

Luminaire Photograph



Light Output Ratio:	84.2%	
Luminaire Power:	11.1 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	0.30	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

Range: 0 - 180DEG
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-1084A 24R
DRIVER: 9290 028 088 250mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

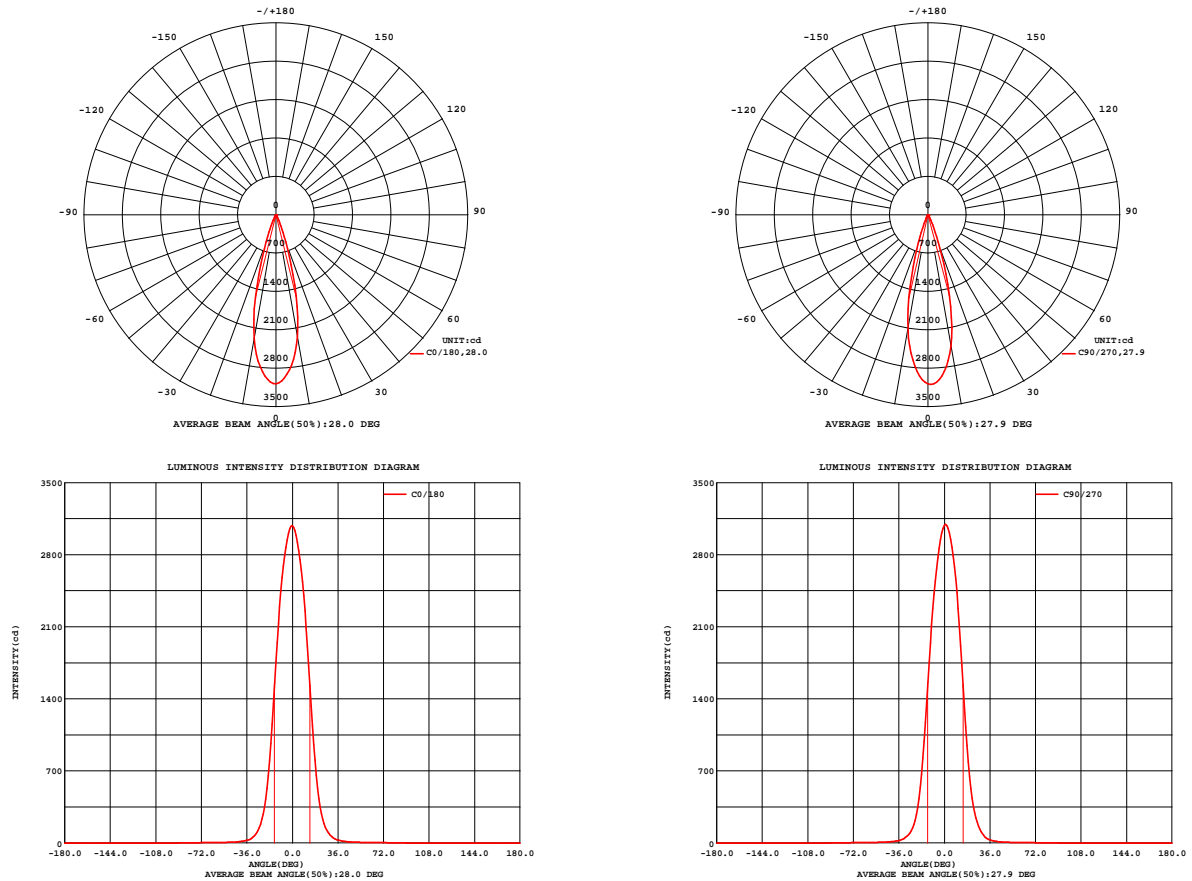


Fig. C0/C180

Fig. C90/C270

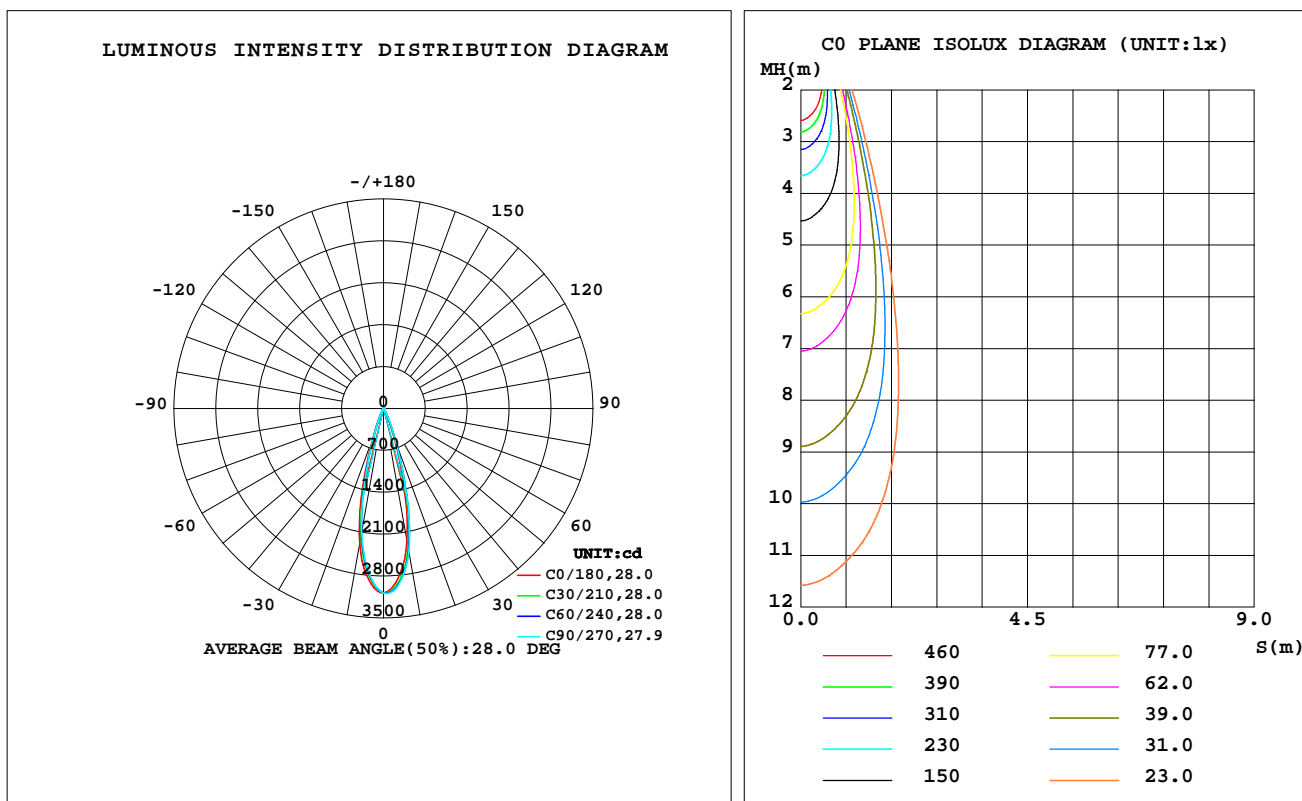
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LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.13V I:0.0522A P:11.098W PF:0.9636 Freq:49.99Hz Lamp Flux:896.707x1 lm		
NAME: 2214.412-1-ACOT-97	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308040977
MFR.: RISE	SUR.: 0.000854865m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 68.06 lm/W			
MODEL	CREE	I _{max} (cd)	3093	S/MH(C0/180)	0.45
NOMINAL POWER(W)	11	LOR(%)	84.2	S/MH(C90/270)	0.42
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	755.26	UP,DN(C0-180)	0.0,44.8
NOMINAL FLUX(lm)	896.707	CIE CLASS	DIRECT	UP,DN(C180-360)	0.0,39.4
LAMPS INSIDE	1	up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	220	down(%)	84.2	CIBSE SHR MAX	0.30



