

Luminaire Photograph



Light Output Ratio:	81.5%	
Luminaire Power:	9.261 W	
SHR Nominal:	0.75	Calculated using the TM5
SHR Maximum:	0.80	fine grid method.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Zoe
Test Date: 2023-03-17

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-1084C 50R
DRIVER: PUP10A-1WMC-700 400mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

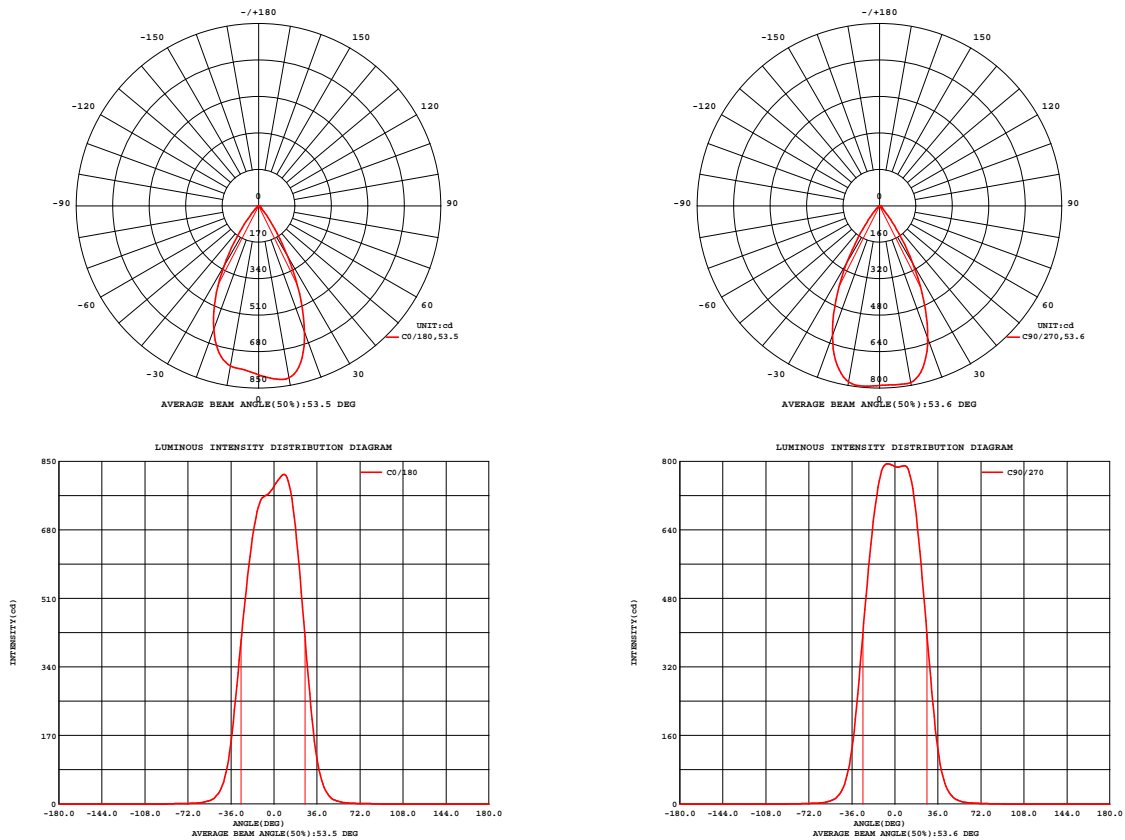


Fig. C0/C180

Fig. C90/C270

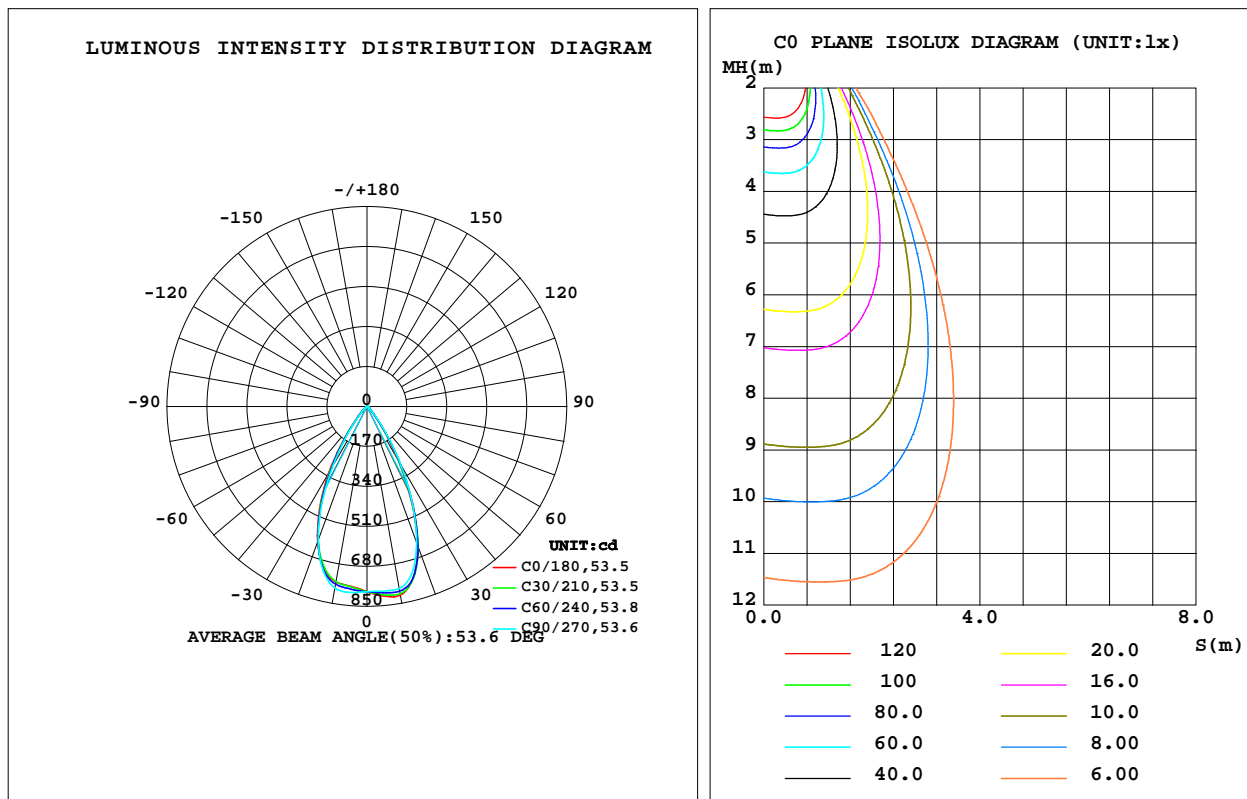
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30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.93V I:0.0785A P:9.2609W PF:0.9815 Freq:59.98Hz Lamp Flux:760.254x1 lm		
NAME: 2218.510-LEA-09	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2303170327
MFR.: RISE	SUR.:0.001589625m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 66.91 lm/W			
MODEL	CREE	I _{max} (cd)	817.2	S/MH(C0/180)	0.84
NOMINAL POWER(W)	9	LOR(%)	81.5	S/MH(C90/270)	0.81
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	619.65	η UP,DN(C0-180)	0.0,40.6
NOMINAL FLUX(lm)	760.254	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,40.9
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	120	η down(%)	81.5	CIBSE SHR MAX	0.80



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ZONAL FLUX DIAGRAM

