

Luminaire Photograph



Light Output Ratio:	80.0%	
Luminaire Power:	20.64 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: 2022-3-4

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-1083C 50R
DRIVER: 9290 028 089 500mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

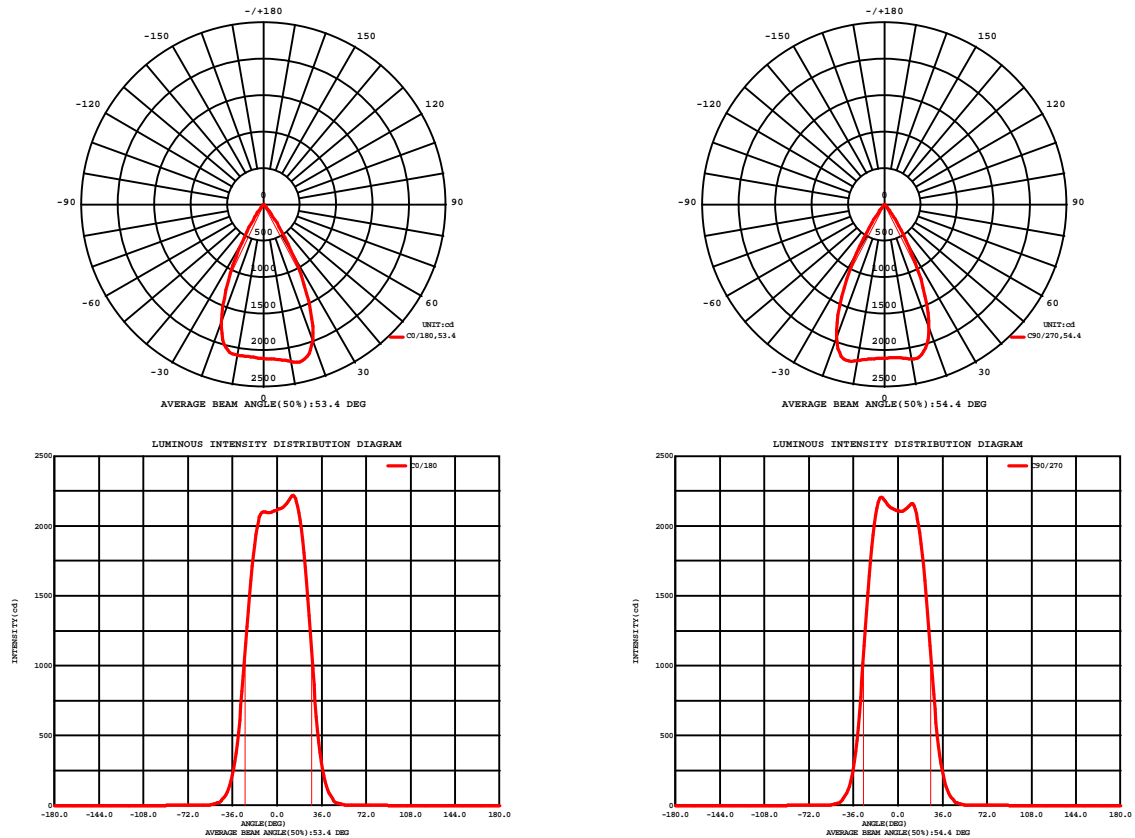


Fig. C0/C180

Fig. C90/C270

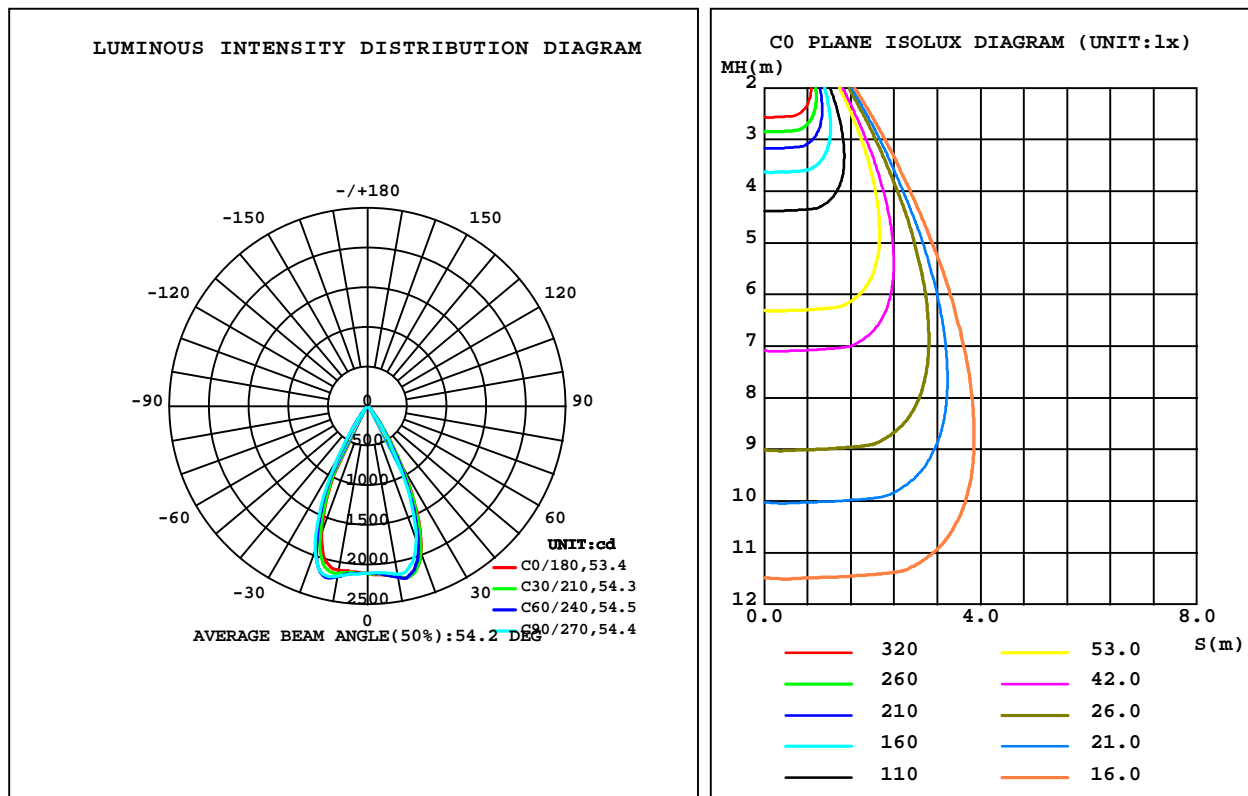
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zoe
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LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.27V I:0.0968A P:20.641W PF:0.9656 Freq:49.99Hz Lamp Flux:2048.03x1 lm		
NAME: 2118.533-ACOT-37	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2203040119
MFR.: RISE	SUR.:0.003316625m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 79.36 lm/W			
MODEL	CREE	I _{max} (cd)	2224	S/MH(C0/180)	0.76
NOMINAL POWER(W)	20	LOR(%)	80.0	S/MH(C90/270)	0.81
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	1638.1	h UP,DN(C0-180)	0.0,39.9
NOMINAL FLUX(lm)	2048.03	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.0,40.1
LAMPS INSIDE	1	h up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	220	h down(%)	80.0	CIBSE SHR MAX	0.80



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ZONAL FLUX DIAGRAM

