

Luminaire Photograph



Light Output Ratio:	82.7%	
Luminaire Power:	11.1 W	
SHR Nominal:	0.75	Calculated using the TM5
SHR Maximum:	0.85	fine grid method.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: zoe
Test Date: 2023-8-4

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
Humidity: 65.0%
Test Distance: 3.160m [K=1.0000]
Remarks: LAMP: CMA1306-0000-000N0U0A30G Ra:90
LENS: PM-1084C 50R
DRIVER: 9290 028 088 250mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

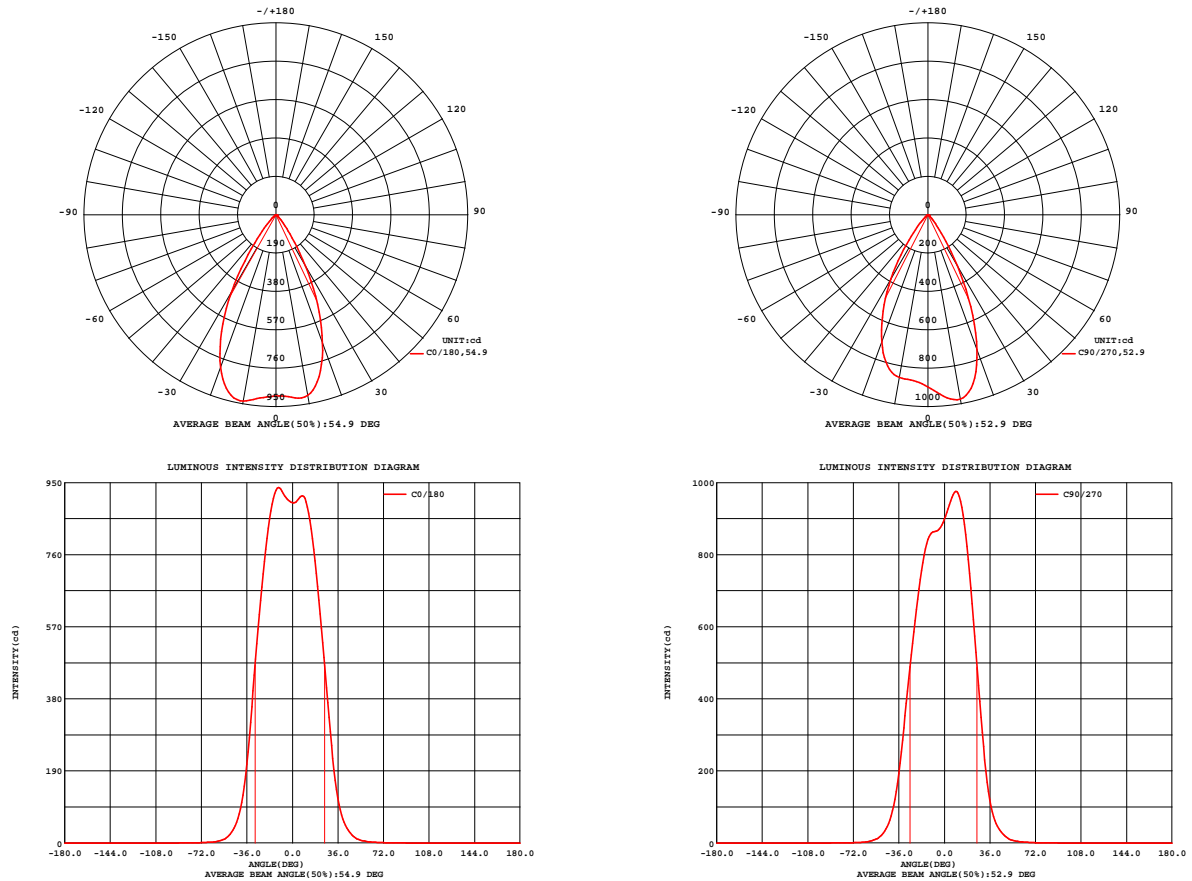


Fig. C0/C180

Fig. C90/C270

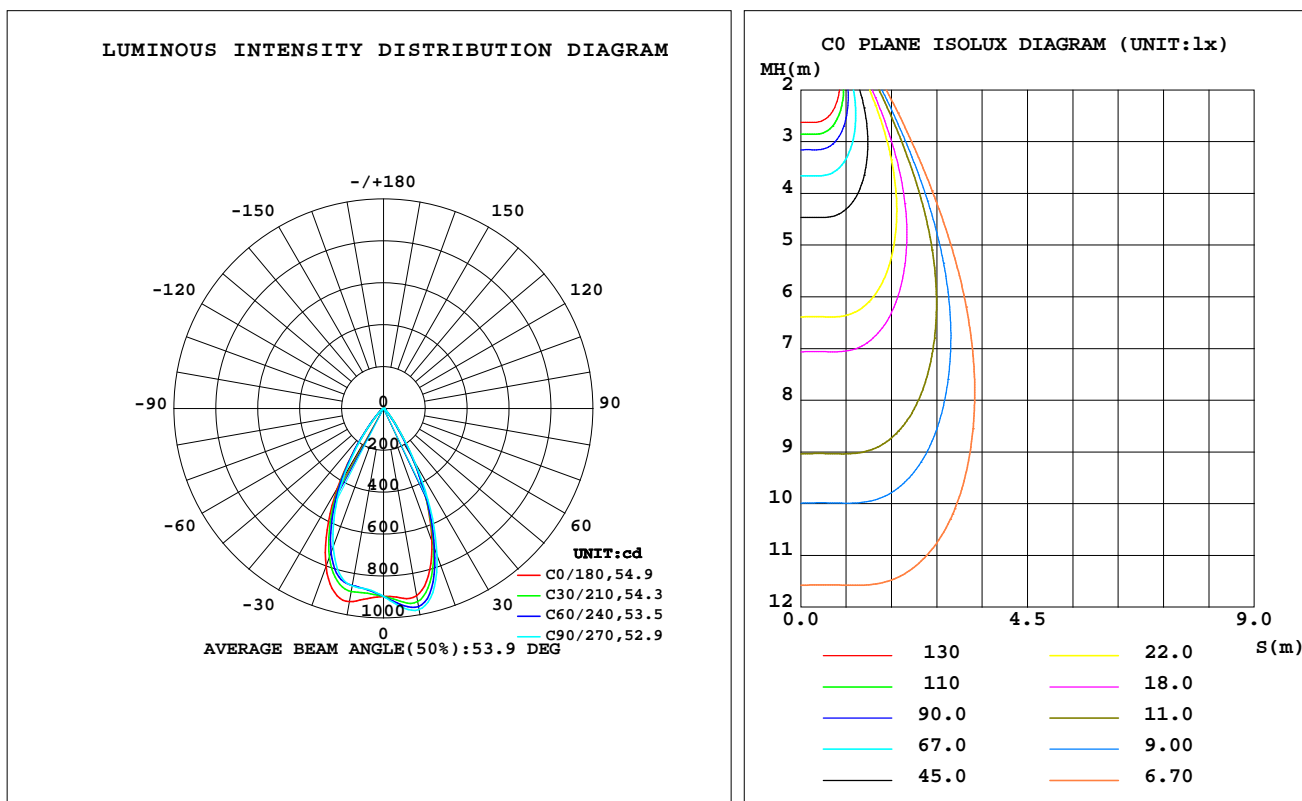
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LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.13V I:0.0522A P:11.098W PF:0.9636 Freq:49.99Hz Lamp Flux:896.707x1 lm		
NAME: 2214.411-1-ACOT-97	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308040975
MFR.: RISE	SUR.: 0.0025m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 66.82 lm/W			
MODEL	CREE	I _{max} (cd)	981.2	S/MH(C0/180)	0.88
NOMINAL POWER(W)	11	LOR(%)	82.7	S/MH(C90/270)	0.85
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	741.52	η UP,DN(C0-180)	0.0,40.0
NOMINAL FLUX(lm)	896.707	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,42.7
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	220	η down(%)	82.7	CIBSE SHR MAX	0.85



