

Luminaire Photograph



Light Output Ratio:	83.2%	
Luminaire Power:	20.71 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.50	fine grid method.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Zoe
Test Date: 2022-2-28

g Range: 0 - 180DEG
g 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: CMU1013-0000-000N0U0A30G Ra:90
LENS: PM-1083A 24R
DRIVER: 9290 028 089 500mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

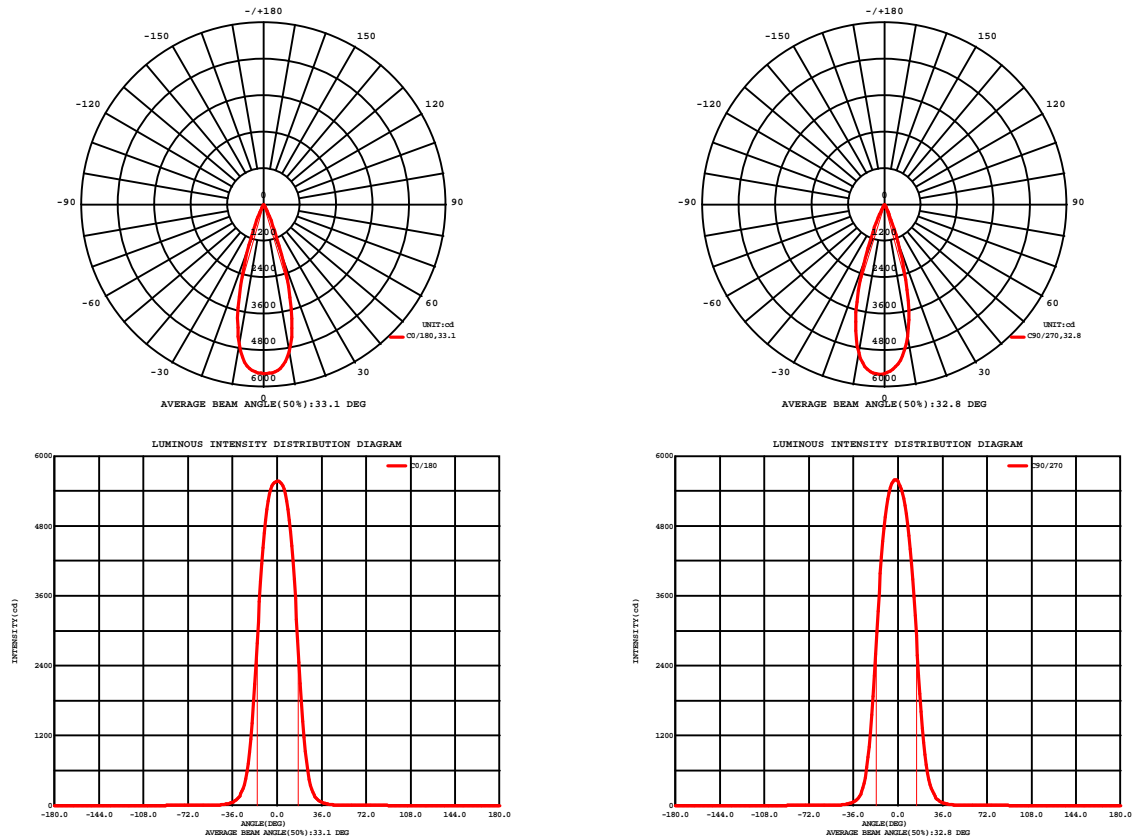


Fig. C0/C180

Fig. C90/C270

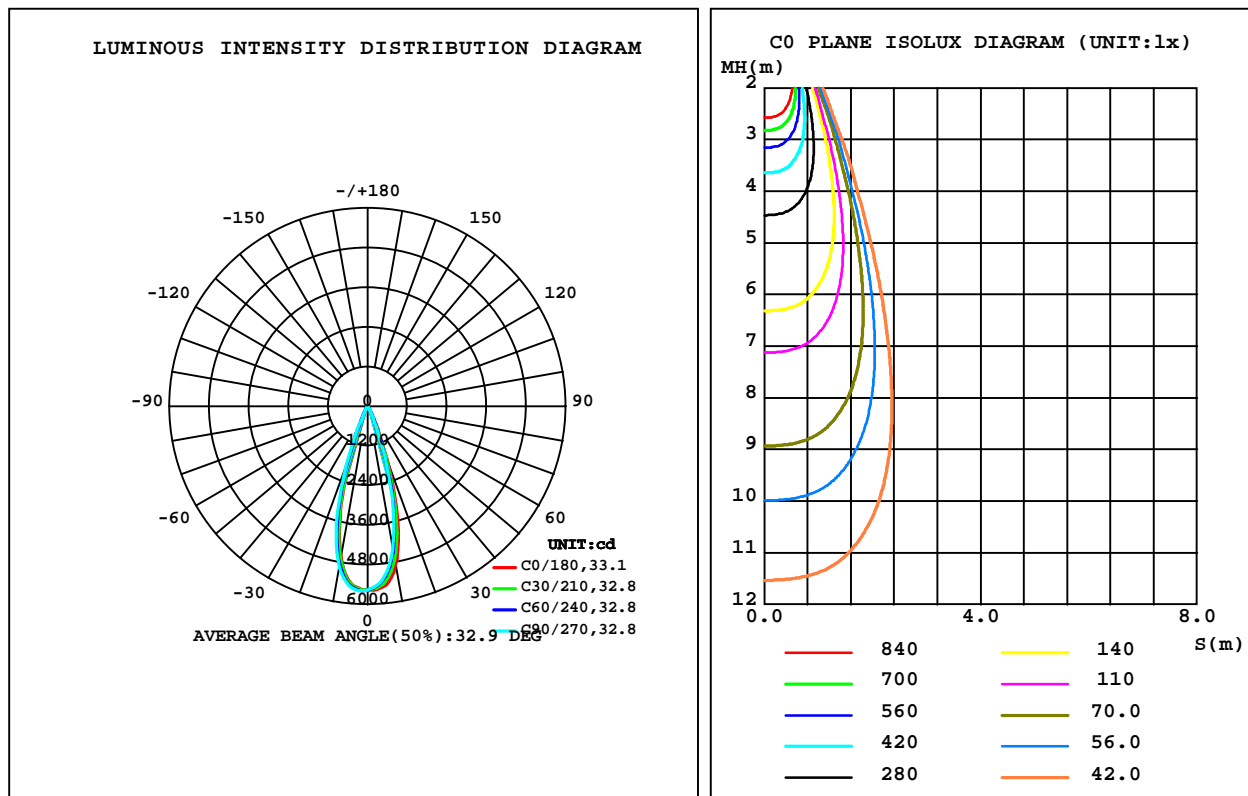
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zoe
Test Date:2022-2-28

Range: 0 - 180DEG
Interval: 1.0DEG
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30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.30V I:0.0971A P:20.712W PF:0.9660 Freq:49.99Hz Lamp Flux:2048.03x1 lm		
NAME: 2118.533-ACOT-37	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2202280115
MFR.: RISE	SUR.:0.003316625m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 82.23 lm/W			
MODEL	CREE	I _{max} (cd)	5597	S/MH(C0/180)	0.50
NOMINAL POWER(W)	20	LOR(%)	83.2	S/MH(C90/270)	0.53
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	1703.2	h UP,DN(C0-180)	0.0,39.6
NOMINAL FLUX(lm)	2048.03	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.0,43.6
LAMPS INSIDE	1	h up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	220	h down(%)	83.2	CIBSE SHR MAX	0.50



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Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.416
Humidity:65.0%