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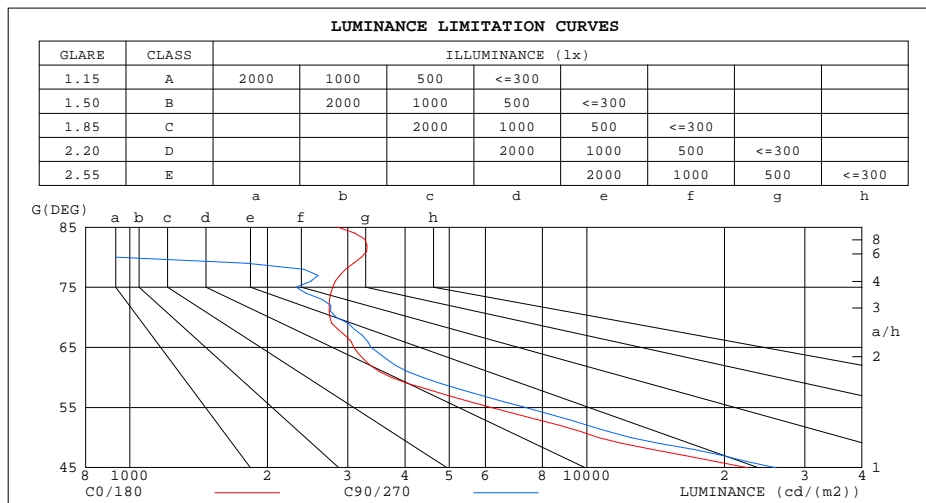
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	814.6	803.3	786.9	770.0	758.2	761.8	784.4	809.1	0- 10	75.32	75.32	12.2,9.91
20	627.7	636.0	618.8	611.9	613.2	607.0	606.5	629.0	10- 20	202.6	277.9	44.9,36.6
30	273.1	283.2	293.7	299.5	324.7	308.8	289.3	286.5	20- 30	208.3	486.2	78.5,64
40	58.36	61.53	66.85	71.19	78.15	73.32	67.15	63.24	30- 40	98.78	585.0	94.4,77
50	10.83	11.64	12.76	13.31	14.24	13.65	12.44	11.85	40- 50	24.75	609.8	98.4,80.2
60	2.968	3.176	3.481	3.543	3.676	3.390	3.065	3.034	50- 60	6.178	615.9	99.4,81
70	1.487	1.558	1.539	1.659	1.697	1.606	1.521	1.500	60- 70	2.248	618.2	99.8,81.3
80	0.8864	0.6453	0.2569	0.7866	0.9929	0.7140	0.3652	0.5691	70- 80	1.228	619.4	100,81.5
90	0	0	0	0	0	0	0	0	80- 90	0.2215	619.6	100,81.5
100	0	0	0	0	0	0	0	0	90-100	0	619.6	100,81.5
110	0	0	0	0	0	0	0	0	100-110	0	619.6	100,81.5
120	0	0	0	0	0	0	0	0	110-120	0	619.6	100,81.5
130	0	0	0	0	0	0	0	0	120-130	0	619.6	100,81.5
140	0	0	0	0	0	0	0	0	130-140	0	619.6	100,81.5
150	0	0	0	0	0	0	0	0	140-150	0	619.6	100,81.5
160	0	0	0	0	0	0	0	0	150-160	0	619.6	100,81.5
170	0	0	0	0	0	0	0	0	160-170	0	619.6	100,81.5
180	0	0	0	0	0	0	0	0	170-180	0	619.6	100,81.5
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.:2303170327
MFR.: RISE	SUR.:0.001589625m2	Shielding Angle:



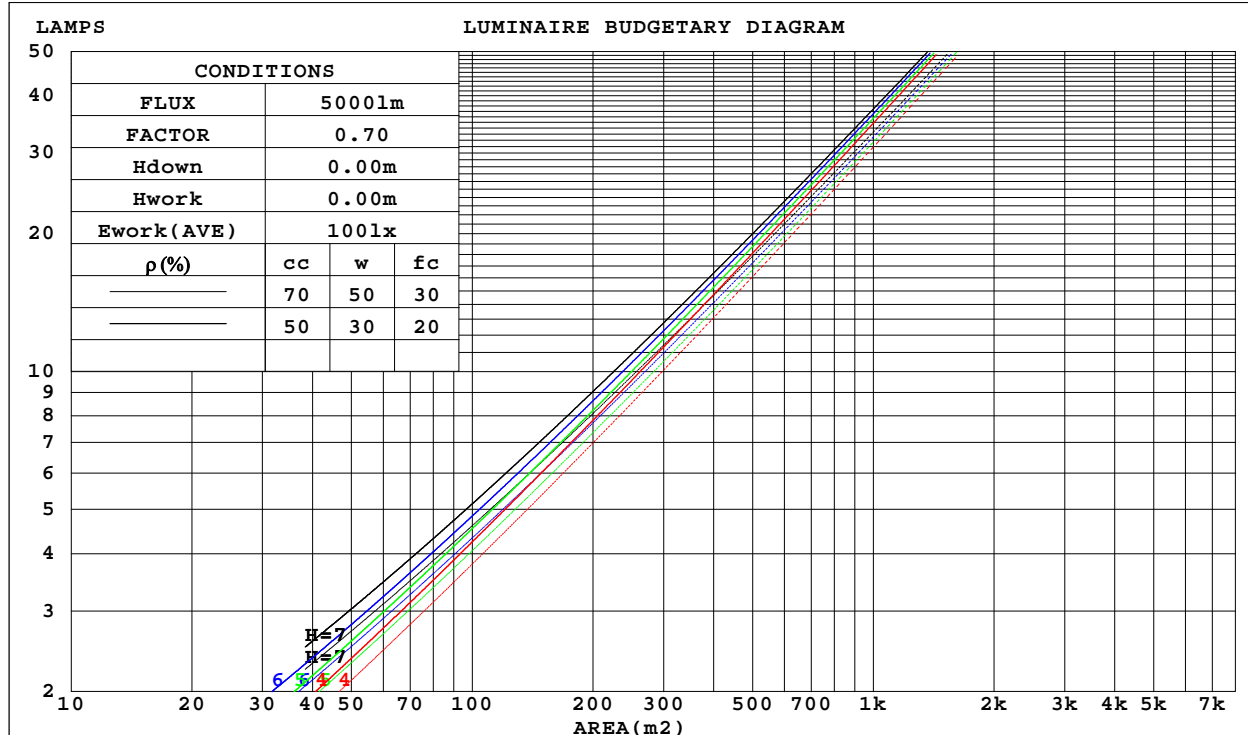
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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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	.97	.97	.97	.95	.95	.95	.91	.91	.91	.87	.87	.87	.83	.83	.83	.82
1.0	.91	.89	.87	.89	.87	.85	.85	.84	.83	.82	.81	.80	.80	.79	.78	.77
2.0	.85	.81	.79	.83	.80	.78	.81	.78	.76	.78	.76	.75	.76	.74	.73	.72
3.0	.79	.75	.72	.78	.75	.72	.76	.73	.71	.74	.72	.69	.72	.70	.68	.67
4.0	.74	.70	.67	.74	.70	.66	.72	.68	.66	.70	.67	.65	.69	.66	.64	.63
5.0	.70	.66	.62	.69	.65	.62	.68	.64	.61	.67	.63	.61	.65	.63	.60	.59
6.0	.66	.61	.58	.65	.61	.58	.64	.60	.58	.63	.60	.57	.62	.59	.57	.56
7.0	.62	.58	.55	.62	.58	.54	.61	.57	.54	.60	.56	.54	.59	.56	.54	.52
8.0	.59	.54	.51	.59	.54	.51	.58	.54	.51	.57	.53	.51	.56	.53	.51	.50
9.0	.56	.52	.48	.56	.51	.48	.55	.51	.48	.54	.51	.48	.54	.50	.48	.47
10.0	.53	.49	.46	.53	.49	.46	.52	.48	.46	.52	.48	.46	.51	.48	.45	.44