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ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	908.0	947.9	975.0	976.4	936.2	872.2	860.2	879.4	0- 10	87.15	87.15	11.8,9.72
20	675.9	706.2	748.3	801.0	803.1	744.6	704.5	700.7	10- 20	239.4	326.5	44,36.4
30	293.2	286.9	307.0	377.9	442.8	418.5	387.3	345.7	20- 30	249.8	576.3	77.7,64.3
40	63.15	59.89	62.63	81.52	106.5	111.1	103.5	81.49	30- 40	120.8	697.1	94,77.7
50	12.97	14.63	13.42	19.76	20.04	24.65	20.12	19.09	40- 50	32.49	729.6	98.4,81.4
60	3.261	4.225	3.433	4.867	3.944	5.663	3.941	4.707	50- 60	8.495	738.1	99.5,82.3
70	1.037	1.341	1.106	1.510	1.230	1.461	1.131	1.279	60- 70	2.448	740.5	99.9,82.6
80	0.4356	0.4835	0.3928	0.4161	0.2729	0.3312	0.2439	0.3732	70- 80	0.7729	741.3	100,82.7
90	0	0	0	0	0	0	0	0	80- 90	0.2341	741.5	100,82.7
100	0	0	0	0	0	0	0	0	90-100	0	741.5	100,82.7
110	0	0	0	0	0	0	0	0	100-110	0	741.5	100,82.7
120	0	0	0	0	0	0	0	0	110-120	0	741.5	100,82.7
130	0	0	0	0	0	0	0	0	120-130	0	741.5	100,82.7
140	0	0	0	0	0	0	0	0	130-140	0	741.5	100,82.7
150	0	0	0	0	0	0	0	0	140-150	0	741.5	100,82.7
160	0	0	0	0	0	0	0	0	150-160	0	741.5	100,82.7
170	0	0	0	0	0	0	0	0	160-170	0	741.5	100,82.7
180	0	0	0	0	0	0	0	0	170-180	0	741.5	100,82.7
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:220.13V I:0.0522A P:11.098W PF:0.9636 Freq:49.99Hz
Lamp Flux:896.707x1 lm