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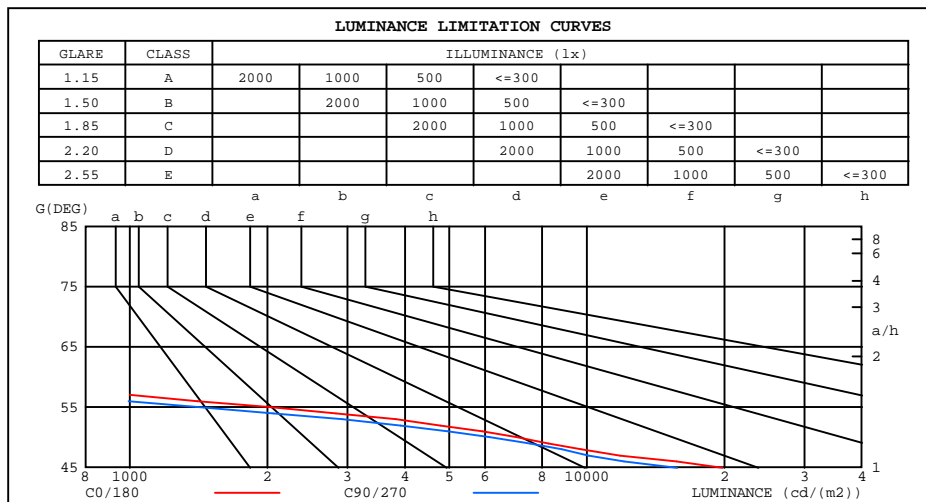
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	2186	2186	2151	2107	2100	2161	2176	2190	0- 10	203.4	203.4	12.4,9.93
20	1975	1920	1792	1725	1711	1830	1937	1960	10- 20	588.5	791.9	48.3,38.7
30	863.4	791.6	690.9	640.3	612.2	678.8	776.7	828.7	20- 30	591.9	1384	84.5,67.6
40	139.1	126.6	110.4	100.1	95.15	101.8	111.0	133.0	30- 40	214.1	1598	97.5,78
50	14.99	14.06	13.06	12.90	12.67	12.65	12.35	15.21	40- 50	35.79	1634	99.7,79.8
60	0.4030	0.1967	0.2814	0.5211	0.5167	0.7220	0.5566	0.5484	50- 60	4.099	1638	100,80
70	0.0483	0.0363	0.0351	0.0695	0.1708	0.1992	0.1690	0.0716	60- 70	0.2495	1638	100,80
80	0.0358	0.0240	0.0275	0.0233	0.0379	0.0235	0.0317	0.0231	70- 80	0.0465	1638	100,80
90	0	0	0	0	0	0	0	0	80- 90	0.0262	1638	100,80
100	0	0	0	0	0	0	0	0	90-100	0	1638	100,80
110	0	0	0	0	0	0	0	0	100-110	0	1638	100,80
120	0	0	0	0	0	0	0	0	110-120	0	1638	100,80
130	0	0	0	0	0	0	0	0	120-130	0	1638	100,80
140	0	0	0	0	0	0	0	0	130-140	0	1638	100,80
150	0	0	0	0	0	0	0	0	140-150	0	1638	100,80
160	0	0	0	0	0	0	0	0	150-160	0	1638	100,80
170	0	0	0	0	0	0	0	0	160-170	0	1638	100,80
180	0	0	0	0	0	0	0	0	170-180	0	1638	100,80
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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LUMINANCE LIMITATION CURVES