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ZONAL FLUX DIAGRAM

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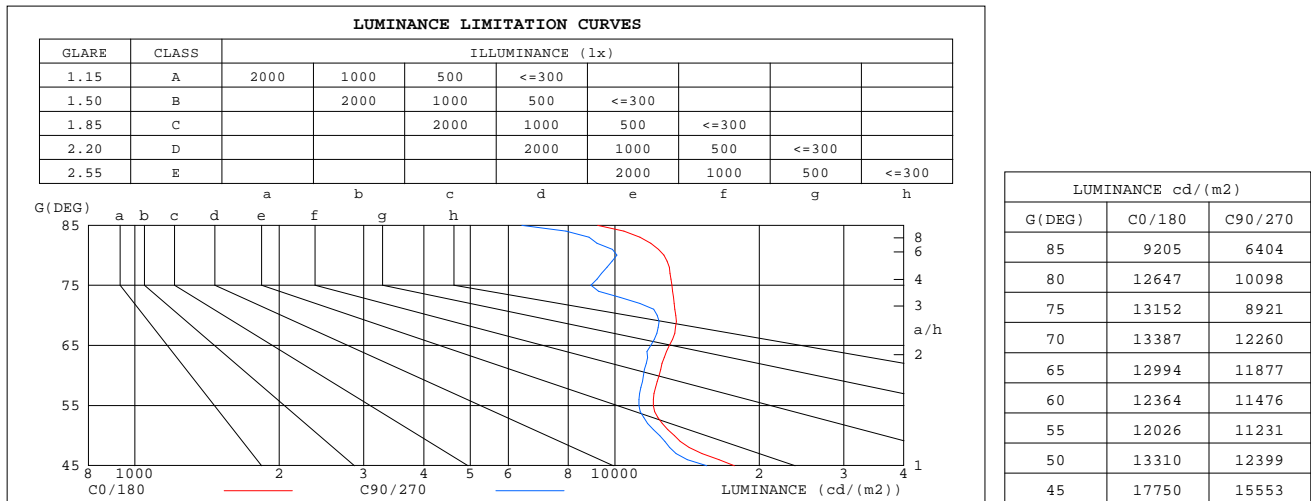
	C0	C45	C90	C135	C180	C225	C270	C315		zone	total	%lum,lamp
10	2254	2394	2433	2352	2295	2155	2115	2186	0- 10	254.3	254.3	33.7,28.4
20	532.4	633.8	647.3	576.8	530.2	443.5	430.3	486.9	10- 20	359.0	613.3	81.2,68.4
30	74.26	83.53	90.58	82.00	68.24	55.87	59.16	68.29	20- 30	98.87	712.2	94.3,79.4
40	18.08	18.41	18.29	16.49	15.64	14.93	15.36	17.07	30- 40	21.83	734.0	97.2,81.9
50	7.313	7.097	6.813	6.559	6.680	6.841	7.046	7.236	40- 50	7.970	742.0	98.2,82.7
60	5.284	5.152	4.906	4.787	4.916	5.068	5.209	5.330	50- 60	5.194	747.2	98.9,83.3
70	3.914	3.816	3.585	3.520	3.587	3.658	3.824	3.960	60- 70	4.432	751.6	99.5,83.8
80	1.877	1.895	1.499	1.688	1.662	1.677	1.735	1.897	70- 80	2.876	754.5	99.9,84.1
90	0	0	0	0	0	0	0	0	80- 90	0.7596	755.3	100,84.2
100	0	0	0	0	0	0	0	0	90-100	0	755.3	100,84.2
110	0	0	0	0	0	0	0	0	100-110	0	755.3	100,84.2
120	0	0	0	0	0	0	0	0	110-120	0	755.3	100,84.2
130	0	0	0	0	0	0	0	0	120-130	0	755.3	100,84.2
140	0	0	0	0	0	0	0	0	130-140	0	755.3	100,84.2
150	0	0	0	0	0	0	0	0	140-150	0	755.3	100,84.2
160	0	0	0	0	0	0	0	0	150-160	0	755.3	100,84.2
170	0	0	0	0	0	0	0	0	160-170	0	755.3	100,84.2
180	0	0	0	0	0	0	0	0	170-180	0	755.3	100,84.2
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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LUMINANCE LIMITATION CURVES