NAME: 2214.411-1-ACOT-97

TYPE:

WEIGHT:

SPEC.: 3000K

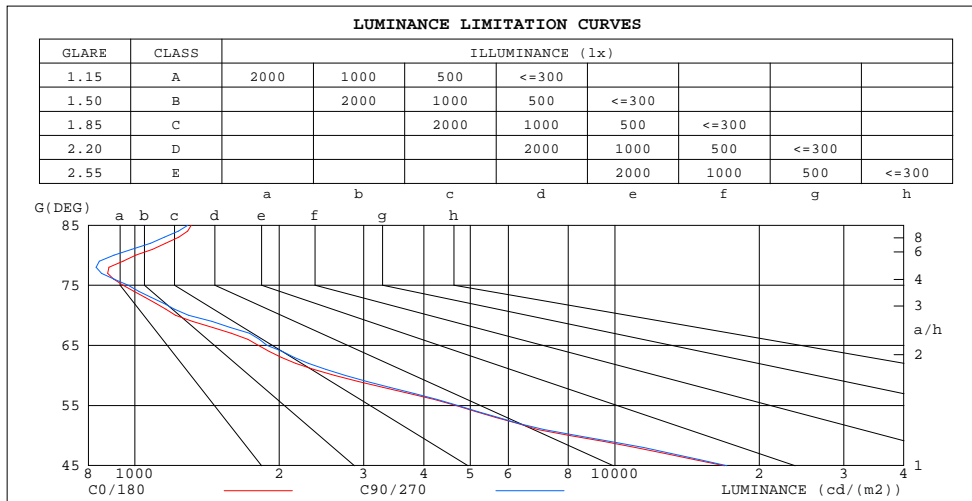
DIM.:

SERIAL No.: 2308040975

MFR.: RISE

SUR.: 0.0025m2

Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	1311	1289
80	1005	905
75	945	968
70	1215	1294
65	1808	1885
60	2613	2748
55	4676	4714
50	8083	8356
45	16910	17132

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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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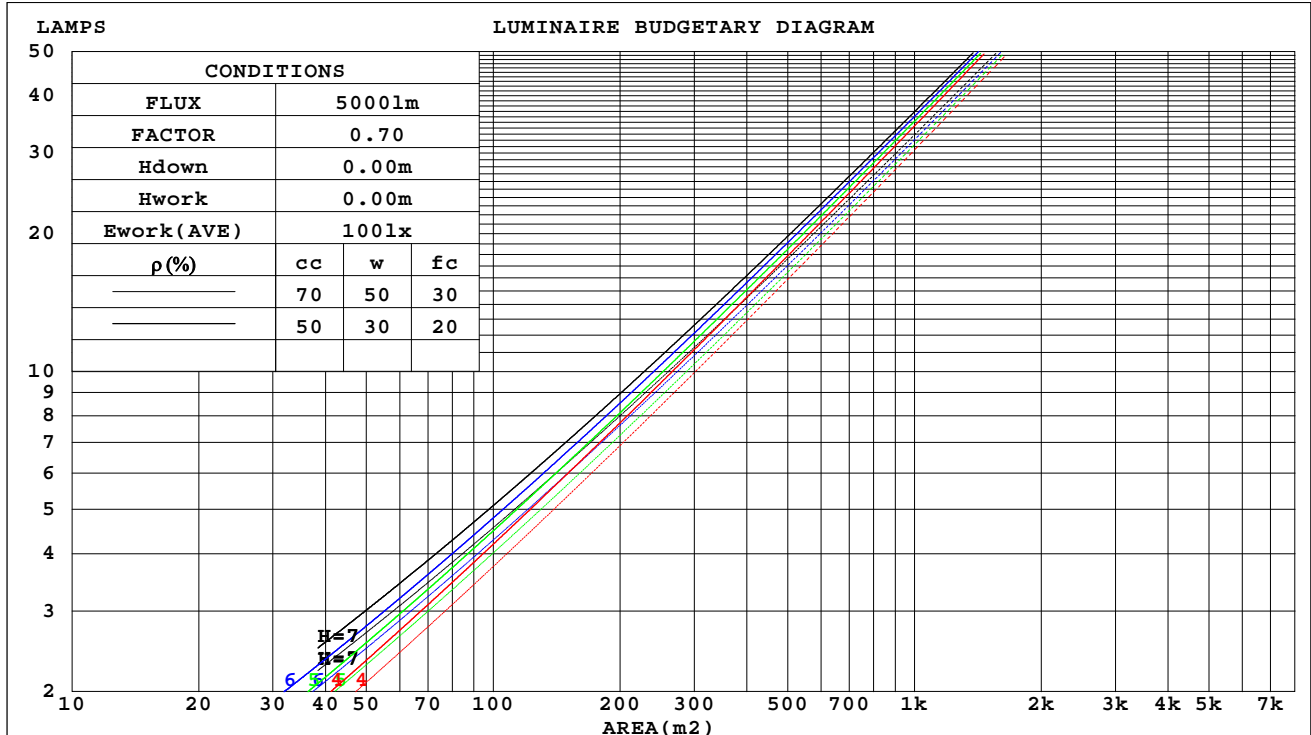
SERIAL No.: 2308040975