Test:U:220.27V I:0.0968A P:20.641W PF:0.9656 Freq:49.99Hz Lamp Flux:2048.03x1 lm		
NAME: 2118.533-ACOT-37	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2203040119
MFR.: RISE	SUR.:0.003316625m2	Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	113	110
80	62	48
75	48	34
70	43	31
65	53	47
60	243	170
55	2025	1411
50	7031	6131
45	19814	15787

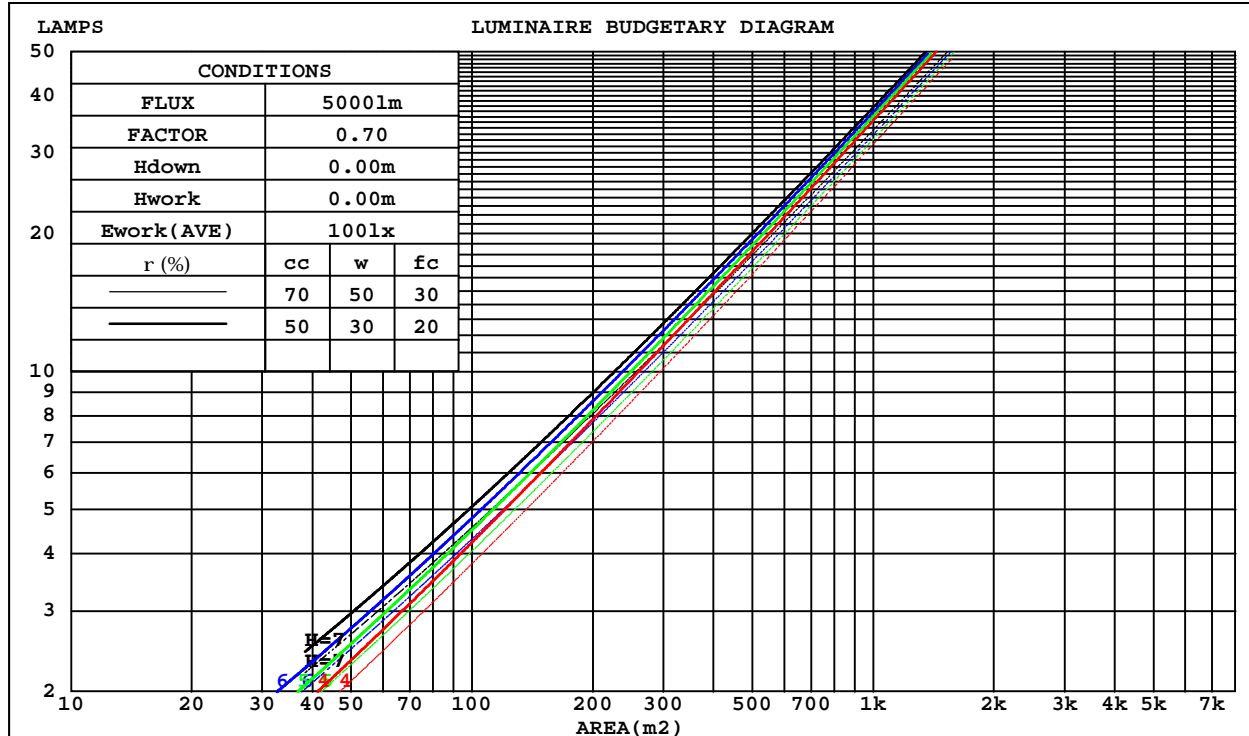
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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rcc	80%			70%			50%			30%			10%			0
rw	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	.95	.95	.95	.93	.93	.93	.89	.89	.89	.85	.85	.85	.82	.82	.82	.80
1.0	.89	.87	.86	.87	.86	.84	.84	.83	.82	.81	.80	.79	.79	.78	.77	.76
2.0	.84	.81	.78	.82	.80	.77	.80	.78	.76	.77	.76	.74	.75	.74	.73	.71
3.0	.79	.75	.72	.78	.74	.72	.76	.73	.70	.74	.71	.69	.72	.70	.68	.67
4.0	.74	.70	.67	.73	.70	.67	.72	.68	.66	.70	.67	.65	.69	.66	.64	.63
5.0	.70	.66	.63	.69	.65	.62	.68	.65	.62	.67	.64	.61	.65	.63	.61	.60
6.0	.66	.62	.59	.66	.62	.59	.65	.61	.58	.63	.60	.58	.62	.60	.58	.56
7.0	.63	.58	.55	.62	.58	.55	.61	.58	.55	.60	.57	.55	.60	.57	.54	.53
8.0	.60	.55	.52	.59	.55	.52	.58	.55	.52	.58	.54	.52	.57	.54	.52	.51
9.0	.57	.52	.50	.56	.52	.49	.56	.52	.49	.55	.52	.49	.54	.51	.49	.48
10.0	.54	.50	.47	.54	.50	.47	.53	.49	.47	.52	.49	.47	.52	.49	.47	.46