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Remarks: LAMP:CMU1013-0000-000N0U0A30G Ra:90
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ZONAL FLUX DIAGRAM

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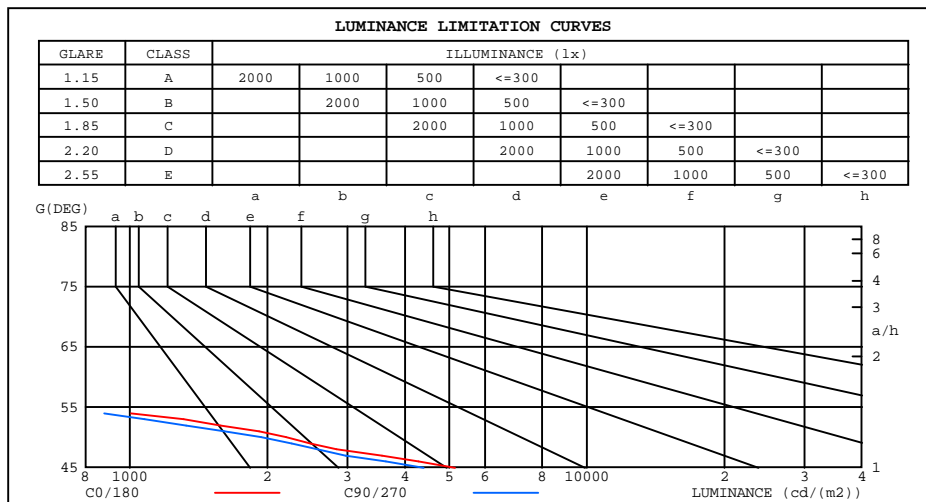
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	4901	4604	4404	4477	4681	4805	4953	5008	0- 10	496.1	496.1	29.1,24.2
20	1761	1517	1328	1284	1417	1634	1874	1857	10- 20	870.3	1366	80.2,66.7
30	180.9	179.3	156.6	145.7	159.6	183.9	190.5	182.1	20- 30	278.1	1644	96.6,80.3
40	29.16	27.68	25.07	25.77	26.80	28.91	29.76	28.58	30- 40	46.95	1691	99.3,82.6
50	4.669	4.685	4.134	4.582	4.352	4.751	4.452	4.666	40- 50	9.865	1701	99.9,83.1
60	0.1358	0.4219	0.3334	0.4736	0.3614	0.4336	0.2215	0.0957	50- 60	1.611	1703	100,83.1
70	0.0475	0.0588	0.1193	0.1473	0.1393	0.0798	0.0385	0.0339	60- 70	0.1925	1703	100,83.2
80	0.0532	0.0279	0.0364	0.0288	0.0493	0.0258	0.0406	0.0290	70- 80	0.0472	1703	100,83.2
90	0	0	0	0	0	0	0	0	80- 90	0.0326	1703	100,83.2
100	0	0	0	0	0	0	0	0	90-100	0	1703	100,83.2
110	0	0	0	0	0	0	0	0	100-110	0	1703	100,83.2
120	0	0	0	0	0	0	0	0	110-120	0	1703	100,83.2
130	0	0	0	0	0	0	0	0	120-130	0	1703	100,83.2
140	0	0	0	0	0	0	0	0	130-140	0	1703	100,83.2
150	0	0	0	0	0	0	0	0	140-150	0	1703	100,83.2
160	0	0	0	0	0	0	0	0	150-160	0	1703	100,83.2
170	0	0	0	0	0	0	0	0	160-170	0	1703	100,83.2
180	0	0	0	0	0	0	0	0	170-180	0	1703	100,83.2
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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LUMINANCE LIMITATION CURVES