MFR.: RISE

SUR.: 0.0025m2

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															



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WEC AND CCEC

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SPEC.: 3000K	DIM.:	SERIAL No.: 2308040975
MFR.: RISE	SUR.: 0.0025m2	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.142	.081	.026	.137	.078	.025	.126	.073	.023	.117	.067	.022	.108	.063	.020	
2.0	.136	.074	.023	.131	.072	.022	.122	.068	.021	.114	.064	.020	.107	.061	.019	
3.0	.129	.069	.021	.125	.067	.020	.118	.064	.019	.111	.061	.019	.105	.058	.018	
4.0	.123	.064	.019	.120	.063	.019	.113	.060	.018	.107	.058	.017	.102	.055	.017	
5.0	.117	.060	.017	.114	.059	.017	.109	.057	.017	.104	.055	.016	.099	.053	.016	
6.0	.112	.056	.016	.109	.055	.016	.105	.054	.016	.100	.052	.015	.096	.050	.015	
7.0	.107	.053	.015	.105	.052	.015	.100	.051	.015	.096	.049	.014	.093	.048	.014	
8.0	.103	.050	.014	.101	.049	.014	.097	.048	.014	.093	.047	.014	.090	.046	.013	
9.0	.098	.048	.013	.097	.047	.013	.093	.046	.013	.090	.045	.013	.087	.044	.013	
10.0	.094	.045	.013	.093	.045	.013	.090	.044	.012	.087	.043	.012	.084	.042	.012	

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	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	.141	.130	.120	.121	.112	.103	.083	.077	.071	.048	.044	.042	.015	.014	.013		
2.0	.128	.110	.094	.110	.094	.081	.075	.065	.057	.043	.038	.033	.014	.012	.011		
3.0	.118	.094	.075	.101	.081	.065	.069	.056	.045	.040	.033	.027	.013	.011	.009		
4.0	.109	.082	.061	.094	.071	.053	.064	.049	.037	.037	.029	.022	.012	.009	.007		
5.0	.102	.072	.050	.088	.062	.043	.060	.044	.031	.035	.026	.018	.011	.008	.006		
6.0	.096	.064	.042	.082	.056	.036	.057	.039	.026	.033	.023	.015	.011	.007	.005		
7.0	.090	.058	.035	.078	.050	.031	.054	.035	.022	.031	.021	.013	.010	.007	.004		
8.0	.086	.053	.030	.074	.046	.026	.051	.032	.019	.030	.019	.011	.010	.006	.004		
9.0	.081	.048	.026	.070	.042	.023	.049	.030	.016	.028	.017	.010	.009	.006	.003		
10.0	.078	.045	.023	.067	.039	.020	.046	.027	.014	.027	.016	.008	.009	.005	.003		

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30minutes warm-up

UGR(Unified Glare Rating) Table

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NAME: 2214.411-1-ACOT-97					TYPE:			WEIGHT:		
SPEC.: 3000K					DIM.:			SERIAL No.: 2308040975		
MFR.: RISE					SUR.: 0.0025m2			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	17.1	18.0	17.3	18.2	18.4	17.1	18.0	17.3	18.1	18.3
3H	17.0	17.8	17.2	18.0	18.2	16.9	17.8	17.2	18.0	18.2
4H	16.9	17.7	17.2	17.9	18.1	16.8	17.6	17.1	17.8	18.1
6H	16.8	17.6	17.1	17.8	18.0	16.8	17.5	17.1	17.7	18.0
8H	16.8	17.5	17.1	17.7	18.0	16.7	17.4	17.0	17.7	17.9
12H	16.7	17.4	17.1	17.7	18.0	16.7	17.4	17.0	17.6	17.9
4H 2H	16.9	17.7	17.2	17.9	18.1	16.8	17.6	17.1	17.9	18.1
3H	16.8	17.4	17.1	17.7	18.0	16.7	17.4	17.0	17.7	17.9
4H	16.7	17.3	17.0	17.6	17.9	16.6	17.2	17.0	17.5	17.8
6H	16.6	17.1	17.0	17.5	17.8	16.5	17.1	16.9	17.4	17.8
8H	16.6	17.1	16.9	17.4	17.8	16.5	17.0	16.9	17.3	17.7
12H	16.5	17.0	16.9	17.3	17.7	16.4	16.9	16.9	17.3	17.7
8H 4H	16.5	17.0	16.9	17.4	17.8	16.5	17.0	16.9	17.3	17.7
6H	16.5	16.9	16.9	17.3	17.7	16.4	16.8	16.8	17.2	17.6
8H	16.4	16.8	16.9	17.2	17.6	16.4	16.7	16.8	17.1	17.6
12H	16.4	16.7	16.8	17.1	17.6	16.3	16.6	16.8	17.1	17.5
12H 4H	16.5	17.0	16.9	17.3	17.7	16.4	16.9	16.8	17.3	17.7
6H	16.4	16.8	16.9	17.2	17.6	16.3	16.7	16.8	17.1	17.6
8H	16.4	16.7	16.8	17.1	17.6	16.3	16.6	16.8	17.1	17.5
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 3.3 / - 7.9					+ 3.5 / - 7.7				
1.5H	+ 5.2 / - 6.2					+ 5.4 / - 6.2				
2.0H	+ 5.3 / - 5.0					+ 5.5 / - 4.6				

