVER: PUP10A-1WMC-700 400mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

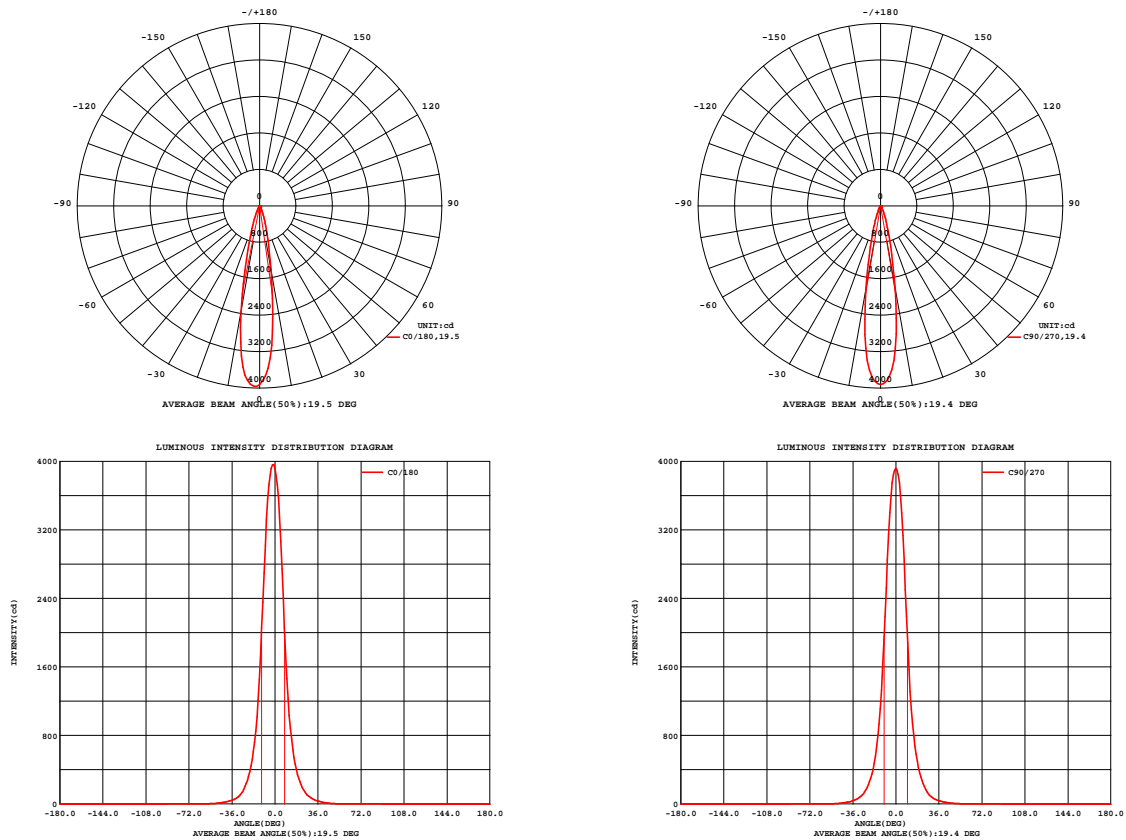


Fig. C0/C180

Fig. C90/C270

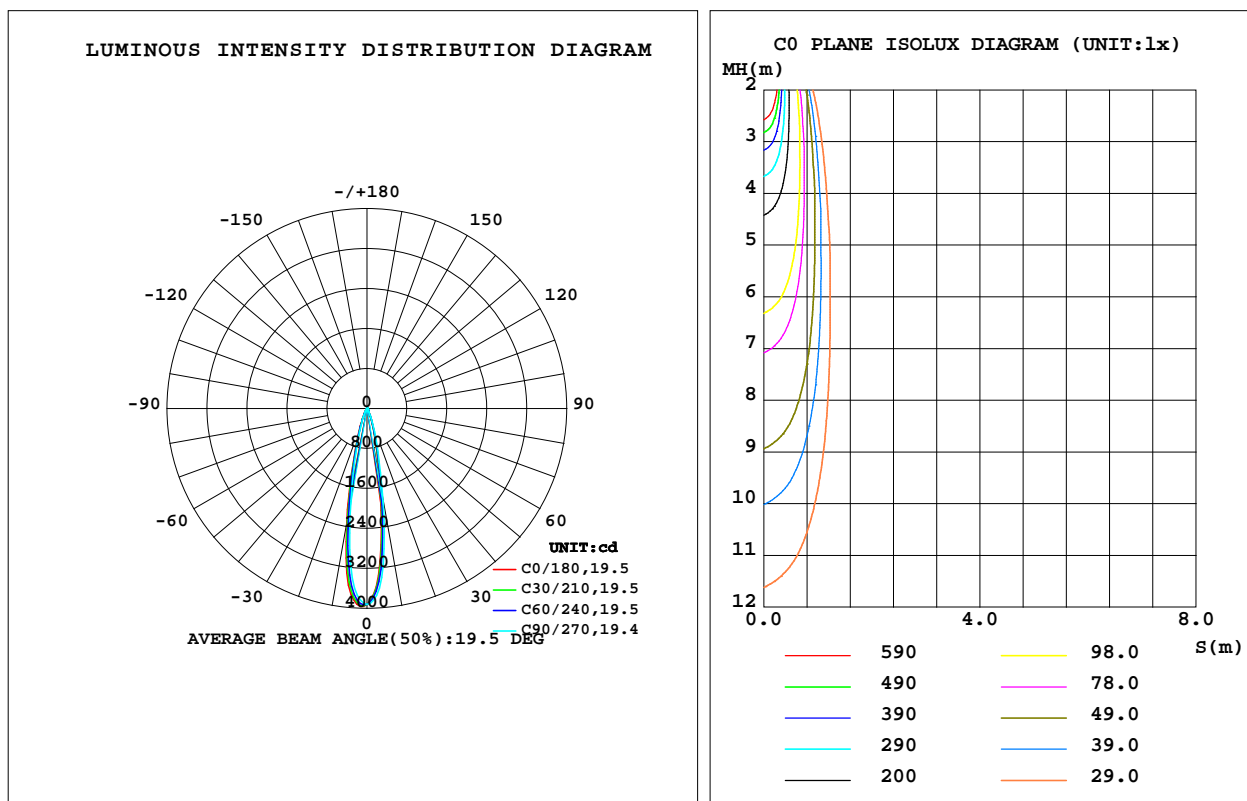
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γ Range: 0 - 180DEG
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Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.416
Humidity: 65.0%
Test Distance: 3.160m [K=1.0000]
Remarks: LAMP: CMA1306-0000-000F0U0A30G Ra: 90
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30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.96V I:0.0786A P:9.2851W PF:0.9827 Freq:59.98Hz Lamp Flux:760.254x1 lm		
NAME: 2218.510-LEA-09	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2303170321
MFR.: RISE	SUR.:0.001589625m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 68.70 lm/W			
MODEL	CREE	I _{max} (cd)	3959	S/MH(C0/180)	0.37
NOMINAL POWER(W)	9	LOR(%)	83.9	S/MH(C90/270)	0.33
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	637.88	η UP,DN(C0-180)	0.0,40.4
NOMINAL FLUX(lm)	760.254	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,43.5
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	120	η down(%)	83.9	CIBSE SHR MAX	1.00



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30minutes warm-up

ZONAL FLUX DIAGRAM