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NAME: 2118.533-ACOT-37	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2202280115
MFR.: RISE	SUR.:0.003316625m2	Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	169	141
80	93	63
75	56	54
70	42	105
65	39	172
60	82	201
55	776	722
50	2197	1939
45	5155	4399

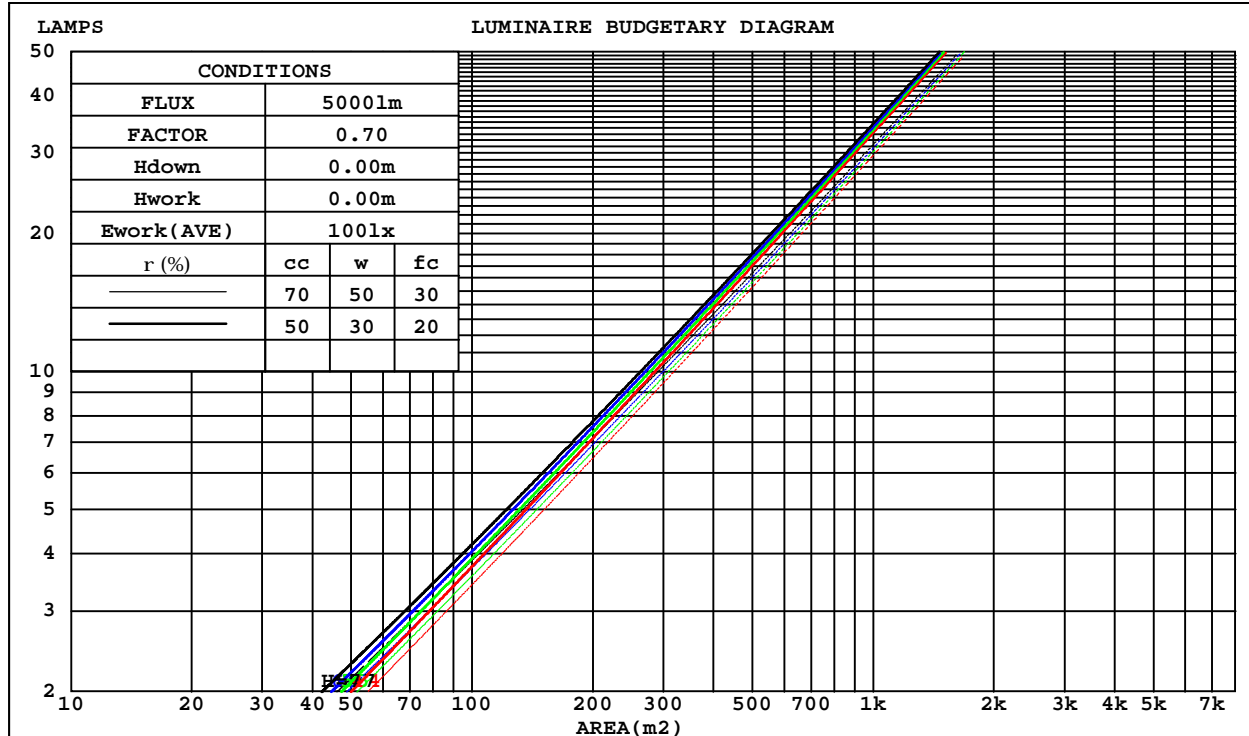
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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rcc	80%			70%			50%			30%			10%			0
r _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r _{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio Coefficients of Utilization(CU)															
0.0	.99	.99	.99	.97	.97	.97	.92	.92	.92	.88	.88	.88	.85	.85	.85	.83
1.0	.94	.92	.91	.92	.91	.89	.89	.88	.87	.86	.85	.84	.83	.82	.82	.80
2.0	.89	.87	.85	.88	.86	.84	.85	.84	.82	.83	.82	.80	.81	.80	.79	.77
3.0	.85	.82	.80	.84	.82	.79	.82	.80	.78	.80	.79	.77	.79	.77	.76	.75
4.0	.82	.79	.76	.81	.78	.76	.79	.77	.75	.78	.76	.74	.77	.75	.73	.72
5.0	.79	.75	.73	.78	.75	.73	.77	.74	.72	.76	.73	.71	.74	.72	.71	.70
6.0	.76	.73	.70	.75	.72	.70	.74	.71	.69	.73	.71	.69	.72	.70	.68	.68
7.0	.73	.70	.67	.73	.70	.67	.72	.69	.67	.71	.69	.67	.70	.68	.66	.65
8.0	.71	.68	.65	.71	.67	.65	.70	.67	.65	.69	.66	.65	.68	.66	.64	.63
9.0	.69	.65	.63	.68	.65	.63	.68	.65	.63	.67	.65	.63	.67	.64	.62	.62
10.0	.67	.63	.61	.66	.63	.61	.66	.63	.61	.65	.63	.61	.65	.62	.61	.60