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30minutes warm-up

WEC AND CCEC

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SPEC.:3000K	DIM.:	SERIAL No.:2303170327
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	.140	.080	.025	.134	.077	.024	.124	.071	.023	.115	.066	.021	.106	.061	.020	
2.0	.133	.073	.022	.129	.071	.022	.120	.067	.021	.112	.063	.020	.105	.059	.019	
3.0	.127	.067	.020	.123	.066	.020	.116	.063	.019	.109	.060	.018	.102	.057	.018	
4.0	.121	.063	.018	.117	.061	.018	.111	.059	.018	.105	.056	.017	.100	.054	.016	
5.0	.115	.059	.017	.112	.057	.017	.106	.055	.016	.101	.053	.016	.097	.052	.016	
6.0	.110	.055	.016	.107	.054	.016	.102	.052	.015	.098	.051	.015	.094	.049	.015	
7.0	.105	.052	.015	.103	.051	.015	.098	.050	.014	.094	.048	.014	.091	.047	.014	
8.0	.100	.049	.014	.098	.048	.014	.095	.047	.013	.091	.046	.013	.088	.045	.013	
9.0	.096	.047	.013	.094	.046	.013	.091	.045	.013	.088	.044	.013	.085	.043	.012	
10.0	.092	.044	.012	.091	.044	.012	.088	.043	.012	.085	.042	.012	.082	.041	.012	

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	.155	.155	.155	.133	.133	.133	.091	.091	.091	.052	.052	.052	.017	.017	.017	
1.0	.139	.128	.118	.119	.110	.102	.081	.076	.070	.047	.044	.041	.015	.014	.013	
2.0	.126	.108	.093	.108	.093	.080	.074	.064	.056	.043	.037	.033	.014	.012	.011	
3.0	.116	.093	.074	.100	.080	.064	.068	.055	.045	.039	.032	.026	.013	.011	.009	
4.0	.107	.080	.060	.092	.070	.052	.063	.048	.037	.037	.028	.022	.012	.009	.007	
5.0	.100	.071	.049	.086	.061	.043	.059	.043	.030	.034	.025	.018	.011	.008	.006	
6.0	.094	.063	.041	.081	.055	.036	.056	.038	.025	.032	.023	.015	.010	.007	.005	
7.0	.089	.057	.035	.076	.049	.030	.053	.035	.022	.031	.020	.013	.010	.007	.004	
8.0	.084	.052	.030	.072	.045	.026	.050	.032	.018	.029	.019	.011	.009	.006	.004	
9.0	.080	.048	.026	.069	.041	.023	.048	.029	.016	.028	.017	.010	.009	.006	.003	
10.0	.076	.044	.023	.066	.038	.020	.046	.027	.014	.027	.016	.008	.009	.005	.003	

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UGR(Unified Glare Rating) Table