CIE Pub.117, 896.7 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.4)
Area: 0.0025 m2

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UTILIZATION FACTORS TABLE

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MFR.: RISE	SUR.: 0.0025m2	Shielding Angle:

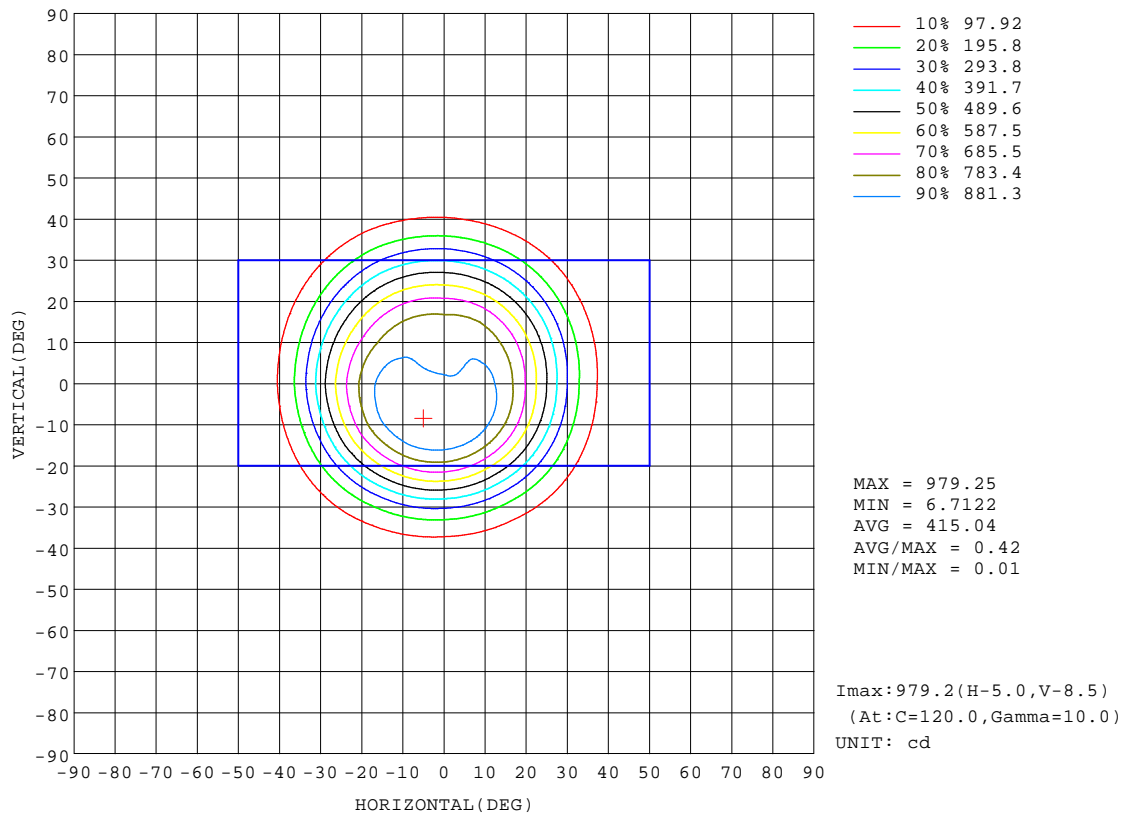
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	73	67	64	72	67	64	72	67	64	61
0.80	79	74	71	78	74	71	77	73	70	68