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WEC AND CCEC

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NAME: 2118.533-ACOT-37	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2202280115
MFR.: RISE	SUR.:0.003316625m2	Shielding Angle:

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio Wall Exitance Coefficients(WEC)															
0.0																
1.0	.115	.065	.021	.110	.063	.020	.099	.057	.018	.090	.052	.017	.081	.047	.015	
2.0	.107	.059	.018	.102	.056	.017	.094	.052	.016	.086	.048	.015	.079	.045	.014	
3.0	.100	.053	.016	.096	.051	.015	.089	.048	.015	.082	.045	.014	.076	.042	.013	
4.0	.094	.049	.014	.091	.047	.014	.085	.045	.013	.079	.042	.013	.074	.040	.012	
5.0	.088	.045	.013	.086	.044	.013	.081	.042	.012	.076	.040	.012	.071	.038	.011	
6.0	.084	.042	.012	.082	.041	.012	.077	.040	.012	.073	.038	.011	.069	.036	.011	
7.0	.080	.040	.011	.078	.039	.011	.074	.037	.011	.070	.036	.011	.067	.035	.010	
8.0	.076	.037	.010	.075	.037	.010	.071	.036	.010	.068	.034	.010	.065	.033	.010	
9.0	.073	.035	.010	.072	.035	.010	.069	.034	.010	.066	.033	.009	.063	.032	.009	
10.0	.070	.034	.009	.069	.033	.009	.066	.032	.009	.064	.032	.009	.061	.031	.009	

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio Ceiling Cavity Exitance Coefficients(CCEC)															
0.0	.158	.158	.158	.135	.135	.135	.092	.092	.092	.053	.053	.053	.017	.017	.017	
1.0	.140	.131	.123	.120	.113	.106	.082	.077	.073	.047	.045	.043	.015	.014	.014	
2.0	.125	.110	.098	.107	.095	.085	.073	.066	.059	.042	.038	.035	.014	.012	.011	
3.0	.113	.094	.079	.097	.081	.069	.066	.056	.048	.038	.033	.028	.012	.011	.009	
4.0	.102	.081	.065	.088	.070	.057	.060	.049	.040	.035	.029	.024	.011	.009	.008	
5.0	.094	.071	.055	.081	.062	.047	.056	.043	.034	.032	.025	.020	.010	.008	.007	
6.0	.087	.063	.046	.074	.055	.040	.051	.038	.028	.030	.022	.017	.010	.007	.006	
7.0	.080	.056	.039	.069	.049	.034	.048	.034	.024	.028	.020	.014	.009	.007	.005	
8.0	.075	.051	.034	.065	.044	.029	.045	.031	.021	.026	.018	.012	.008	.006	.004	
9.0	.070	.046	.029	.061	.040	.026	.042	.028	.018	.024	.017	.011	.008	.005	.004	
10.0	.066	.042	.026	.057	.036	.022	.040	.026	.016	.023	.015	.010	.008	.005	.003	

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UGR(Unified Glare Rating) Table