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SPEC.:3000K						DIM.:		SERIAL No.:2303170327			
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	18.6	19.5	18.9	19.7	19.9	19.1	20.0	19.3	20.2	20.3	
	3H	18.5	19.3	18.8	19.5	19.7	19.0	19.8	19.2	20.0	
	4H	18.4	19.2	18.7	19.4	19.7	18.9	19.7	19.2	19.9	
	6H	18.4	19.1	18.7	19.4	19.6	18.8	19.5	19.1	19.8	
	8H	18.4	19.1	18.7	19.3	19.6	18.8	19.5	19.1	19.7	
	12H	18.3	19.0	18.6	19.3	19.5	18.7	19.4	19.0	19.7	
4H	2H	18.4	19.2	18.7	19.4	19.6	18.9	19.6	19.1	19.9	
	3H	18.3	19.0	18.6	19.2	19.5	18.7	19.4	19.0	19.7	
	4H	18.2	18.8	18.6	19.1	19.5	18.7	19.3	19.0	19.6	
	6H	18.2	18.7	18.6	19.1	19.4	18.6	19.1	19.0	19.5	
	8H	18.2	18.7	18.6	19.0	19.4	18.5	19.0	18.9	19.4	
	12H	18.1	18.6	18.5	19.0	19.3	18.5	18.9	18.9	19.3	
8H	4H	18.1	18.6	18.5	19.0	19.3	18.5	19.0	18.9	19.4	
	6H	18.1	18.5	18.5	18.9	19.3	18.5	18.9	18.9	19.3	
	8H	18.1	18.4	18.5	18.8	19.3	18.4	18.8	18.9	19.2	
	12H	18.0	18.3	18.5	18.8	19.2	18.4	18.7	18.8	19.1	
12H	4H	18.1	18.5	18.5	18.9	19.3	18.5	18.9	18.9	19.3	