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NAME: 2214.412-1-ACOT-97	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308040977
MFR.: RISE	SUR.: 0.000854865m2	Shielding Angle:



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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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TYPE:

WEIGHT:

SPEC.: 3000K

DIM.:

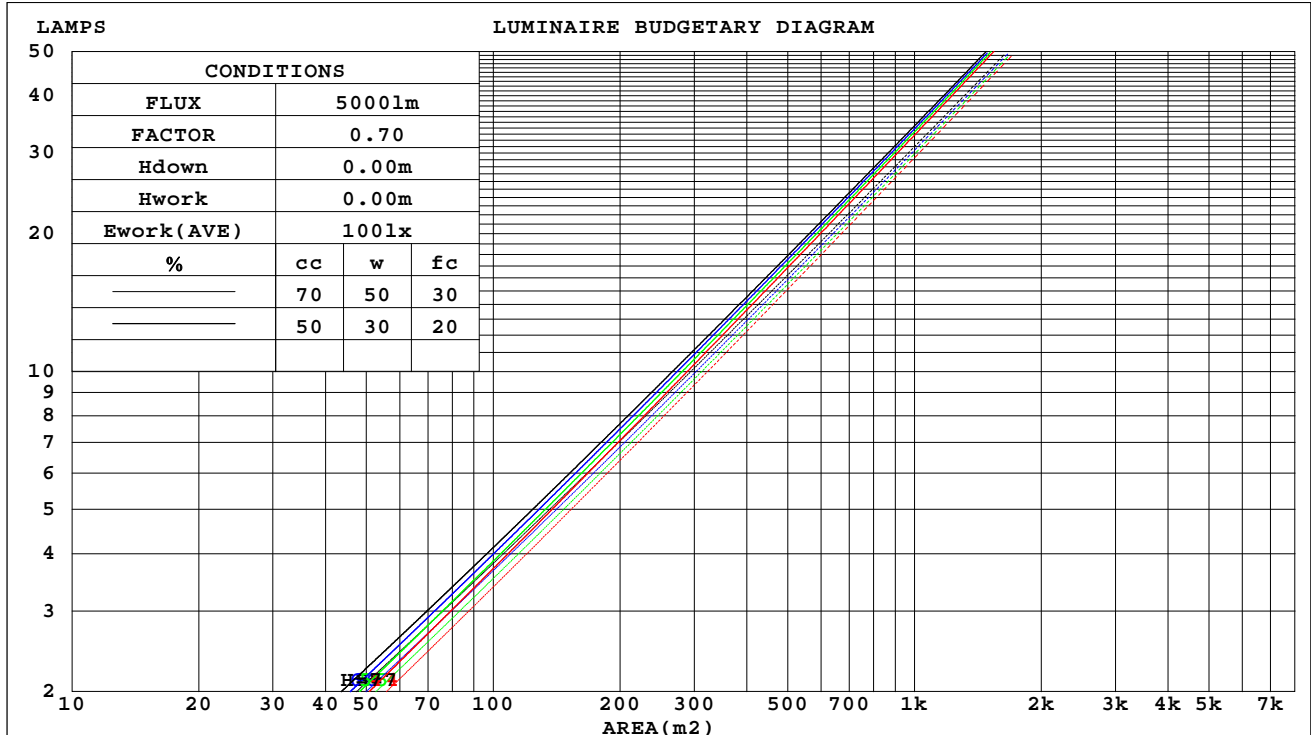
SERIAL No.: 2308040977

MFR.: RISE

SUR.: 0.000854865m2

Shielding Angle:

cc	80%			70%			50%			30%			10%			0
w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
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.: 2308040977
MFR.: RISE	SUR.: 0.000854865m2	Shielding Angle:

cc	80%			70%			50%			30%			10%			0
w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio Wall Exitance Coefficients(WEC)															
0.0																
1.0	.119	.068	.021	.114	.065	.021	.103	.059	.019	.094	.054	.017	.085	.049	.016	
2.0	.110	.060	.019	.106	.058	.018	.097	.054	.017	.089	.050	.016	.082	.046	.015	
3.0	.102	.054	.016	.099	.053	.016	.091	.050	.015	.085	.046	.014	.079	.043	.013	
4.0	.096	.050	.015	.092	.048	.014	.086	.046	.014	.081	.043	.013	.075	.041	.012	
5.0	.090	.046	.013	.087	.045	.013	.082	.043	.013	.077	.041	.012	.073	.039	.012	
6.0	.085	.043	.012	.083	.042	.012	.078	.040	.012	.074	.038	.011	.070	.037	.011	
7.0	.081	.040	.011	.078	.039	.011	.075	.038	.011	.071	.036	.011	.068	.035	.010	
8.0	.077	.037	.011	.075	.037	.010	.071	.036	.010	.068	.035	.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	.063	.031	.009	.061	.031	.009	

cc	80%			70%			50%			30%			10%			0
w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
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	.094	.094	.094	.054	.054	.054	.017	.017	.017	
1.0	.142	.133	.124	.122	.114	.107	.083	.078	.074	.048	.045	.043	.015	.015	.014	
2.0	.127	.112	.099	.109	.096	.086	.075	.067	.060	.043	.039	.035	.014	.013	.011	
3.0	.114	.095	.080	.098	.082	.070	.067	.057	.049	.039	.033	.029	.013	.011	.009	
4.0	.104	.083	.066	.089	.071	.057	.061	.050	.040	.035	.029	.024	.011	.009	.008	
5.0	.095	.072	.055	.082	.062	.048	.056	.044	.034	.033	.026	.020	.011	.008	.007	
6.0	.088	.064	.047	.075	.055	.041	.052	.039	.029	.030	.023	.017	.010	.007	.006	
7.0	.081	.057	.040	.070	.049	.035	.048	.035	.025	.028	.020	.015	.009	.007	.005	
8.0	.076	.051	.034	.065	.044	.030	.045	.031	.021	.026	.018	.013	.008	.006	.004	
9.0	.071	.046	.030	.061	.040	.026	.042	.028	.019	.025	.017	.011	.008	.005	.004	
10.0	.067	.042	.026	.058	.037	.023	.040	.026	.016	.023	.015	.010	.008	.005	.003	

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30minutes warm-up

UGR(Unified Glare Rating) Table

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SPEC.: 3000K					DIM.:			SERIAL No.: 2308040977			
MFR.: RISE					SUR.: 0.000854865m2			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	2H	13.5	14.1	13.7	14.3	14.4	13.5	14.2	13.7	14.3	14.5
	3H	14.7	15.3	15.0	15.5	15.7	14.6	15.2	14.8	15.4	15.6
	4H	15.3	15.9	15.6	16.1	16.3	15.0	15.6	15.2	15.8	16.0
	6H	15.8	16.4	16.1	16.6	16.9	15.3	15.9	15.6	16.1	16.4
	8H	16.0	16.6	16.3	16.8	17.1	15.5	16.0	15.7	16.2	16.5
	12H	16.1	16.6	16.4	16.9	17.1	15.5	16.0	15.8	16.3	16.5
4H	2H	13.9	14.4	14.1	14.6	14.9	13.9	14.5	14.1	14.7	14.9
	3H	15.4	15.9	15.7	16.1	16.4	15.2	15.8	15.5	16.0	16.3
	4H	16.1	16.6	16.5	16.9	17.2	15.8	16.3	16.1	16.6	16.9
	6H	16.8	17.2	17.2	17.5	17.9	16.3	16.7	16.7	17.0	17.4
	8H	17.0	17.4	17.4	17.8	18.1	16.5	16.9	16.8	17.2	17.6
	12H	17.1	17.5	17.5	17.9	18.3	16.5	16.9	16.9	17.3	17.7
8H	4H	16.4	16.8	16.8	17.1	17.5	16.1	16.5	16.5	16.8	17.2
	6H	17.2	17.5	17.6	17.9	18.3	16.8	17.1	17.2	17.5	17.9
	8H	17.5	17.8	18.0	18.2	18.7	17.0	17.3	17.5	17.7	18.2
	12H	17.7	18.0	18.2	18.4	18.9	17.2	17.4	17.6	17.9	18.3
12H	4H	16.4	16.8	16.8	17.1	17.5	16.1	16.5	16.5	16.8	17.2
	6H	17.3	17.6	17.7	18.0	18.4	16.8	17.1	17.3	17.6	18.0
	8H	17.6	17.9	18.1	18.3	18.8	17.2	17.4	17.6	17.8	18.3
Variations with the observer position at spacings(CIE Pub.117):											
S = 1.0H	+ 0.4 / - 0.4					+ 0.5 / - 0.6					
1.5H	+ 0.9 / - 0.4					+ 1.1 / - 0.5					
2.0H	+ 0.3 / - 0.2					+ 0.3 / - 0.3					