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SPEC.:3000K					DIM.:			SERIAL No.:2202280115		
MFR.: RISE					SUR.:0.003316625m2			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	8.1	8.7	8.3	8.9	9.0	7.3	8.0	7.5	8.1	8.3
3H	7.9	8.6	8.2	8.7	8.9	7.2	7.8	7.4	8.0	8.1
4H	7.9	8.4	8.1	8.7	8.9	7.1	7.7	7.3	7.9	8.1
6H	7.8	8.3	8.1	8.6	8.8	7.0	7.5	7.3	7.8	8.0
8H	7.7	8.3	8.0	8.5	8.8	6.9	7.5	7.2	7.7	8.0
12H	7.7	8.2	8.0	8.5	8.7	6.9	7.4	7.2	7.7	7.9
4H 2H	7.9	8.4	8.1	8.7	8.9	7.1	7.7	7.3	7.9	8.1
3H	7.7	8.2	8.0	8.5	8.7	6.9	7.4	7.2	7.7	7.9
4H	7.6	8.1	7.9	8.4	8.7	6.8	7.3	7.1	7.6	7.9
6H	7.5	7.9	7.9	8.2	8.6	6.7	7.1	7.1	7.5	7.8
8H	7.4	7.8	7.8	8.2	8.5	6.7	7.0	7.0	7.4	7.8
12H	7.4	7.7	7.8	8.1	8.5	6.6	7.0	7.0	7.3	7.7
8H 4H	7.4	7.8	7.8	8.2	8.5	6.7	7.0	7.0	7.4	7.8
6H	7.3	7.6	7.7	8.0	8.4	6.5	6.9	7.0	7.3	7.7
8H	7.3	7.5	7.7	8.0	8.4	6.5	6.8	6.9	7.2	7.6
12H	7.2	7.4	7.7	7.9	8.4	6.4	6.7	6.9	7.1	7.6
12H 4H	7.4	7.7	7.8	8.1	8.5	6.6	7.0	7.0	7.3	7.7
6H	7.3	7.5	7.7	8.0	8.4	6.5	6.8	6.9	7.2	7.6
8H	7.2	7.4	7.7	7.9	8.4	6.4	6.7	6.9	7.1	7.6