	6H	18.0	18.4	18.5	18.8	19.2	18.4	18.8	18.9	19.2	
	8H	18.0	18.3	18.5	18.8	19.2	18.4	18.7	18.8	19.1	
Variations with the observer position at spacings:											
S = 1.0H	+ 3.1 / - 7.1					+ 3.5 / - 8.0					
1.5H	+ 5.2 / - 6.1					+ 5.6 / - 6.9					
2.0H	+ 4.9 / - 3.3					+ 5.6 / - 4.3					

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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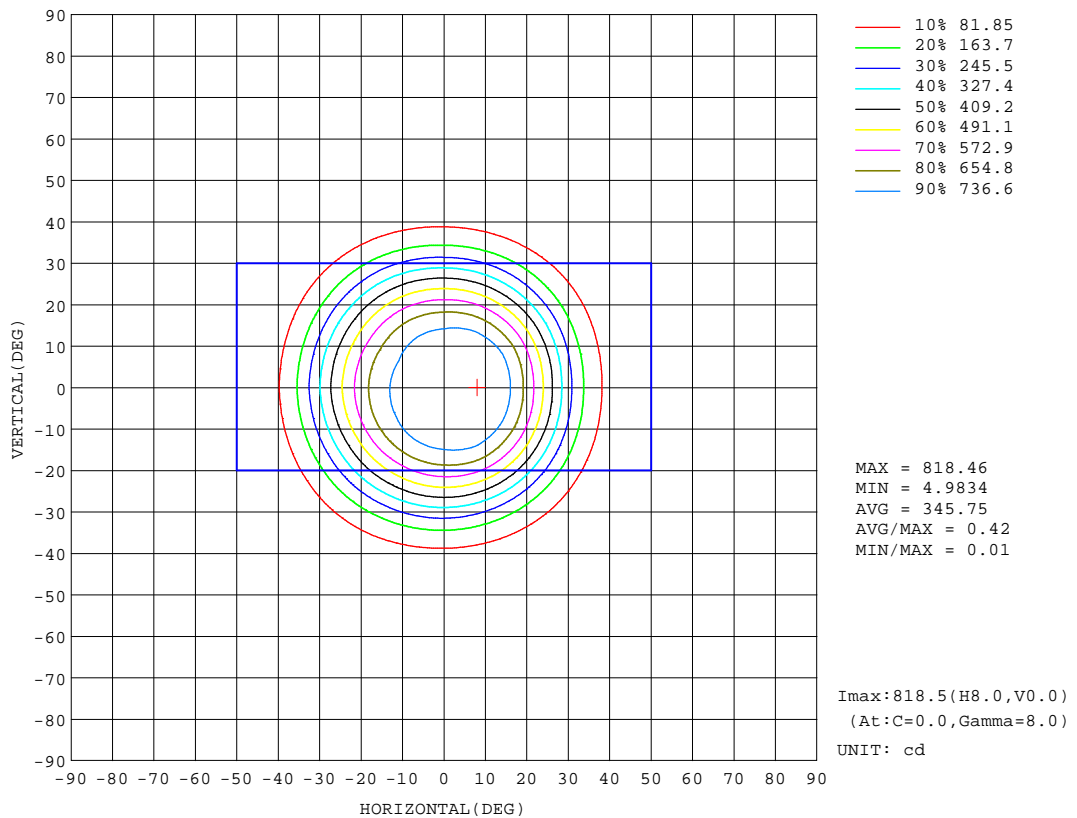
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	72	67	64	71	67	64	71	66	63	61
0.80	78	73	70	77	73	70	76	72	70	67
1.00	81	77	74	81	76	74	79	76	73	70
1.25	84	80	78	84	80	77	82	79	77	73
1.50	87	83	80	86	82	80	84	81	79	75
2.00	89	85	83	88	85	82	85	83	81	77
2.50	90	87	85	89	86	84	86	84	82	78
3.00	91	89	86	90	87	86	87	85	84	79
4.00	93	91	89	91	89	88	88	87	86	80
5.00	94	92	91	92	91	89	89	88	87	81
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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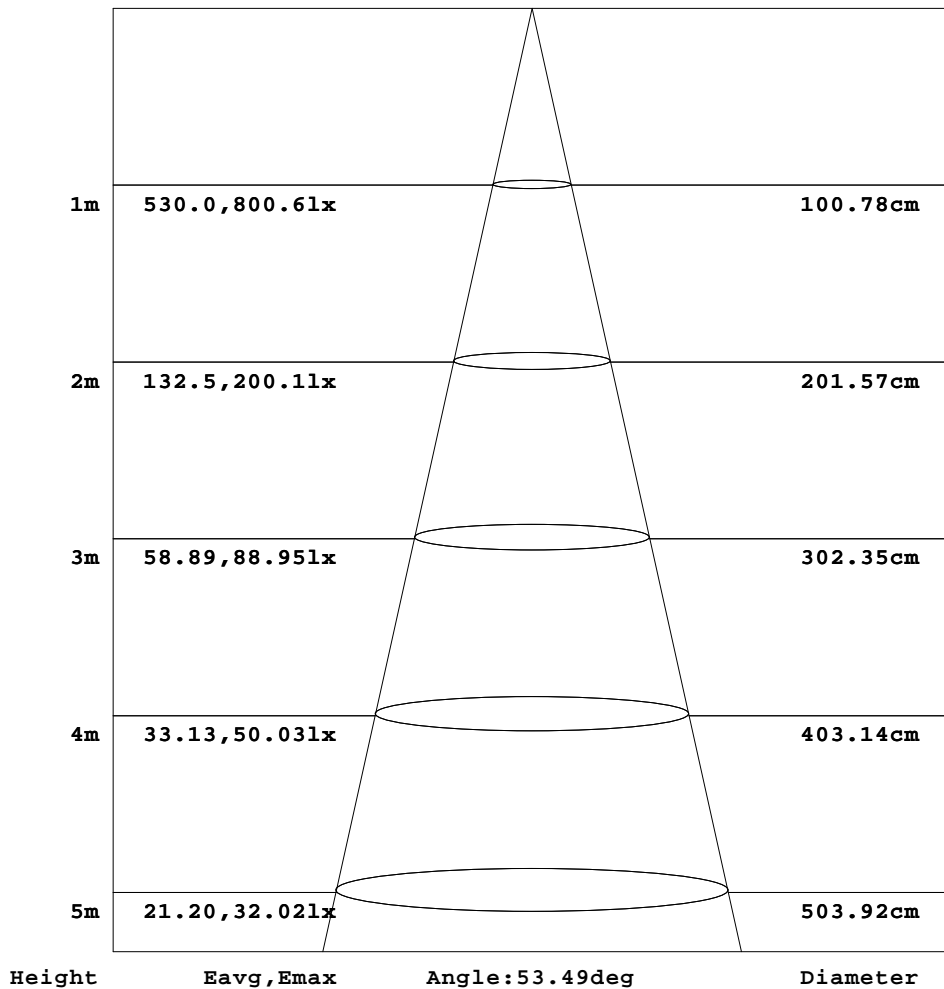
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30minutes warm-up