CIE Pub.117, 896.7 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.4)
Area: 0.000854865 m2

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UTILIZATION FACTORS TABLE

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MFR.: RISE	SUR.: 0.000854865m2	Shielding Angle:

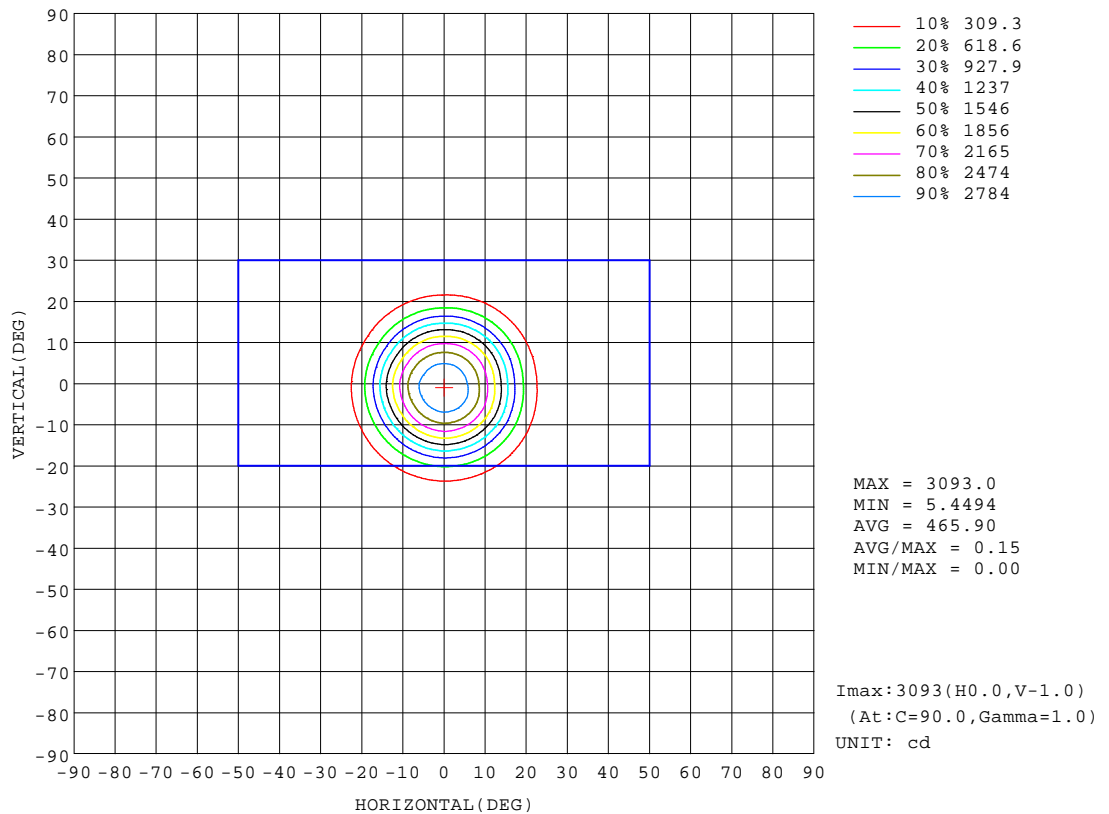
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	76	71	68	75	71	68	75	70	68	65