1.00	82	78	75	82	77	75	80	77	74	71
1.25	86	81	79	85	81	78	83	80	78	74
1.50	88	84	81	87	83	81	85	82	80	76
2.00	90	87	84	89	86	83	87	84	82	78
2.50	91	88	86	90	87	85	87	85	84	79
3.00	93	90	88	91	89	87	88	86	85	80
4.00	94	92	90	93	91	89	90	88	87	81
5.00	95	93	92	93	92	91	90	89	88	82
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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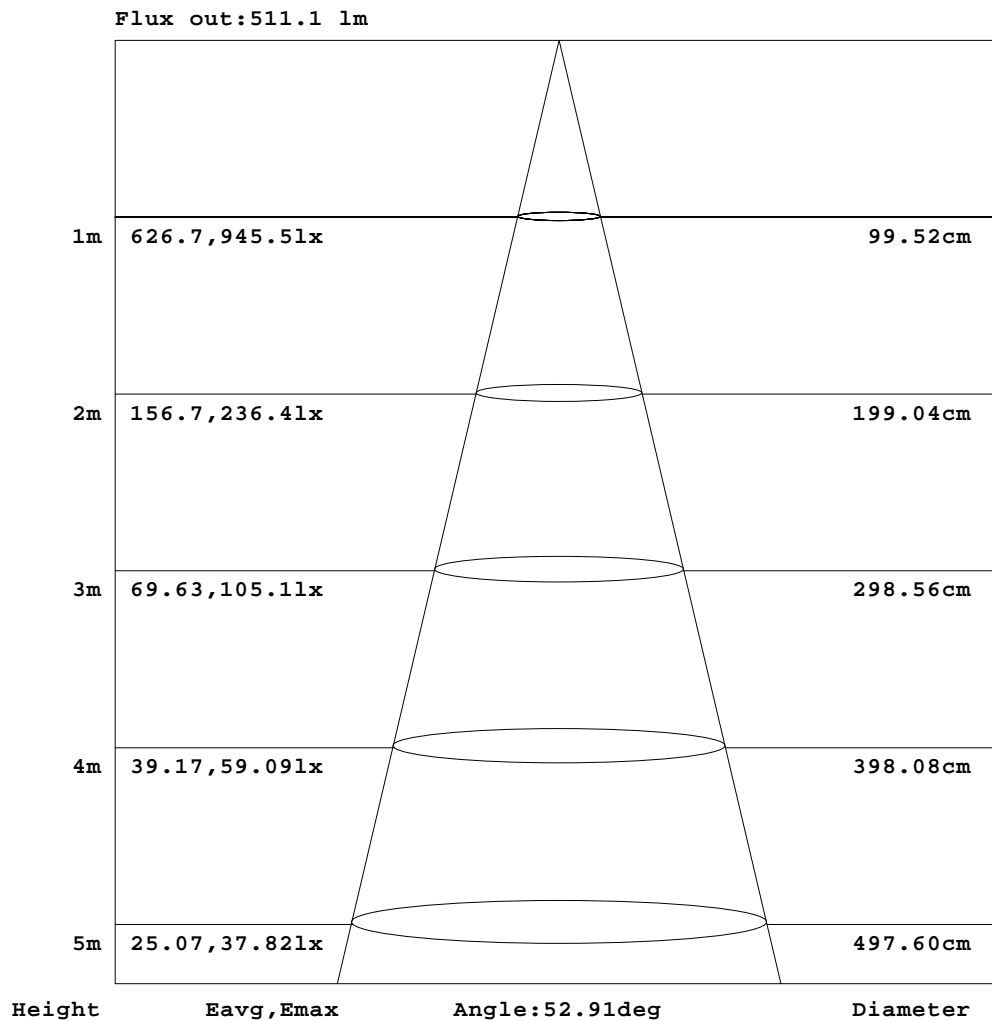