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WEC AND CCEC

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SPEC.:3000K	DIM.:	SERIAL No.:2203040119
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	.131	.075	.024	.126	.072	.023	.116	.067	.021	.107	.062	.020	.098	.057	.018	
2.0	.125	.068	.021	.120	.066	.020	.112	.062	.019	.104	.058	.018	.097	.055	.017	
3.0	.119	.063	.019	.115	.061	.018	.108	.058	.018	.101	.055	.017	.095	.053	.016	
4.0	.113	.059	.017	.110	.057	.017	.103	.055	.016	.098	.053	.016	.093	.050	.015	
5.0	.108	.055	.016	.105	.054	.016	.100	.052	.015	.095	.050	.015	.090	.048	.014	
6.0	.103	.052	.015	.100	.051	.015	.096	.049	.014	.091	.048	.014	.087	.046	.014	
7.0	.098	.049	.014	.096	.048	.014	.092	.047	.013	.088	.045	.013	.085	.044	.013	
8.0	.094	.046	.013	.093	.046	.013	.089	.044	.013	.086	.043	.012	.082	.042	.012	
9.0	.091	.044	.012	.089	.043	.012	.086	.042	.012	.083	.041	.012	.080	.041	.012	
10.0	.087	.042	.012	.086	.041	.012	.083	.041	.011	.080	.040	.011	.077	.039	.011	

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	.152	.152	.152	.130	.130	.130	.089	.089	.089	.051	.051	.051	.016	.016	.016	
1.0	.136	.126	.117	.117	.108	.100	.080	.074	.069	.046	.043	.040	.015	.014	.013	
2.0	.123	.106	.092	.106	.091	.079	.072	.063	.055	.042	.037	.032	.013	.012	.011	
3.0	.113	.091	.073	.097	.078	.063	.066	.054	.045	.038	.032	.026	.012	.010	.009	
4.0	.104	.079	.060	.089	.068	.052	.061	.047	.036	.036	.028	.022	.011	.009	.007	
5.0	.097	.069	.049	.083	.060	.043	.057	.042	.030	.033	.025	.018	.011	.008	.006	
6.0	.091	.062	.041	.078	.054	.036	.054	.037	.025	.031	.022	.015	.010	.007	.005	
7.0	.085	.056	.035	.074	.048	.030	.051	.034	.022	.030	.020	.013	.010	.007	.004	
8.0	.081	.051	.030	.070	.044	.026	.048	.031	.018	.028	.018	.011	.009	.006	.004	
9.0	.077	.046	.026	.066	.040	.023	.046	.028	.016	.027	.017	.010	.009	.005	.003	
10.0	.073	.043	.023	.063	.037	.020	.044	.026	.014	.026	.015	.008	.008	.005	.003	

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UGR(Unified Glare Rating) Table