0.80	82	77	74	81	77	74	80	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	86	89	86	84	80
2.50	93	90	88	92	89	87	89	87	86	81
3.00	95	92	90	93	91	89	90	88	87	82
4.00	96	94	92	94	93	91	91	90	89	83
5.00	97	95	94	95	94	93	92	91	90	84
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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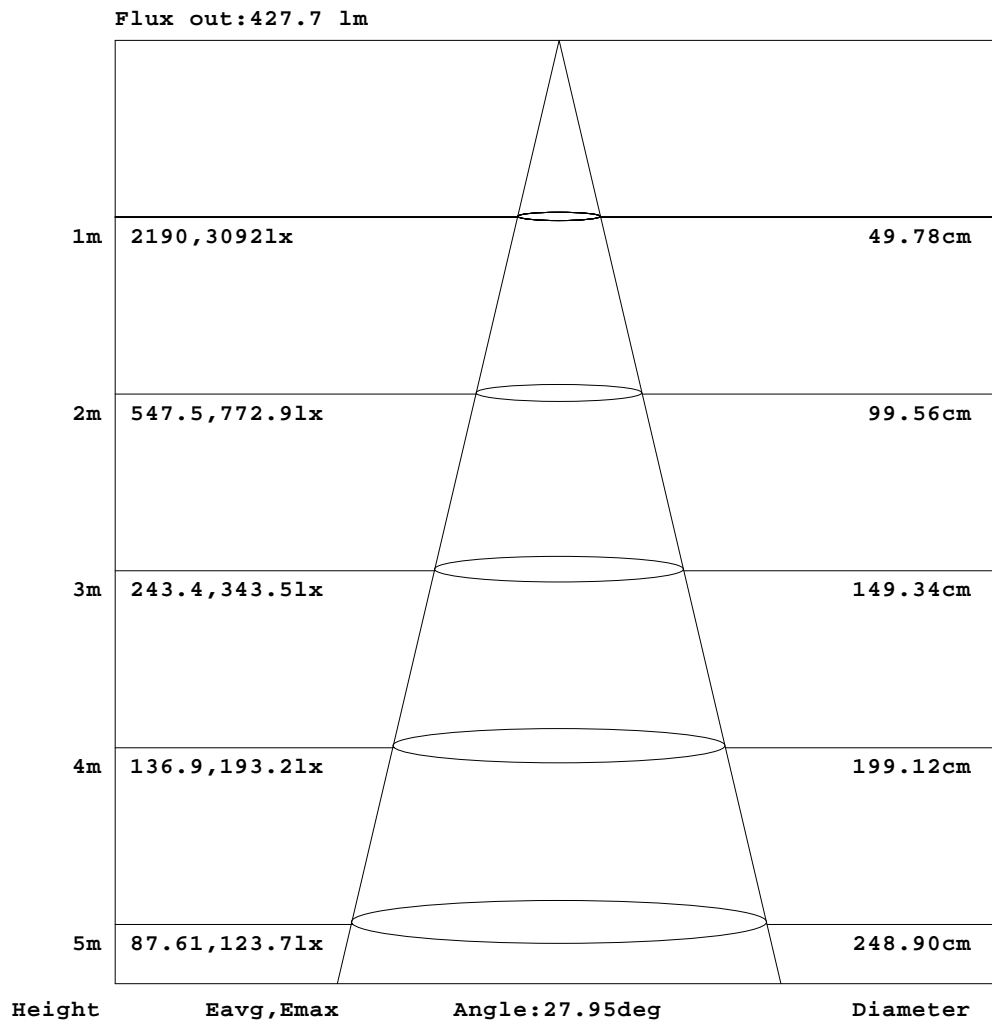