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AAI Figure

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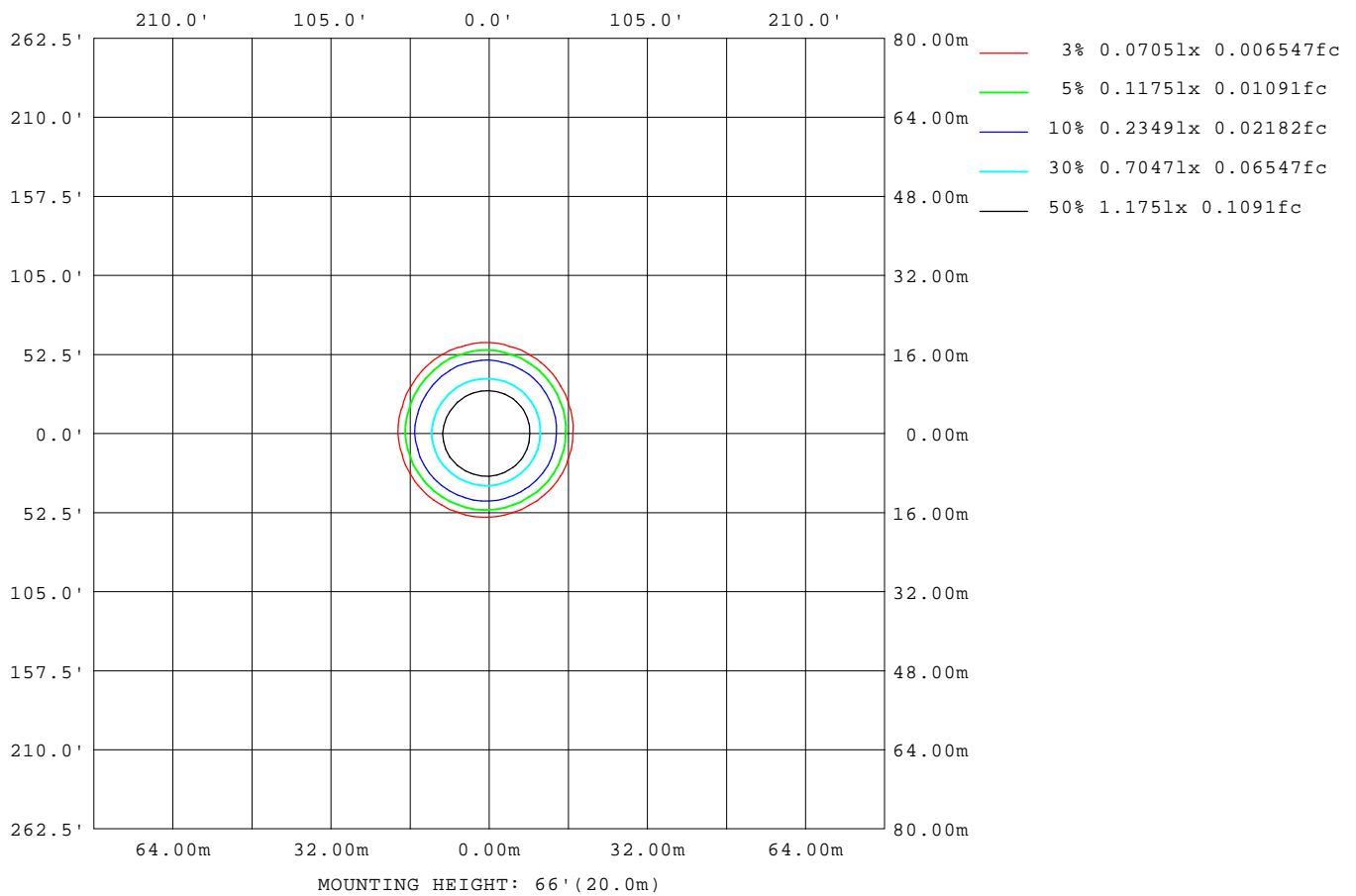
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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SPEC.: 3000K	DIM.:	SERIAL No.: 2308040975
MFR.: RISE	SUR.: 0.0025m2	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2023-8-4

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:CMA1306-0000-000N0U0A30G Ra:90
LENS: PM-1084C 50R
DRIVER: 9290 028 088 250mA
30minutes warm-up

LED Avg.L Report

Test:U:220.13V I:0.0522A P:11.098W PF:0.9636 Freq:49.99Hz Lamp Flux:896.707x1 lm		
NAME: 2214.411-1-ACOT-97	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308040975
MFR.: RISE	SUR.: 0.0025m2	Shielding Angle:

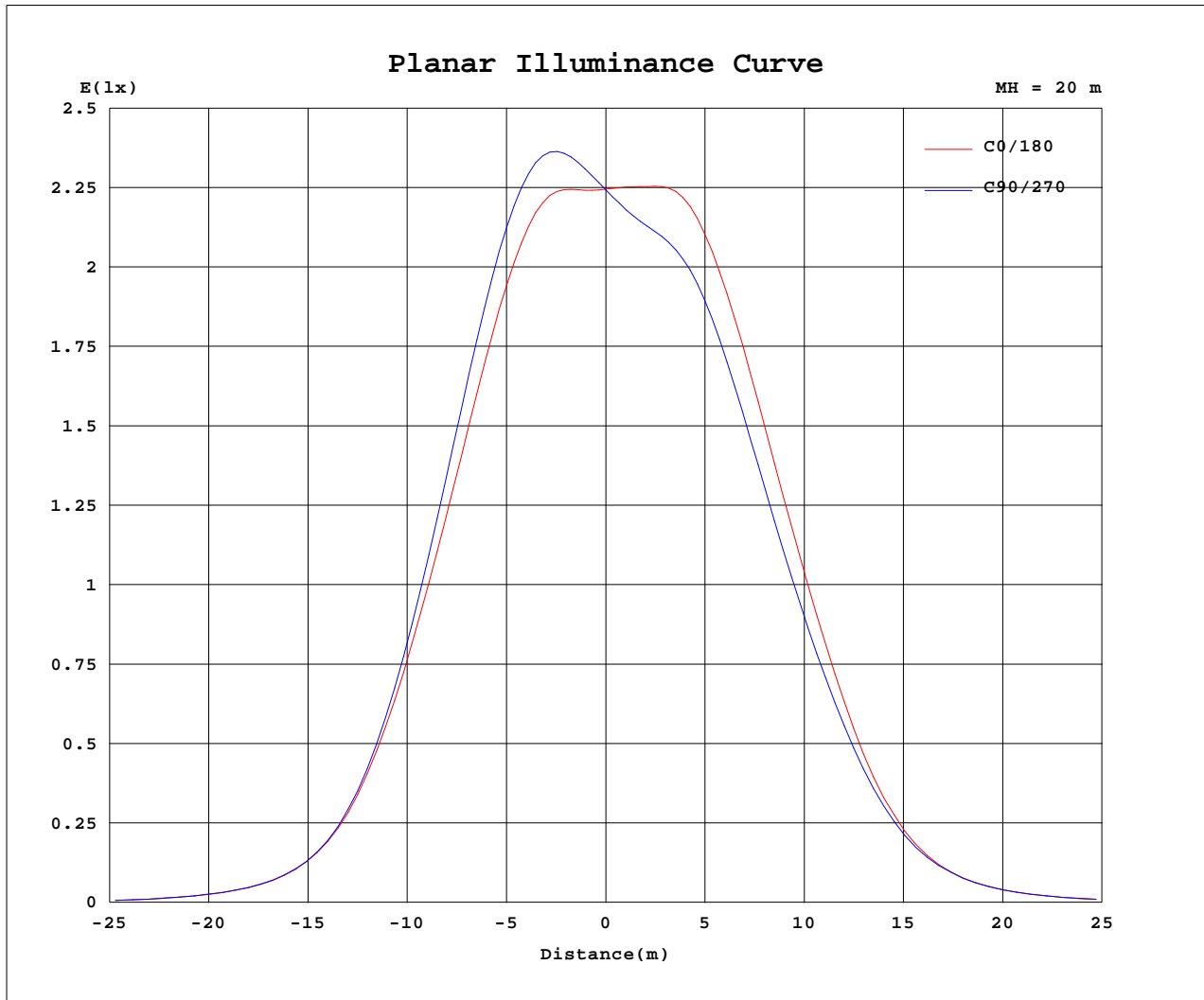
AvgL	cd/m2
L_0~180(65)av	1869
L_0~180(75)av	935
L_0~180(85)av	1133
L_90~270(65)av	1859
L_90~270(75)av	936
L_90~270(85)av	1044
L_45(65)av	2349
L_45(75)av	1140
L_45(85)av	1163

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2023-8-4

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:CMA1306-0000-000N0U0A30G Ra:90
LENS: PM-1084C 50R
DRIVER: 9290 028 088 250mA
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: 2023-8-4

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
 Humidity: 65.0%
 Test Distance: 3.160m [K=1.0000]
 Remarks: LAMP: CMA1306-0000-000N0U0A30G Ra:90
 LENS: PM-1084C 50R
 DRIVER: 9290 028 088 250mA
 30minutes warm-up

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.13V I:0.0522A P:11.098W PF:0.9636 Freq:49.99Hz Lamp Flux:896.707x1 lm		
NAME: 2214.411-1-ACOT-97	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308040975
MFR.: RISE	SUR.: 0.0025m2	Shielding Angle:

Table--1

UNIT: cd

C(DEC)	0	30	60	90	120	150	180	210	240	270	300	330						
γ (DEC)	0	30	60	90	120	150	180	210	240	270	300	330						
0	897	897	897	897	897	897	897	897	897	897	897	897						
5	907	923	938	949	949	935	910	885	869	867	873	887						
10	908	936	960	975	981	972	936	887	857	860	873	886						
15	828	860	887	910	933	939	908	853	830	815	830	825						
20	676	698	714	748	785	817	803	757	733	705	707	695						
25	489	494	499	529	572	628	639	604	582	554	540	518						
30	293	290	284	307	347	409	443	424	413	387	362	330						
35	140	137	130	142	166	208	240	238	240	222	197	166						
40	63.1	61.9	57.9	62.6	73.3	89.7	107	109	113	103	89.0	73.9						
45	29.8	30.3	28.2	30.3	35.5	41.7	46.1	49.3	51.7	46.1	41.4	35.1						
50	13.0	15.1	14.2	13.4	18.4	21.2	20.0	24.1	25.2	20.1	20.7	17.4						
55	6.70	7.16	6.98	6.76	8.19	9.67	8.65	10.7	11.4	9.37	9.25	8.07						
60	3.26	4.28	4.17	3.43	4.70	5.03	3.94	5.47	5.86	3.94	4.87	4.54						
65	1.91	2.32	2.35	1.99	2.51	2.60	2.04	2.52	2.62	1.94	2.25	2.22						
70	1.04	1.33	1.35	1.11	1.49	1.53	1.23	1.47	1.45	1.13	1.30	1.26						
75	0.61	0.74	0.75	0.63	0.75	0.77	0.60	0.71	0.73	0.59	0.67	0.67						
80	0.44	0.48	0.49	0.39	0.43	0.40	0.27	0.33	0.33	0.24	0.34	0.41						
85	0.29	0.30	0.31	0.28	0.31	0.26	0.21	0.21	0.19	0.17	0.20	0.23						
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
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Operators:zoe
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