Variations with the observer position at spacings:										
S = 1.0H	+ 3.7 / -17.0					+ 3.5 / -15.8				
1.5H	+ 5.9 / -11.4					+ 5.7 / -10.8				
2.0H	+ 7.0 / -17.8					+ 6.6 / -12.8				

CIE Pub.117, 2048 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 2.5$)
Area: 0.00331663 m2

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UTILIZATION FACTORS TABLE

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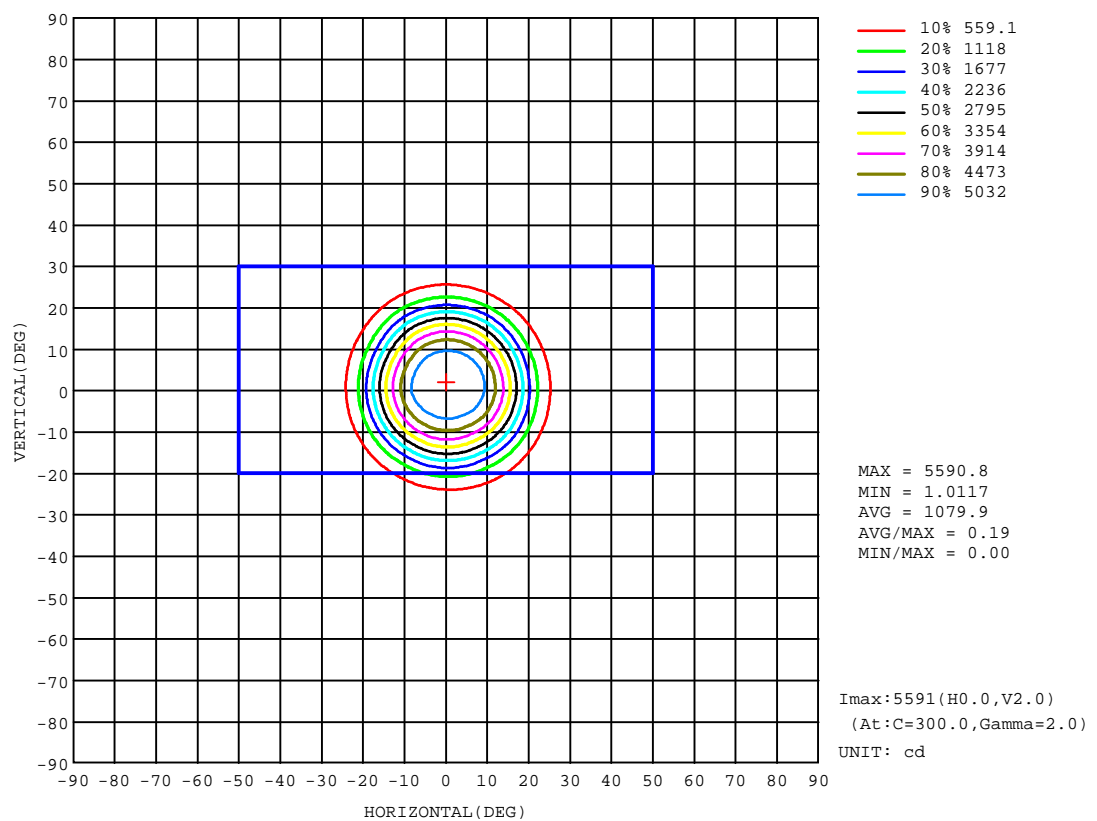
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	76	71	68	75	71	68	75	71	68	65
0.80	82	77	75	81	77	74	80	77	74	71
1.00	85	81	78	84	80	78	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	91	88	86	90	87	85	88	86	84	80
2.50	93	90	88	91	89	87	89	87	85	81
3.00	94	91	89	92	90	88	90	88	86	81
4.00	95	93	92	94	92	90	91	89	88	82
5.00	96	95	93	94	93	92	91	90	89	83
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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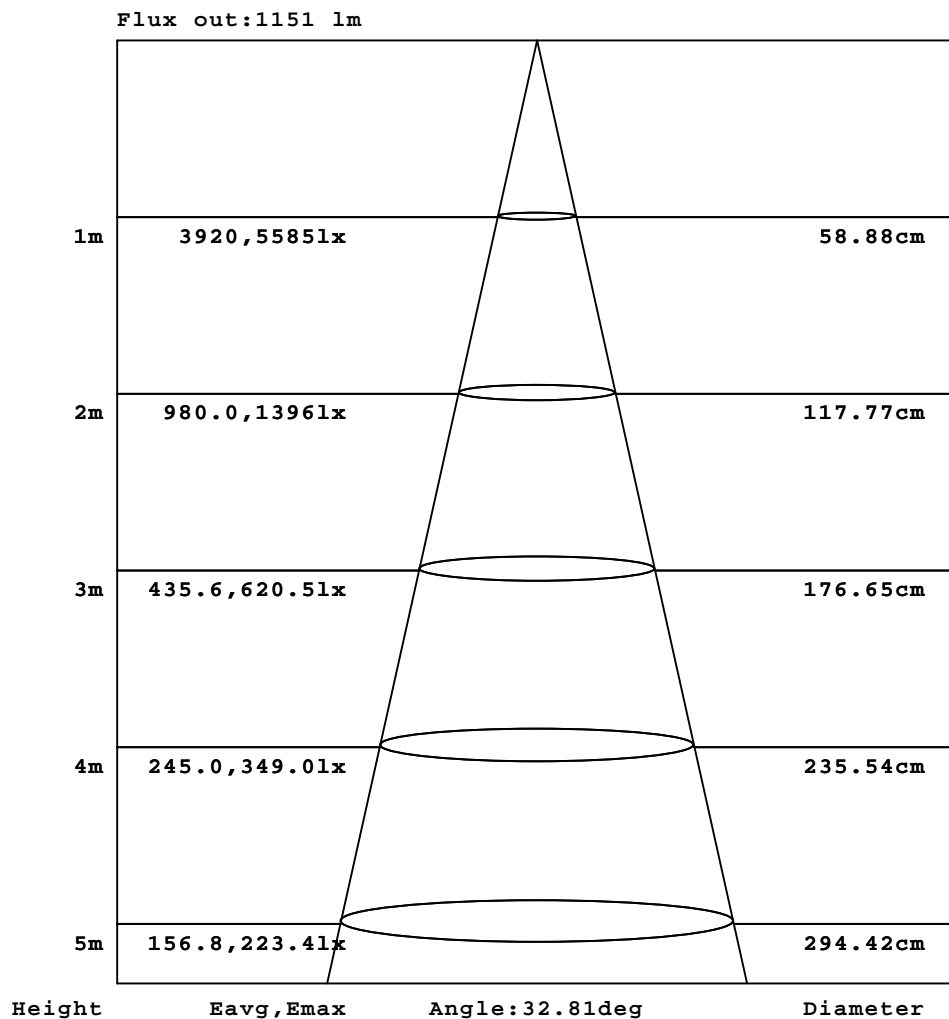