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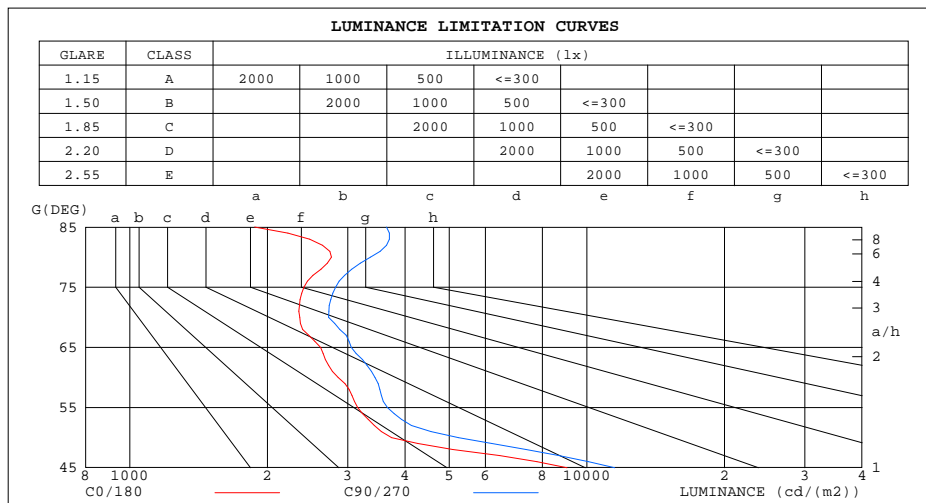
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1464	1583	1876	2101	2356	2200	1869	1668	0- 10	273.1	273.1	42.8,35.9
20	299.3	321.1	365.7	395.5	441.9	405.8	350.1	321.3	10- 20	237.2	510.2	80,67.1
30	74.55	75.16	81.77	87.38	91.79	86.91	82.89	79.00	20- 30	82.47	592.7	92.9,78
40	21.12	22.08	24.08	25.88	27.07	24.43	22.71	22.17	30- 40	28.46	621.2	97.4,81.7
50	3.826	4.410	5.352	6.255	6.987	6.005	4.733	4.113	40- 50	9.958	631.1	98.9,83
60	2.274	2.478	2.735	2.808	2.937	2.784	2.489	2.306	50- 60	3.061	634.2	99.4,83.4
70	1.282	1.394	1.480	1.662	1.739	1.568	1.358	1.278	60- 70	1.988	636.2	99.7,83.7
80	0.7631	0.8569	0.9285	1.005	1.005	0.9060	0.8157	0.7591	70- 80	1.204	637.4	99.9,83.8
90	0	0	0	0	0	0	0	0	80- 90	0.4909	637.9	100,83.9
100	0	0	0	0	0	0	0	0	90-100	0	637.9	100,83.9
110	0	0	0	0	0	0	0	0	100-110	0	637.9	100,83.9
120	0	0	0	0	0	0	0	0	110-120	0	637.9	100,83.9
130	0	0	0	0	0	0	0	0	120-130	0	637.9	100,83.9
140	0	0	0	0	0	0	0	0	130-140	0	637.9	100,83.9
150	0	0	0	0	0	0	0	0	140-150	0	637.9	100,83.9
160	0	0	0	0	0	0	0	0	150-160	0	637.9	100,83.9
170	0	0	0	0	0	0	0	0	160-170	0	637.9	100,83.9
180	0	0	0	0	0	0	0	0	170-180	0	637.9	100,83.9
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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30minutes warm-up