AAI Figure

Test:U:119.93V I:0.0785A P:9.2609W PF:0.9815 Freq:59.98Hz Lamp Flux:760.254x1 lm		
NAME: 2218.510-LEA-09	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2303170327
MFR.: RISE	SUR.:0.001589625m2	Shielding Angle:

Flux out:432.3 lm



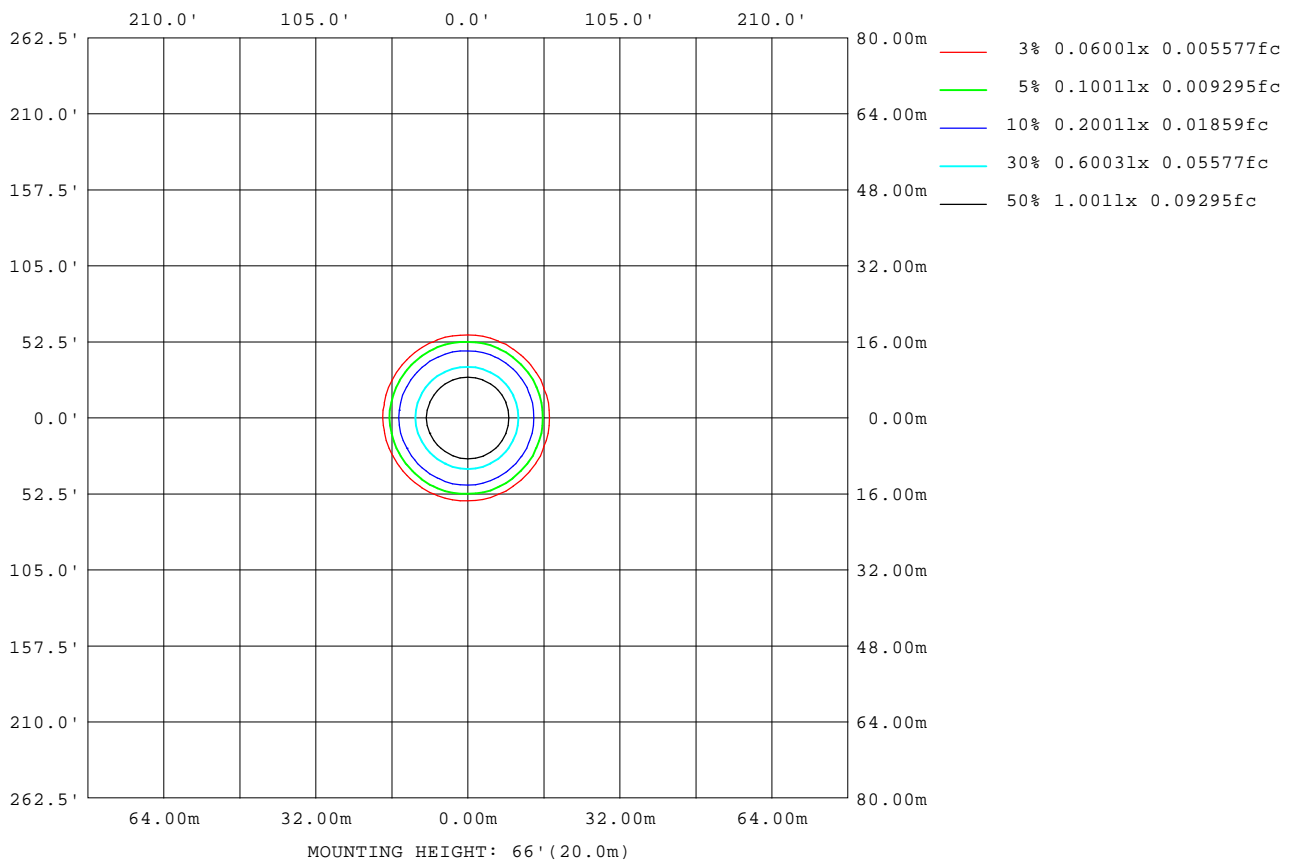
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zoe
Test Date:2023-03-17

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-1084C 50R
DRIVER:PUP10A-1WMC-700 400mA
30minutes warm-up

ISOLUX DIAGRAM

Test:U:119.93V I:0.0785A P:9.2609W PF:0.9815 Freq:59.98Hz Lamp Flux:760.254x1 lm		
NAME: 2218.510-LEA-09	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2303170327
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:2023-03-17

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-1084C 50R
DRIVER:PUP10A-1WMC-700 400mA
30minutes warm-up

LED Avg.L Report

Test:U:119.93V I:0.0785A P:9.2609W PF:0.9815 Freq:59.98Hz Lamp Flux:760.254x1 lm		
NAME: 2218.510-LEA-09	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2303170327
MFR.: RISE	SUR.:0.001589625m2	Shielding Angle:

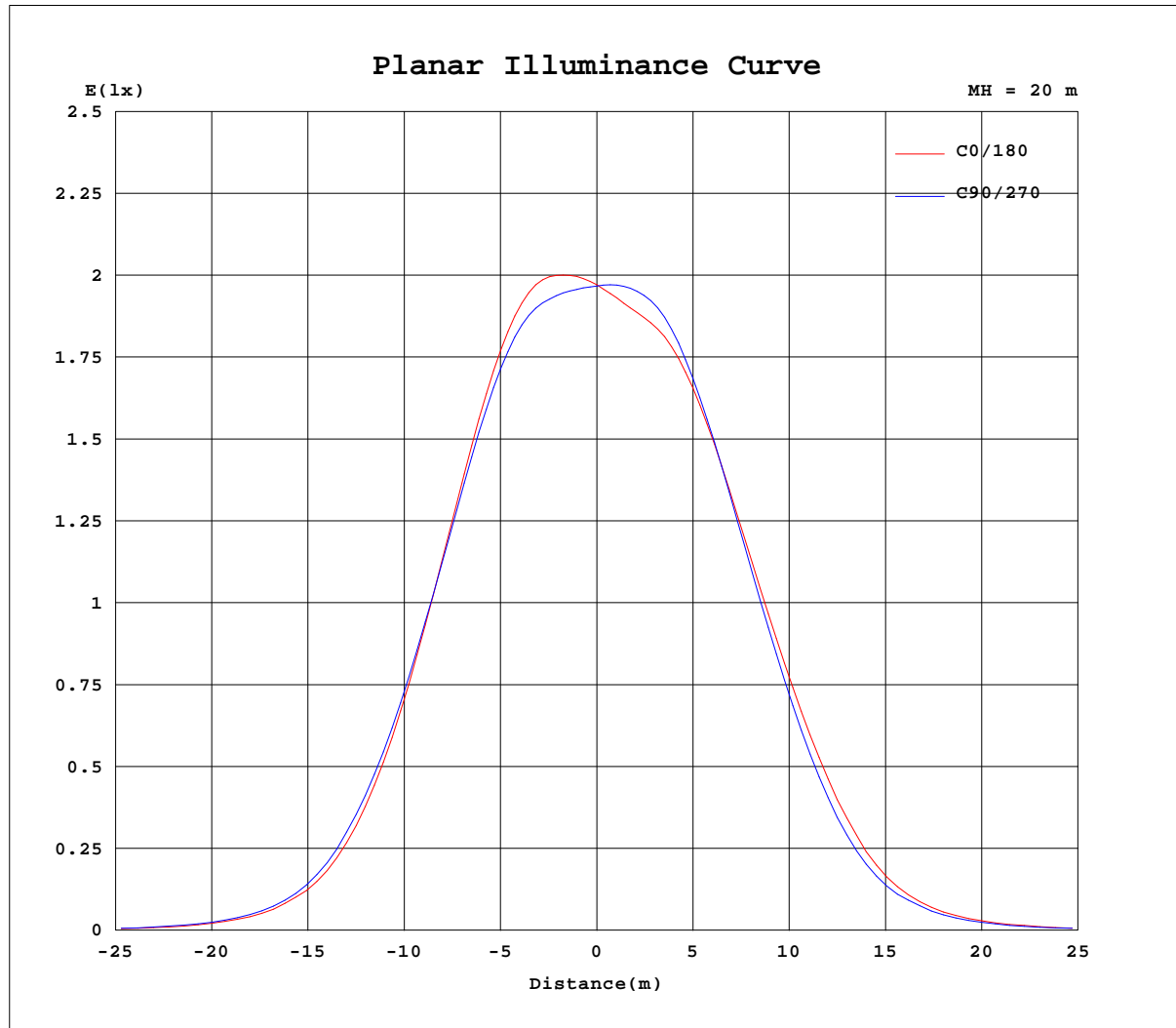
AvgL	cd/m2
L_0~180(65)av	3297
L_0~180(75)av	2948
L_0~180(85)av	3647
L_90~270(65)av	3270
L_90~270(75)av	2463
L_90~270(85)av	1196
L_45(65)av	3301
L_45(75)av	2916
L_45(85)av	182

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zoe
Test Date:2023-03-17

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-1084C 50R
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: 2023-03-17

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-1084C 50R
 DRIVER: PUP10A-1WMC-700 400mA
 30minutes warm-up



LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.93V I:0.0785A P:9.2609W PF:0.9815 Freq:59.98Hz Lamp Flux:760.254x1 lm		
NAME: 2218.510-LEA-09	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2303170327
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	788	788	788	788	788	788	788	788	788	788	788	788						
5	809	803	795	788	779	772	768	770	780	794	805	810						
10	815	809	798	787	775	765	758	756	767	784	804	814						
15	758	760	756	736	728	717	711	706	717	722	746	762						
20	628	637	635	619	612	612	613	606	609	607	622	636						
25	452	460	464	461	457	464	478	467	463	454	458	463						
30	273	280	287	294	295	304	325	313	304	289	288	285						
35	133	138	142	151	154	160	175	167	159	147	146	142						
40	58.4	60.7	62.4	66.8	70.7	71.7	78.1	75.6	71.1	67.1	64.4	62.1						
45	25.2	26.5	27.4	29.1	30.1	31.1	33.4	32.2	31.0	28.4	28.1	27.1						
50	10.8	11.4	11.9	12.8	13.2	13.4	14.2	13.9	13.4	12.4	12.1	11.6						
55	5.64	5.90	6.21	6.71	6.98	7.06	7.29	7.15	6.88	6.35	6.16	5.97						
60	2.97	3.11	3.24	3.48	3.55	3.54	3.68	3.52	3.26	3.06	3.03	3.04						
65	2.08	2.16	2.24	2.27	2.31	2.32	2.35	2.28	2.20	2.13	2.11	2.11						
70	1.49	1.53	1.58	1.54	1.66	1.66	1.70	1.64	1.57	1.52	1.50	1.50						
75	1.14	1.19	1.19	0.95	1.26	1.27	1.28	1.24	1.15	1.07	1.08	1.15						
80	0.89	0.83	0.46	0.26	0.63	0.95	0.99	0.88	0.55	0.37	0.40	0.74						
85	0.39	0.01	0.11	0.09	0.03	0.07	0.62	0.03	0.06	0.24	0.15	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						

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
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