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30minutes warm-up

AAI Figure

Test:U:220.30V I:0.0971A P:20.712W PF:0.9660 Freq:49.99Hz Lamp Flux:2048.03x1 lm		
NAME: 2118.533-ACOT-37	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2202280115
MFR.: RISE	SUR.:0.003316625m2	Shielding Angle:



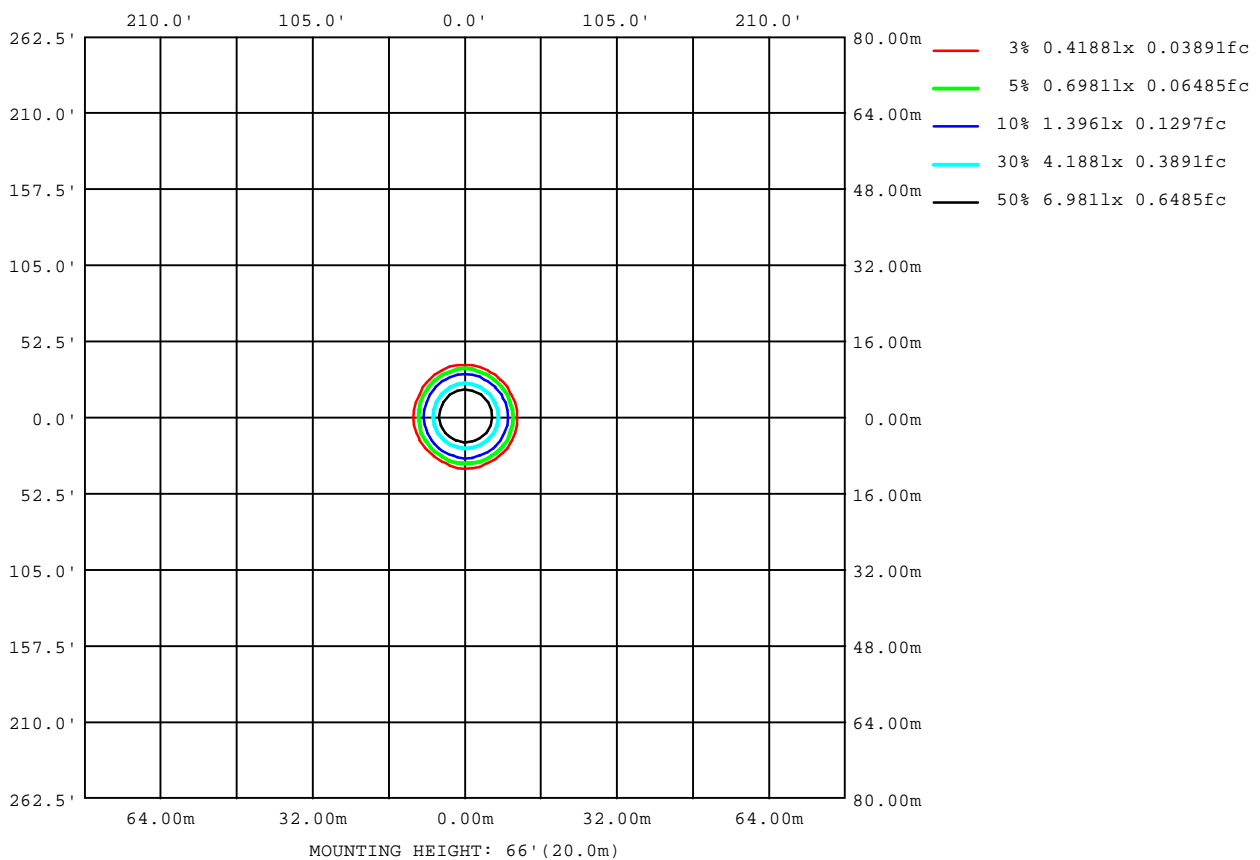
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zoe
Test Date:2022-2-28

g 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:CMU1013-0000-000N0U0A30G Ra:90
LENS:PM-1083A 24R
DRIVER:9290 028 089 500mA
30minutes warm-up

ISOLUX DIAGRAM

Test:U:220.30V I:0.0971A P:20.712W PF:0.9660 Freq:49.99Hz Lamp Flux:2048.03x1 lm		
NAME: 2118.533-ACOT-37	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2202280115
MFR.: RISE	SUR.:0.003316625m2	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zoe
Test Date:2022-2-28

g Range: 0 - 180DEG
g 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:CMU1013-0000-000N0U0A30G Ra:90
LENS:PM-1083A 24R
DRIVER:9290 028 089 500mA
30minutes warm-up

LED Avg.L Report

Test:U:220.30V I:0.0971A P:20.712W PF:0.9660 Freq:49.99Hz Lamp Flux:2048.03x1 lm		
NAME: 2118.533-ACOT-37	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2202280115
MFR.: RISE	SUR.:0.003316625m2	Shielding Angle:

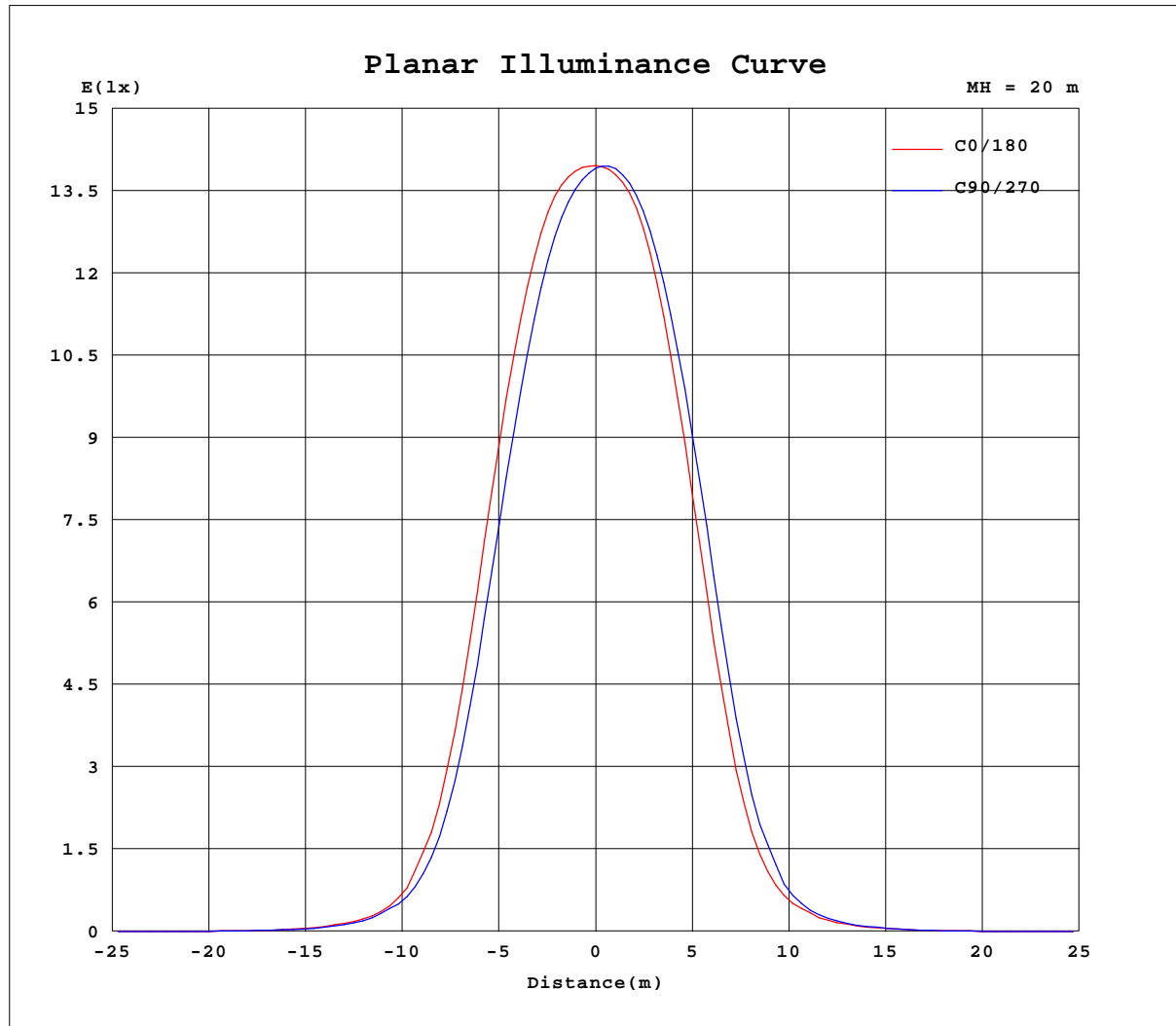
AvgL	cd/m2
L_0~180(65)av	110
L_0~180(75)av	66
L_0~180(85)av	165
L_90~270(65)av	111
L_90~270(75)av	51
L_90~270(85)av	143
L_45(65)av	167
L_45(75)av	38
L_45(85)av	78

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zoe
Test Date:2022-2-28

g 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:CMU1013-0000-000N0U0A30G Ra:90
LENS:PM-1083A 24R
DRIVER:9290 028 089 500mA
30minutes warm-up

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Zoe
 Test Date: 2022-2-28

deg 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: CMU1013-0000-000N0U0A30G Ra:90
 LENS: PM-1083A 24R
 DRIVER: 9290 028 089 500mA
 30minutes warm-up

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.30V I:0.0971A P:20.712W PF:0.9660 Freq:49.99Hz Lamp Flux:2048.03x1 lm		
NAME: 2118.533-ACOT-37	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2202280115
MFR.: RISE	SUR.:0.003316625m2	Shielding Angle:

Table--1

UNIT: cd

C(°) g (°)	0	30	60	90	120	150	180	210	240	270	300	330						
0	5566	5566	5566	5566	5566	5566	5566	5566	5566	5566	5566	5566						
5	5488	5405	5298	5266	5272	5359	5426	5439	5492	5522	5550	5540						
10	4901	4726	4481	4404	4414	4541	4681	4724	4885	4953	5002	5014						
15	3551	3316	3017	2917	2880	3005	3150	3244	3543	3667	3676	3632						
20	1761	1645	1390	1328	1250	1318	1417	1478	1790	1874	1902	1812						
25	602	542	477	445	392	416	454	474	590	655	607	614						
30	181	190	168	157	140	151	160	164	204	190	192	172						
35	73.4	71.0	66.7	60.9	58.0	62.9	64.5	67.7	74.3	73.8	69.6	68.7						
40	29.2	29.3	26.0	25.1	24.7	26.8	26.8	27.3	30.5	29.8	29.1	28.0						
45	12.0	12.4	11.2	10.3	10.4	11.7	11.1	11.3	13.1	12.1	11.8	11.7						
50	4.67	4.78	4.59	4.13	4.33	4.84	4.35	4.24	5.26	4.45	4.48	4.85						
55	1.47	1.77	1.70	1.37	1.46	1.65	1.49	1.37	1.99	1.37	1.29	1.40						
60	0.14	0.40	0.44	0.33	0.50	0.45	0.36	0.32	0.55	0.22	0.09	0.10						
65	0.05	0.22	0.30	0.24	0.33	0.26	0.26	0.25	0.35	0.07	0.04	0.04						
70	0.05	0.03	0.09	0.12	0.16	0.14	0.14	0.12	0.04	0.04	0.03	0.04						
75	0.05	0.03	0.03	0.05	0.05	0.05	0.06	0.03	0.02	0.04	0.03	0.03						
80	0.05	0.03	0.03	0.04	0.03	0.03	0.05	0.03	0.02	0.04	0.02	0.03						
85	0.05	0.02	0.03	0.04	0.03	0.03	0.05	0.02	0.02	0.04	0.02	0.03						
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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