LUMINANCE LIMITATION CURVES

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SPEC.:3000K	DIM.:	SERIAL No.:2303170321
MFR.: RISE	SUR.:0.001589625m2	Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	1876	3643
80	2763	3363
75	2406	2819
70	2356	2722
65	2614	3054
60	2859	3441
55	3155	3663
50	3742	5236
45	9055	11511

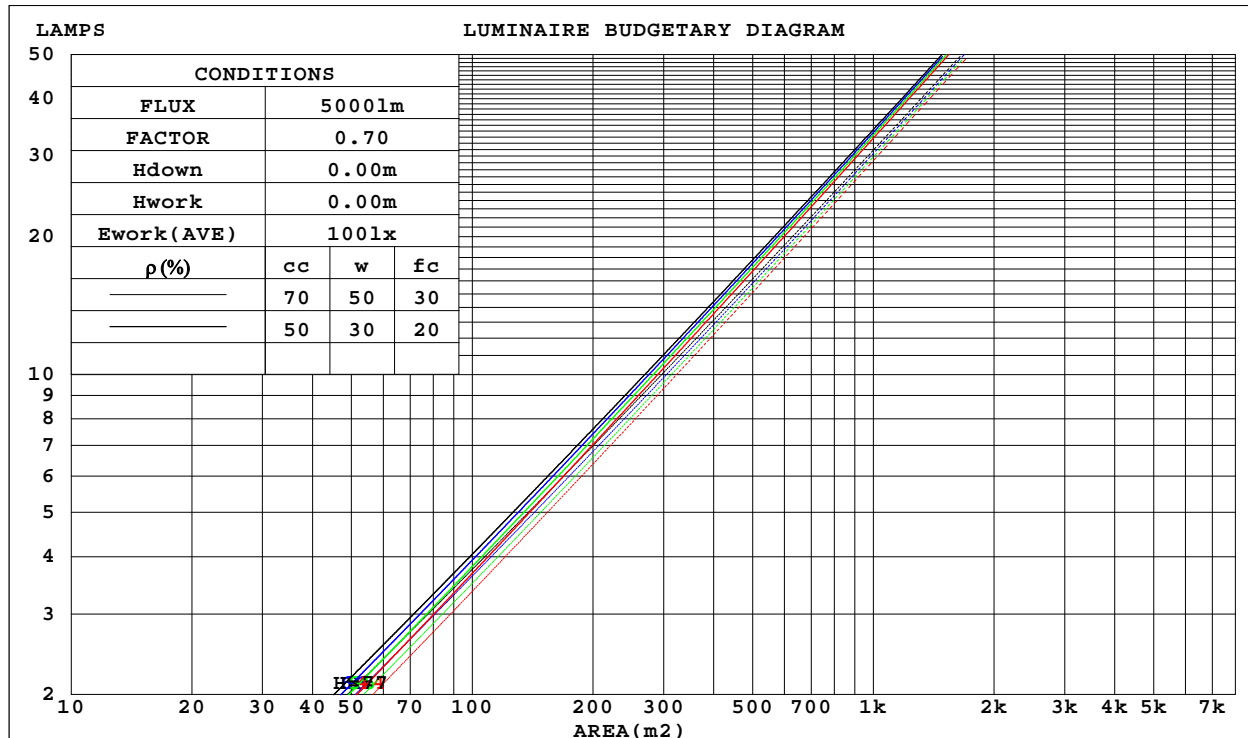
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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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			Coefficients of Utilization(CU)												
0.0	.00	.00	.00	.98	.98	.98	.93	.93	.93	.89	.89	.89	.86	.86	.86	.84
1.0	.95	.93	.92	.93	.92	.90	.90	.89	.88	.87	.86	.85	.84	.83	.83	.81
2.0	.90	.88	.86	.89	.87	.85	.86	.85	.83	.84	.83	.81	.82	.81	.80	.78
3.0	.87	.84	.81	.86	.83	.81	.84	.81	.79	.82	.80	.78	.80	.78	.77	.76
4.0	.83	.80	.78	.83	.80	.77	.81	.78	.76	.79	.77	.76	.78	.76	.75	.74
5.0	.81	.77	.75	.80	.77	.74	.78	.76	.74	.77	.75	.73	.76	.74	.73	.72
6.0	.78	.75	.72	.77	.74	.72	.76	.73	.71	.75	.73	.71	.74	.72	.71	.70
7.0	.76	.72	.70	.75	.72	.70	.74	.71	.69	.73	.71	.69	.73	.70	.69	.68
8.0	.73	.70	.68	.73	.70	.68	.72	.69	.67	.72	.69	.67	.71	.69	.67	.66
9.0	.72	.68	.66	.71	.68	.66	.71	.68	.66	.70	.67	.66	.69	.67	.65	.65
10.0	.70	.67	.64	.69	.66	.64	.69	.66	.64	.68	.66	.64	.68	.66	.64	.63