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SPEC.:3000K					DIM.:			SERIAL No.:2203040119		
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	19.4	20.3	19.6	20.5	20.6	18.2	19.1	18.4	19.2	19.4
3H	19.3	20.1	19.5	20.2	20.4	18.1	18.8	18.3	19.0	19.2
4H	19.2	19.9	19.4	20.1	20.4	18.0	18.7	18.2	18.9	19.2
6H	19.1	19.8	19.4	20.0	20.3	17.9	18.6	18.2	18.8	19.1
8H	19.0	19.7	19.3	20.0	20.2	17.8	18.5	18.1	18.8	19.0
12H	19.0	19.6	19.3	19.9	20.2	17.8	18.4	18.1	18.7	19.0
4H 2H	19.2	19.9	19.4	20.1	20.4	18.0	18.7	18.2	18.9	19.2
3H	19.0	19.6	19.3	19.9	20.2	17.8	18.4	18.1	18.7	19.0
4H	18.9	19.5	19.2	19.8	20.1	17.7	18.3	18.0	18.6	18.9
6H	18.8	19.3	19.2	19.7	20.0	17.6	18.1	18.0	18.4	18.8
8H	18.8	19.2	19.1	19.6	19.9	17.6	18.0	17.9	18.4	18.7
12H	18.7	19.1	19.1	19.5	19.9	17.5	17.9	17.9	18.3	18.7
8H 4H	18.8	19.2	19.1	19.6	19.9	17.6	18.0	17.9	18.4	18.7
6H	18.6	19.0	19.1	19.4	19.8	17.4	17.8	17.9	18.2	18.6
8H	18.6	18.9	19.0	19.4	19.8	17.4	17.7	17.8	18.2	18.6
12H	18.5	18.8	19.0	19.3	19.7	17.3	17.6	17.8	18.1	18.5
12H 4H	18.7	19.1	19.1	19.5	19.9	17.5	17.9	17.9	18.3	18.7
6H	18.6	18.9	19.0	19.4	19.8	17.4	17.7	17.8	18.2	18.6
8H	18.5	18.8	19.0	19.3	19.7	17.3	17.6	17.8	18.1	18.5
Variations with the observer position at spacings:										
S = 1.0H	+ 4.1 / -24.9					+ 3.9 / -25.4				
1.5H	+ 6.6 / -18.6					+ 6.4 / -19.0				
2.0H	+ 7.9 / -27.7					+ 7.7 / -26.9				