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WEC AND CCEC

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SPEC.:3000K	DIM.:	SERIAL No.:2303170321
MFR.: RISE	SUR.:0.001589625m2	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 Wall Exitance Coefficients(WEC)															
0.0																
1.0	.114	.065	.021	.108	.062	.020	.098	.056	.018	.088	.051	.016	.080	.046	.015	
2.0	.105	.058	.018	.101	.055	.017	.092	.051	.016	.084	.047	.015	.077	.044	.014	
3.0	.098	.052	.016	.094	.050	.015	.087	.047	.014	.080	.044	.013	.074	.041	.013	
4.0	.091	.047	.014	.088	.046	.014	.082	.044	.013	.077	.041	.012	.071	.039	.012	
5.0	.086	.044	.013	.083	.043	.012	.078	.041	.012	.073	.039	.011	.069	.037	.011	
6.0	.081	.041	.012	.079	.040	.011	.074	.038	.011	.070	.036	.011	.066	.035	.010	
7.0	.077	.038	.011	.075	.037	.011	.071	.036	.010	.067	.034	.010	.064	.033	.010	
8.0	.073	.036	.010	.071	.035	.010	.068	.034	.010	.065	.033	.009	.062	.032	.009	
9.0	.069	.034	.009	.068	.033	.009	.065	.032	.009	.062	.031	.009	.059	.030	.009	
10.0	.066	.032	.009	.065	.031	.009	.062	.030	.009	.060	.030	.008	.057	.029	.008	

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 Ceiling Cavity Exitance Coefficients(CCEC)															
0.0	.160	.160	.160	.137	.137	.137	.093	.093	.093	.054	.054	.054	.017	.017	.017	
1.0	.141	.132	.124	.121	.114	.107	.083	.078	.074	.048	.045	.043	.015	.015	.014	
2.0	.126	.111	.099	.108	.096	.086	.074	.066	.060	.043	.039	.035	.014	.012	.011	
3.0	.113	.095	.081	.097	.082	.070	.067	.057	.049	.038	.033	.029	.012	.011	.009	
4.0	.103	.082	.066	.088	.071	.058	.061	.049	.041	.035	.029	.024	.011	.009	.008	
5.0	.094	.072	.056	.080	.062	.048	.055	.043	.034	.032	.025	.020	.010	.008	.007	
6.0	.086	.063	.047	.074	.055	.041	.051	.038	.029	.030	.023	.017	.010	.007	.006	
7.0	.080	.056	.040	.068	.049	.035	.047	.034	.025	.027	.020	.015	.009	.007	.005	
8.0	.074	.051	.035	.064	.044	.030	.044	.031	.021	.026	.018	.013	.008	.006	.004	
9.0	.069	.046	.030	.060	.040	.026	.041	.028	.019	.024	.017	.011	.008	.005	.004	
10.0	.065	.042	.027	.056	.036	.023	.039	.026	.016	.023	.015	.010	.007	.005	.003	

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UGR(Unified Glare Rating) Table

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SPEC.:3000K						DIM.:		SERIAL No.:2303170321			
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	10.6	11.2	10.8	11.4	11.5	11.1	11.7	11.3	11.9	12.0	
	3H	10.7	11.3	10.9	11.5	11.7	11.3	11.9	11.5	12.0	12.2
	4H	10.8	11.3	11.0	11.5	11.7	11.4	11.9	11.6	12.1	12.3
	6H	10.9	11.4	11.2	11.7	11.9	11.5	12.0	11.8	12.3	12.5
	8H	10.9	11.5	11.2	11.7	11.9	11.6	12.1	11.9	12.4	12.6
	12H	10.9	11.4	11.2	11.7	12.0	11.7	12.2	12.0	12.4	12.7
4H	2H	10.5	11.1	10.8	11.3	11.5	11.0	11.6	11.3	11.8	12.0
	3H	10.7	11.2	11.0	11.5	11.7	11.3	11.8	11.6	12.0	12.3
	4H	10.9	11.3	11.2	11.6	11.9	11.4	11.9	11.8	12.2	12.5
	6H	11.1	11.5	11.5	11.8	12.2	11.7	12.1	12.1	12.4	12.8
	8H	11.2	11.6	11.6	11.9	12.3	11.8	12.2	12.2	12.6	12.9
	12H	11.2	11.6	11.6	11.9	12.3	12.0	12.3	12.4	12.7	13.1
8H	4H	10.9	11.3	11.3	11.6	12.0	11.4	11.8	11.8	12.1	12.5
	6H	11.2	11.5	11.6	11.9	12.3	11.8	12.1	12.2	12.5	12.9
	8H	11.4	11.7	11.8	12.1	12.5	12.0	12.3	12.5	12.7	13.2
	12H	11.4	11.7	11.9	12.1	12.6	12.2	12.5	12.7	12.9	13.4
12H	4H	10.9	11.2	11.3	11.6	12.0	11.4	11.7	11.8	12.1	12.5
	6H	11.2	11.5	11.7	11.9	12.4	11.8	12.1	12.2	12.5	12.9
	8H	11.4	11.7	11.9	12.1	12.6	12.1	12.3	12.5	12.7	13.2
Variations with the observer position at spacings:											
S = 1.0H	+ 1.8 / - 2.5					+ 1.9 / - 2.3					
1.5H	+ 3.5 / - 2.5					+ 3.6 / - 2.3					
2.0H	+ 2.6 / - 0.9					+ 3.2 / - 0.9					

CIE Pub.117, 760.3 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -1.0)
Area: 0.00158963 m2

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UTILIZATION FACTORS TABLE

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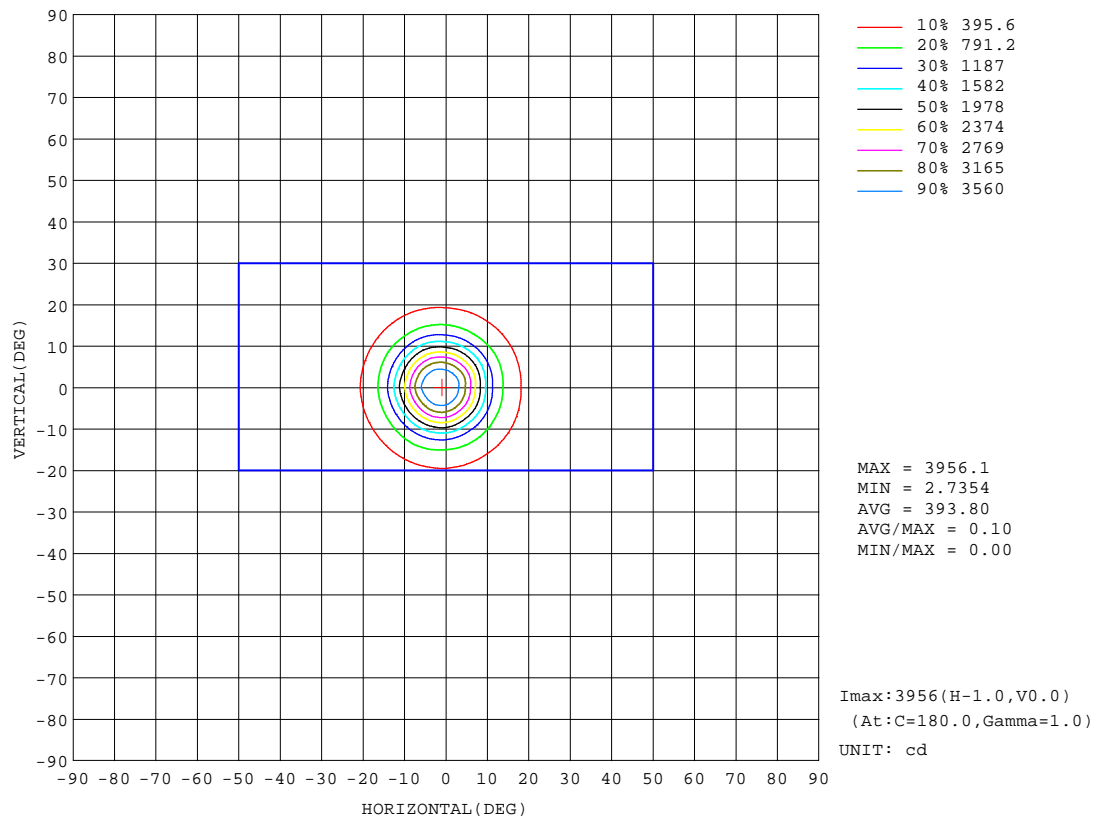
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	75	71	68	75	70	68	74	70	67	65
0.80	81	77	74	81	77	74	80	76	74	71
1.00	85	80	78	84	80	77	83	80	77	74
1.25	88	84	81	87	83	81	85	82	80	77
1.50	90	86	84	89	86	83	87	84	82	79
2.00	92	89	86	91	88	85	88	86	84	80
2.50	93	90	88	92	89	87	89	87	85	81
3.00	94	92	89	93	90	89	90	88	87	81
4.00	96	94	92	94	92	91	91	90	89	83
5.00	97	95	94	95	94	92	92	91	90	84
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