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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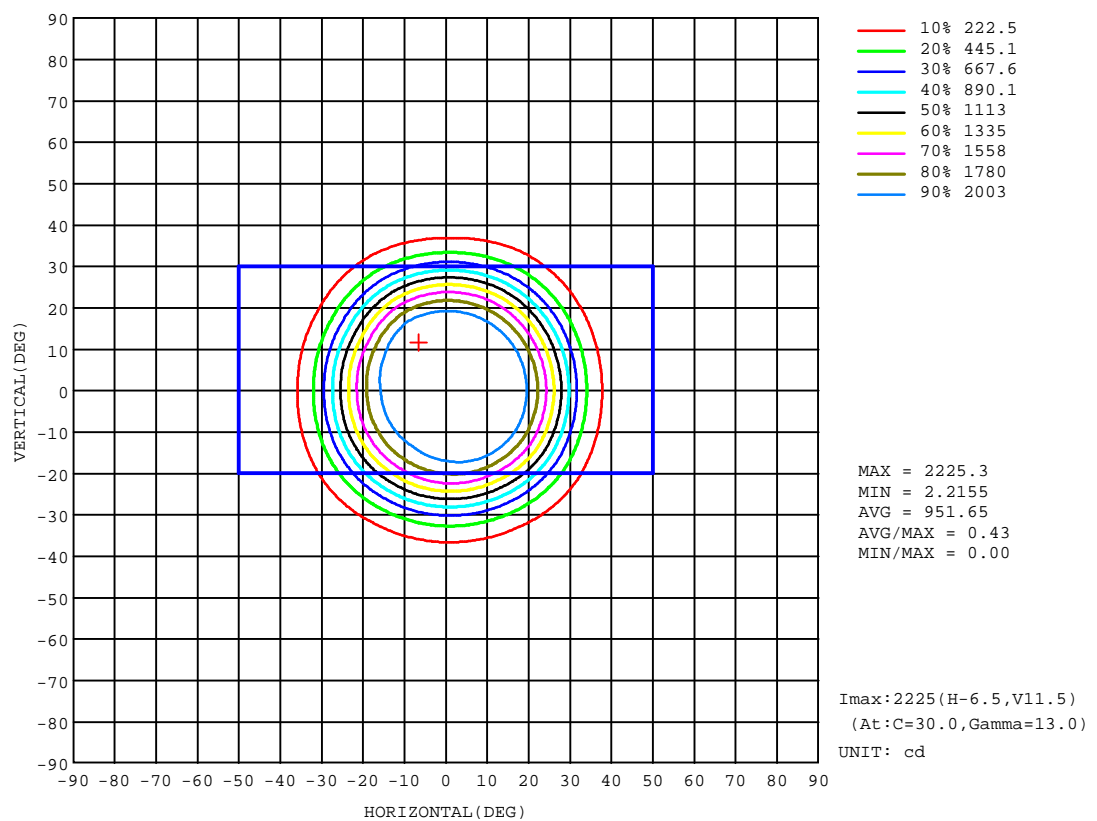
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	72	67	65	72	67	64	71	67	64	62
0.80	78	73	71	77	73	71	76	73	70	68
1.00	81	77	74	80	76	74	79	76	73	71
1.25	84	80	77	83	80	77	81	79	77	73
1.50	86	82	80	85	82	80	83	81	79	75
2.00	88	85	82	87	84	82	84	82	80	76
2.50	89	86	84	88	85	83	85	83	82	77
3.00	90	87	85	89	86	85	86	84	83	78
4.00	91	89	88	90	88	87	87	86	85	79
5.00	92	91	89	91	89	88	88	87	86	80
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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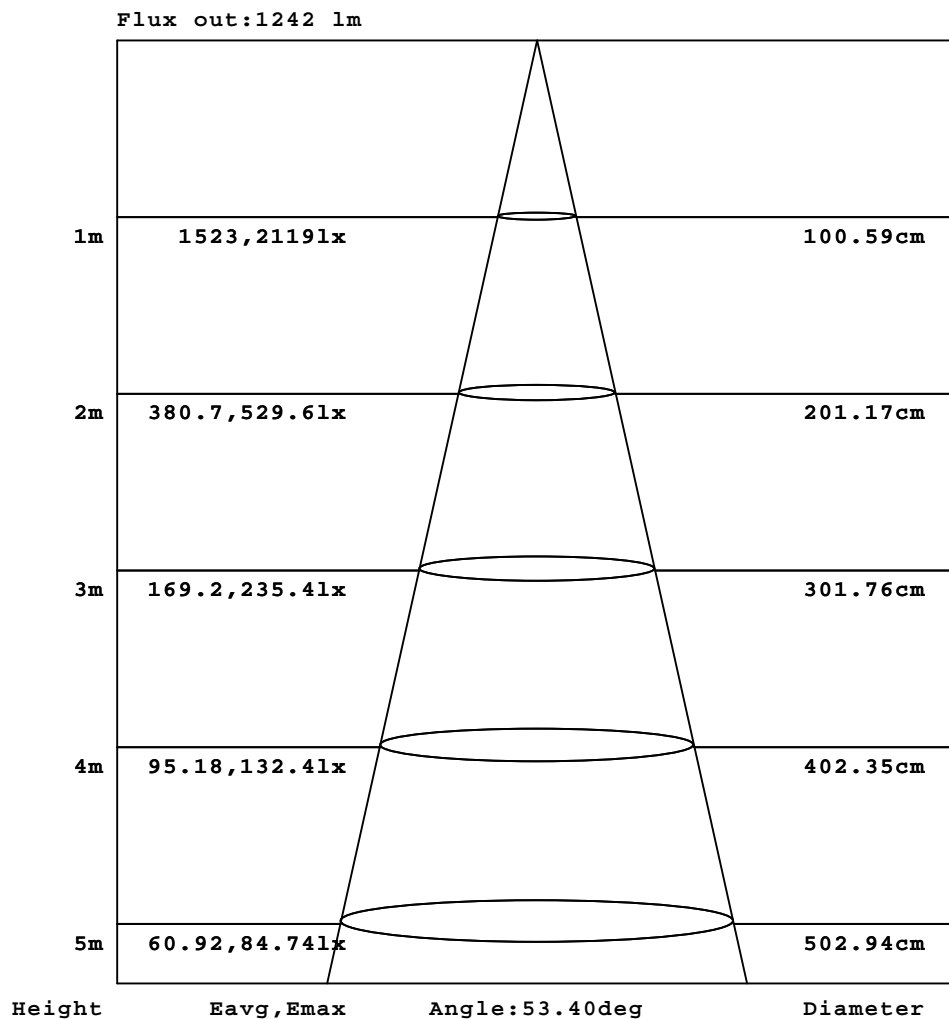


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30minutes warm-up

AAI Figure

Test:U:220.27V I:0.0968A P:20.641W PF:0.9656 Freq:49.99Hz Lamp Flux:2048.03x1 lm		
NAME: 2118.533-ACOT-37	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2203040119
MFR.: RISE	SUR.:0.003316625m2	Shielding Angle:



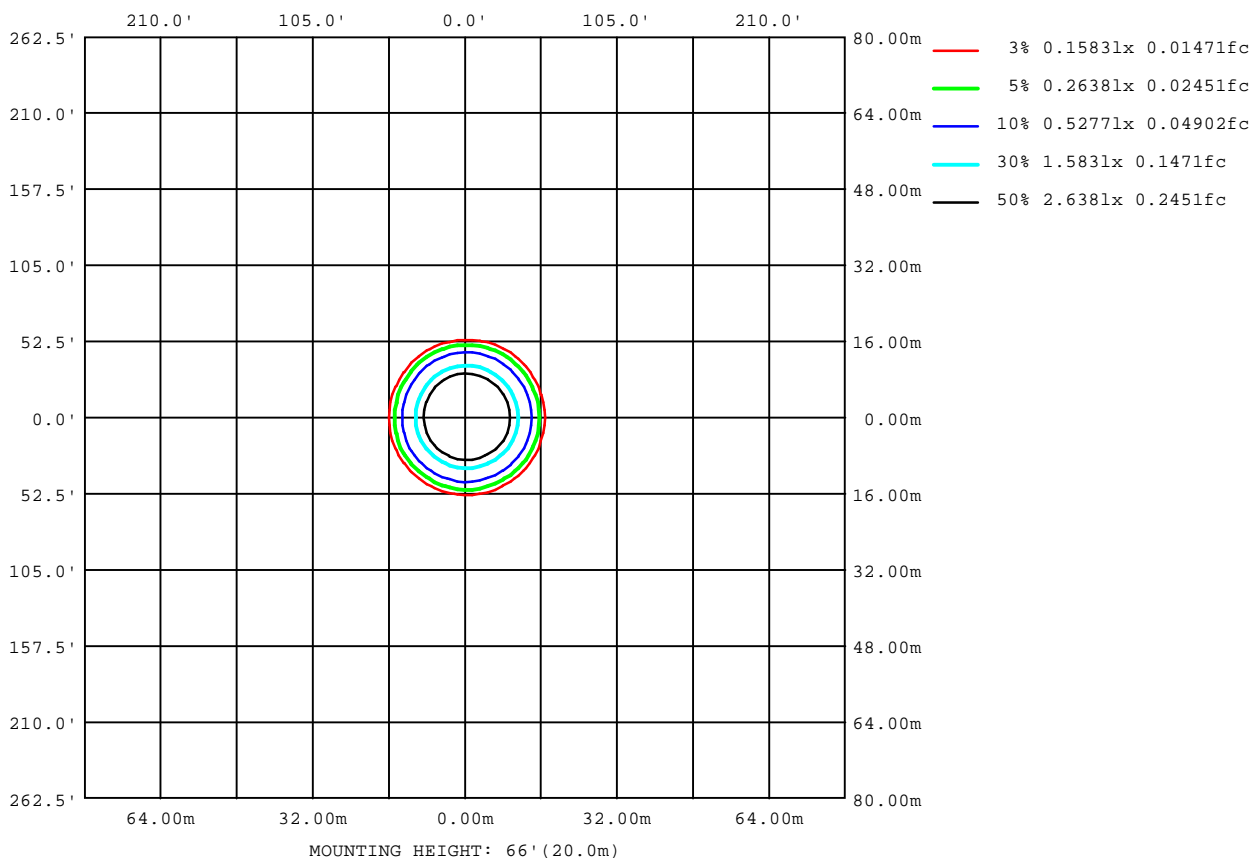
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Zoe
Test Date: 2022-3-4

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-1083C 50R
DRIVER: 9290 028 089 500mA
30minutes warm-up

ISOLUX DIAGRAM

Test:U:220.27V I:0.0968A P:20.641W PF:0.9656 Freq:49.99Hz Lamp Flux:2048.03x1 lm		
NAME: 2118.533-ACOT-37	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2203040119
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:2022-3-4

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-1083C 50R
DRIVER:9290 028 089 500mA
30minutes warm-up

LED Avg.L Report

Test:U:220.27V I:0.0968A P:20.641W PF:0.9656 Freq:49.99Hz Lamp Flux:2048.03x1 lm		
NAME: 2118.533-ACOT-37	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2203040119
MFR.: RISE	SUR.:0.003316625m2	Shielding Angle:

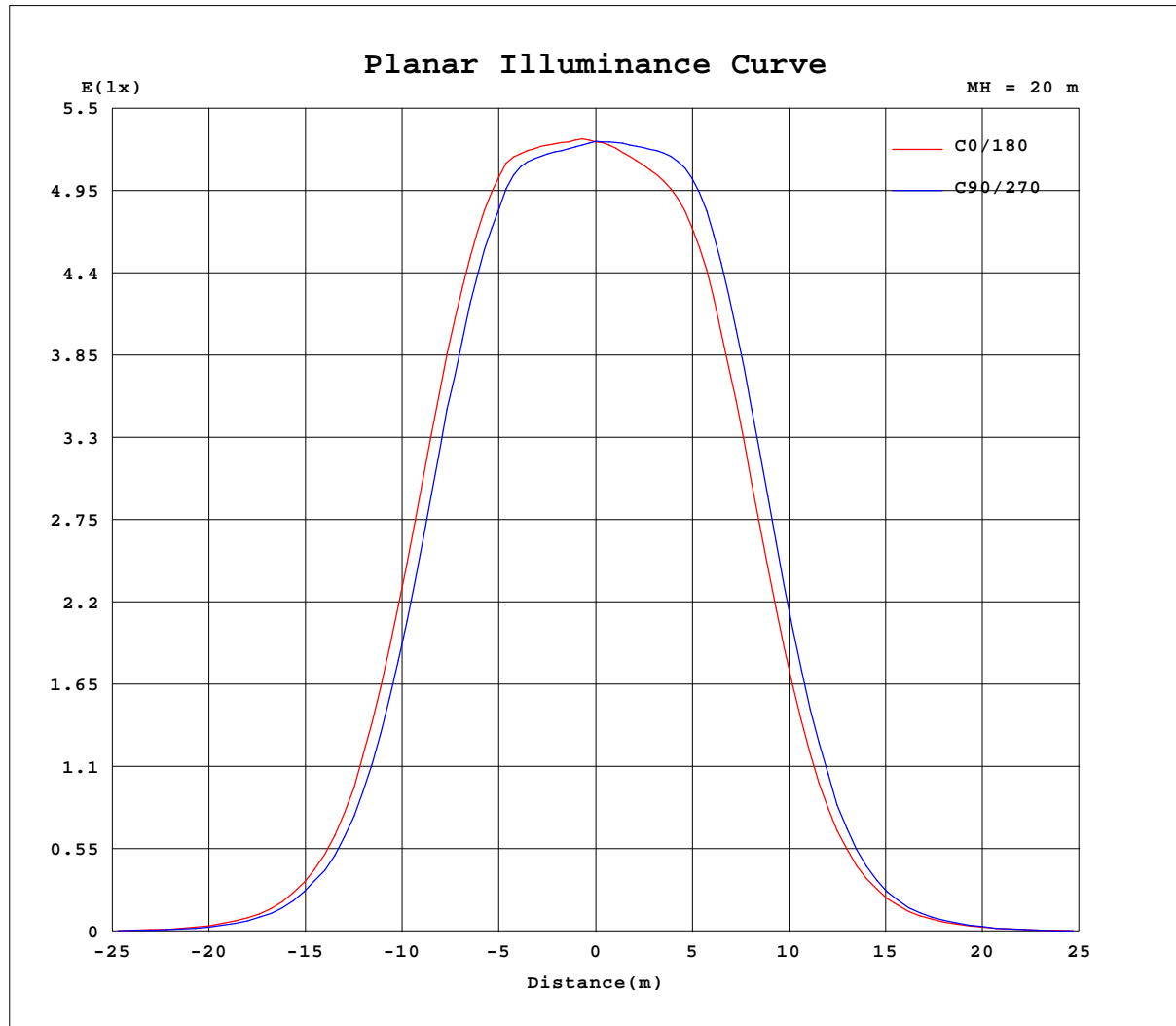
AvgL	cd/m2
L_0~180(65)av	146
L_0~180(75)av	57
L_0~180(85)av	115
L_90~270(65)av	157
L_90~270(75)av	45
L_90~270(85)av	105
L_45(65)av	204
L_45(75)av	38
L_45(85)av	73

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zoe
Test Date:2022-3-4

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-1083C 50R
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: 2022-3-4

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-1083C 50R
 DRIVER: 9290 028 089 500mA
 30minutes warm-up

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.27V I:0.0968A P:20.641W PF:0.9656 Freq:49.99Hz Lamp Flux:2048.03x1 lm		
NAME: 2118.533-ACOT-37	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2203040119
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	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111	2111						
5	2133	2126	2123	2109	2098	2093	2097	2107	2119	2125	2133	2133						
10	2186	2184	2187	2151	2112	2101	2100	2138	2184	2176	2185	2194						
15	2194	2200	2174	2085	2032	2030	2030	2096	2206	2190	2188	2198						
20	1975	1961	1879	1792	1733	1718	1711	1764	1896	1937	1952	1968						
25	1477	1449	1326	1260	1198	1184	1161	1197	1342	1399	1443	1454						
30	863	837	746	691	642	638	612	628	730	777	815	843						
35	377	369	322	299	273	272	259	264	304	318	353	369						
40	139	135	118	110	101	99.5	95.2	96.7	107	111	130	136						
45	46.5	43.4	38.6	37.0	35.0	35.2	33.9	34.7	37.3	38.0	45.3	47.1						
50	15.0	14.8	13.3	13.1	12.9	12.9	12.7	12.6	12.7	12.4	14.9	15.5						
55	3.85	3.46	2.71	2.68	3.00	2.83	2.82	3.33	3.36	2.97	3.82	4.13						
60	0.40	0.27	0.13	0.28	0.53	0.51	0.52	0.75	0.69	0.56	0.61	0.49						
65	0.07	0.06	0.06	0.07	0.37	0.36	0.34	0.34	0.38	0.37	0.42	0.24						
70	0.05	0.04	0.04	0.04	0.04	0.09	0.17	0.19	0.21	0.17	0.11	0.03						
75	0.04	0.03	0.03	0.03	0.02	0.03	0.06	0.06	0.06	0.05	0.02	0.03						
80	0.04	0.02	0.03	0.03	0.02	0.02	0.04	0.02	0.02	0.03	0.02	0.03						
85	0.03	0.02	0.02	0.03	0.02	0.02	0.03	0.02	0.02	0.03	0.02	0.02						
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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