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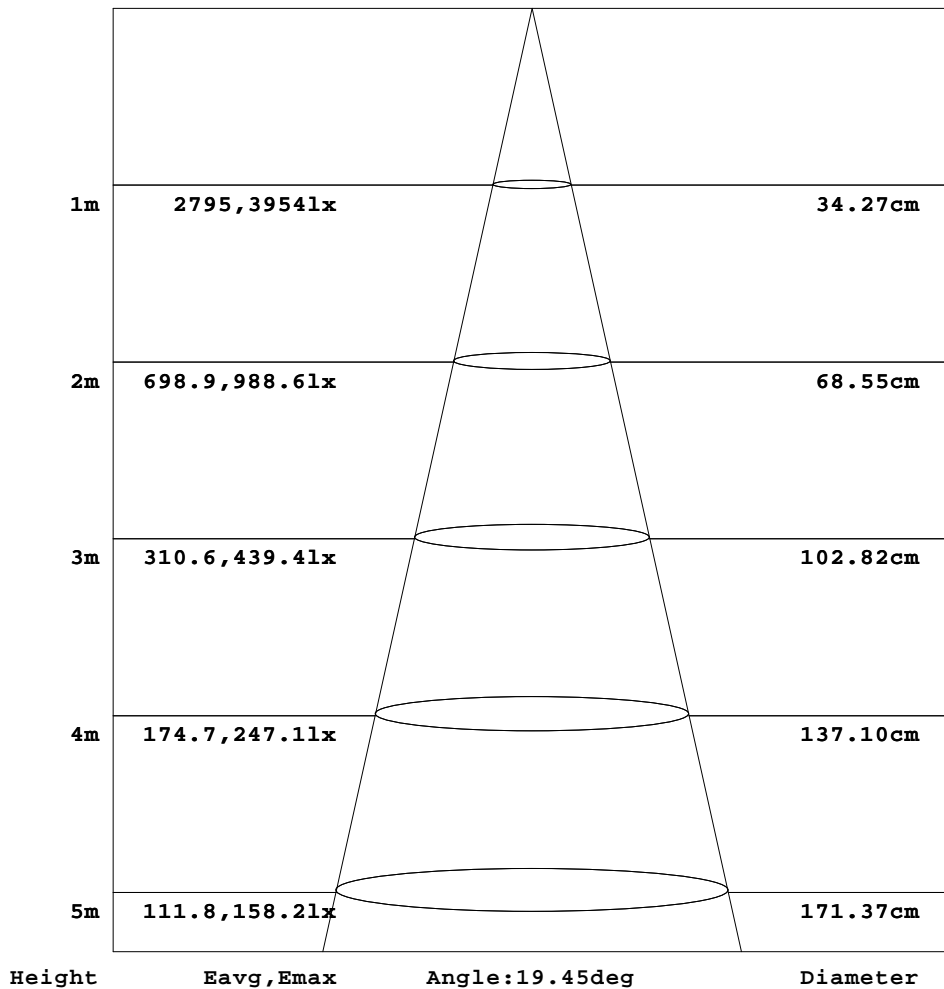
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Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.416
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:CMA1306-0000-000F0U0A30G Ra:90
LENS:PM-1084 15R
DRIVER:PUP10A-1WMC-700 400mA
30minutes warm-up

AAI Figure

Test:U:119.96V I:0.0786A P:9.2851W PF:0.9827 Freq:59.98Hz Lamp Flux:760.254x1 lm		
NAME: 2218.510-LEA-09	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2303170321
MFR.: RISE	SUR.:0.001589625m2	Shielding Angle:

Flux out:273.1 lm



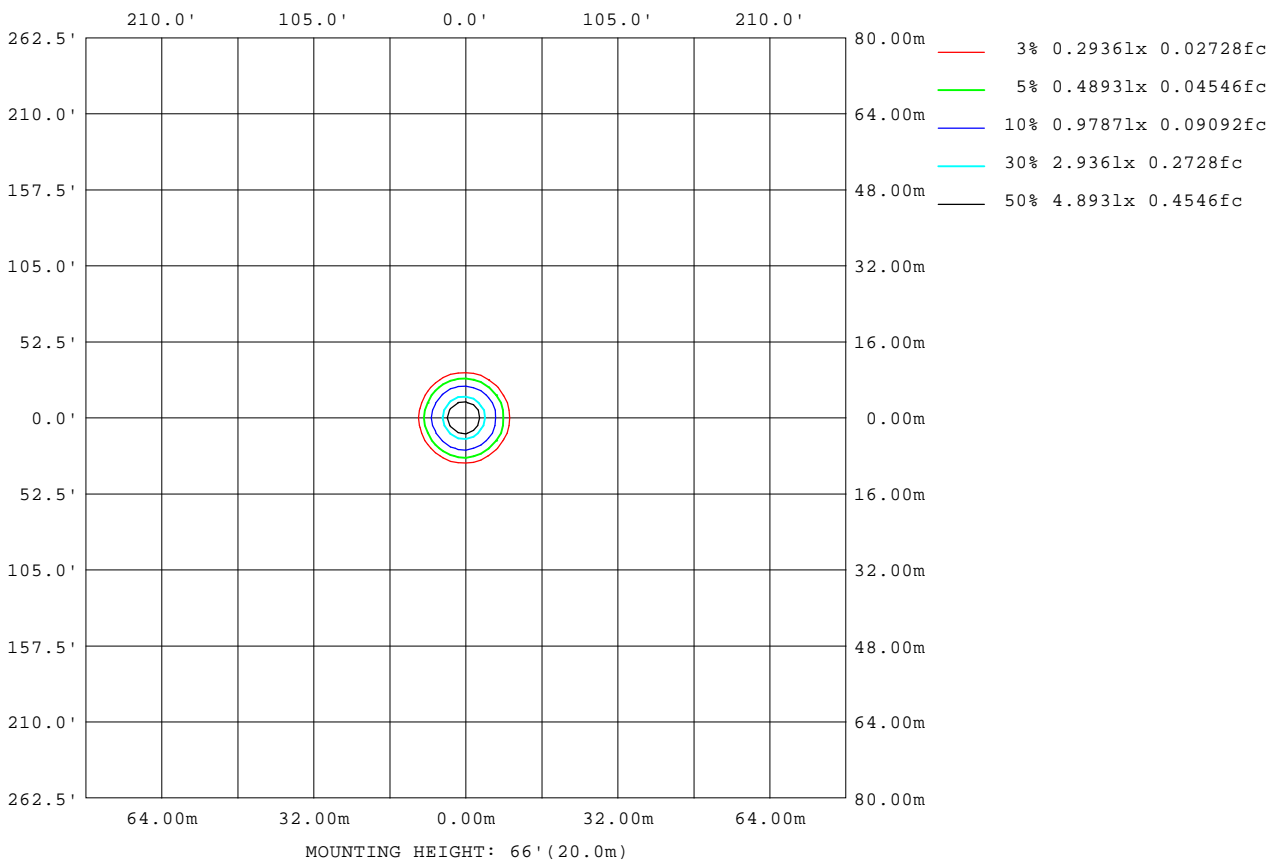
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zoe
Test Date:2023-3-17

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-1084 15R
DRIVER:PUP10A-1WMC-700 400mA
30minutes warm-up

ISOLUX DIAGRAM

Test:U:119.96V I:0.0786A P:9.2851W PF:0.9827 Freq:59.98Hz Lamp Flux:760.254x1 lm		
NAME: 2218.510-LEA-09	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2303170321
MFR.: RISE	SUR.:0.001589625m2	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zoe
Test Date:2023-3-17

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-1084 15R
DRIVER:PUP10A-1WMC-700 400mA
30minutes warm-up

LED Avg.L Report

Test:U:119.96V I:0.0786A P:9.2851W PF:0.9827 Freq:59.98Hz Lamp Flux:760.254x1 lm		
NAME: 2218.510-LEA-09	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2303170321
MFR.: RISE	SUR.:0.001589625m2	Shielding Angle:

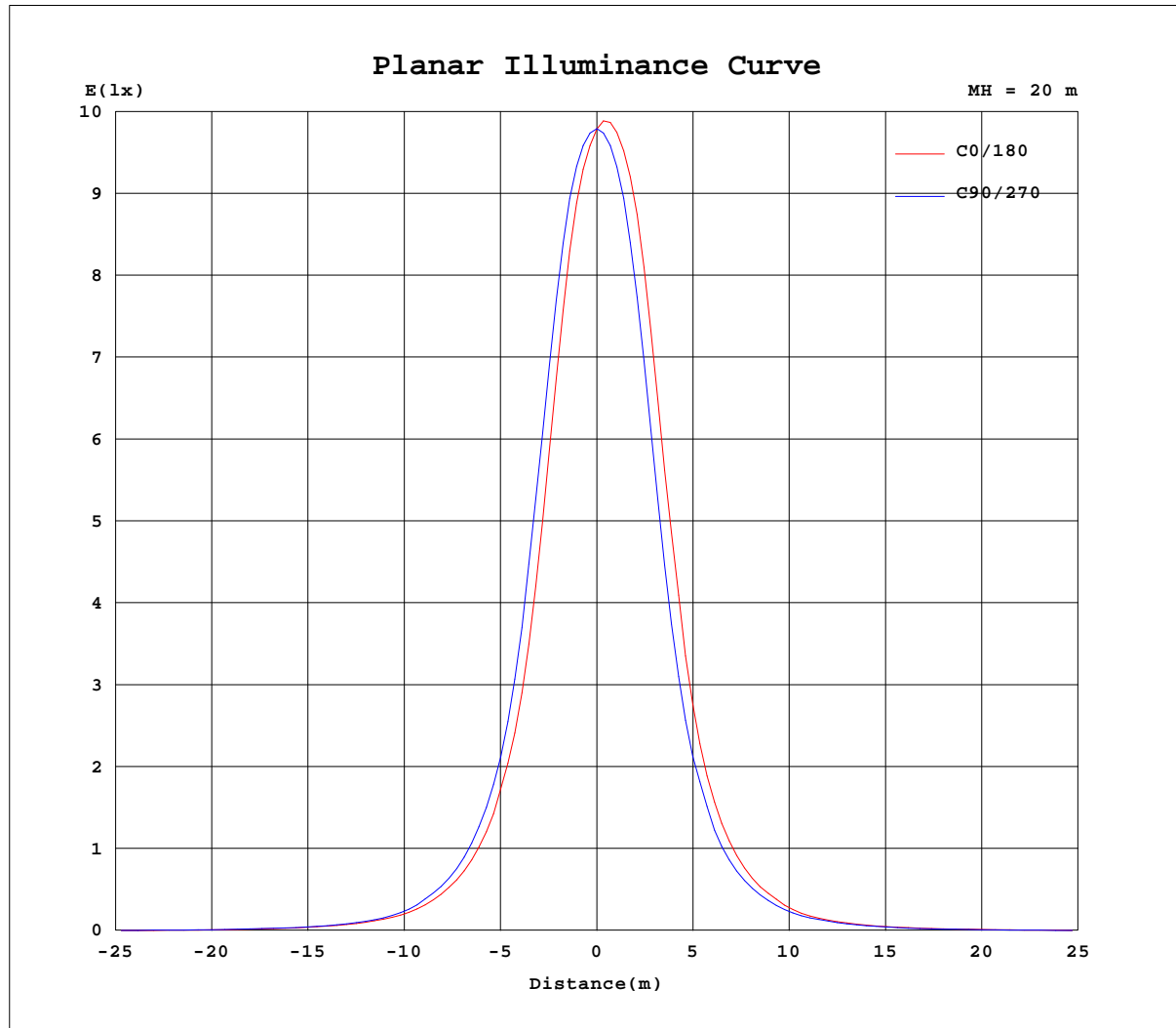
AvgL	cd/m2
L_0~180(65)av	3009
L_0~180(75)av	2777
L_0~180(85)av	3530
L_90~270(65)av	2934
L_90~270(75)av	2673
L_90~270(85)av	3375
L_45(65)av	2974
L_45(75)av	2738
L_45(85)av	3280

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zoe
Test Date:2023-3-17

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-1084 15R
DRIVER:PUP10A-1WMC-700 400mA
30minutes warm-up

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Zoe
 Test Date: 2023-3-17

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-1084 15R
 DRIVER: PUP10A-1WMC-700 400mA
 30minutes warm-up

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.96V I:0.0786A P:9.2851W PF:0.9827 Freq:59.98Hz Lamp Flux:760.254x1 lm		
NAME: 2218.510-LEA-09	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2303170321
MFR.: RISE	SUR.:0.001589625m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	3918	3918	3918	3918	3918	3918	3918	3918	3918	3918	3918	3918						
5	3068	3127	3233	3398	3530	3612	3727	3666	3568	3400	3273	3192						
10	1464	1533	1632	1876	2023	2179	2356	2265	2136	1869	1738	1599						
15	634	668	727	793	887	917	1013	963	896	807	717	698						
20	299	313	329	366	386	405	442	417	394	350	328	315						
25	142	146	152	169	179	190	205	188	181	166	158	151						
30	74.6	73.6	76.7	81.8	86.9	87.8	91.8	88.1	85.7	82.9	79.6	78.4						
35	39.6	39.3	39.7	43.3	45.1	46.6	48.8	44.5	44.1	43.1	42.7	42.1						
40	21.1	21.8	22.3	24.1	25.4	26.4	27.1	24.9	24.0	22.7	22.5	21.9						
45	10.2	10.8	11.7	12.9	13.8	14.4	15.0	14.1	13.1	11.9	11.2	10.8						
50	3.83	4.18	4.64	5.35	6.03	6.48	6.99	6.39	5.62	4.73	4.20	4.03						
55	2.88	3.01	3.15	3.34	3.51	3.58	3.64	3.60	3.37	3.09	2.93	2.85						
60	2.27	2.41	2.55	2.74	2.77	2.85	2.94	2.88	2.69	2.49	2.34	2.28						
65	1.76	1.86	1.97	2.05	2.15	2.20	2.29	2.20	2.05	1.89	1.79	1.75						
70	1.28	1.35	1.44	1.48	1.64	1.69	1.74	1.64	1.50	1.36	1.29	1.27						
75	0.99	1.05	1.13	1.16	1.26	1.28	1.29	1.21	1.12	1.04	0.98	0.97						
80	0.76	0.82	0.90	0.93	1.01	1.00	1.00	0.94	0.87	0.82	0.77	0.75						
85	0.26	0.26	0.36	0.50	0.62	0.64	0.72	0.64	0.54	0.43	0.32	0.27						
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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