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AAI Figure

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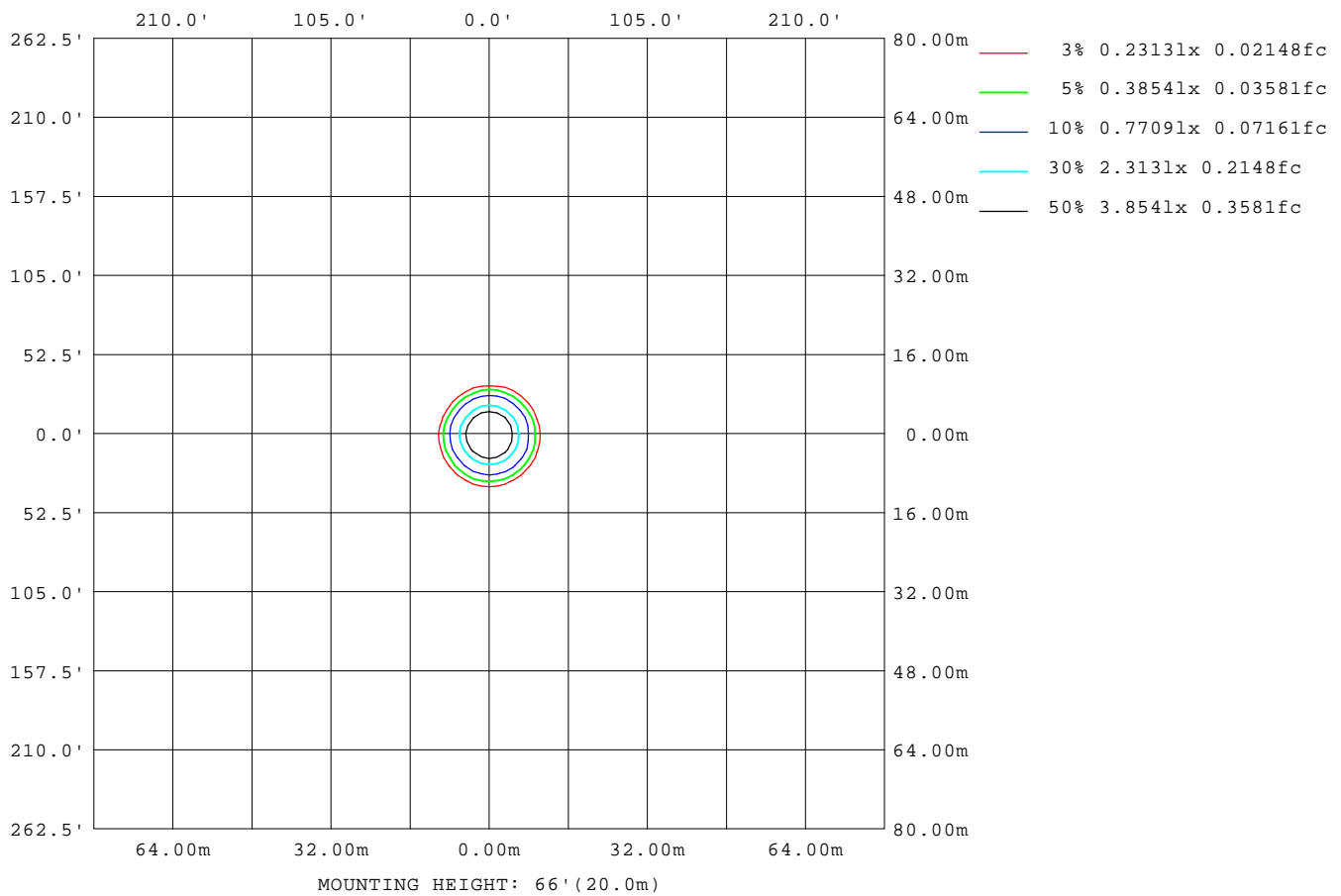
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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Test Distance:3.160m [K=1.0000]
Remarks: LAMP:CMA1306-0000-000N0U0A30G Ra:90
LENS: PM-1084A 24R
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: 2214.412-1-ACOT-97	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308040977
MFR.: RISE	SUR.: 0.000854865m2	Shielding Angle:

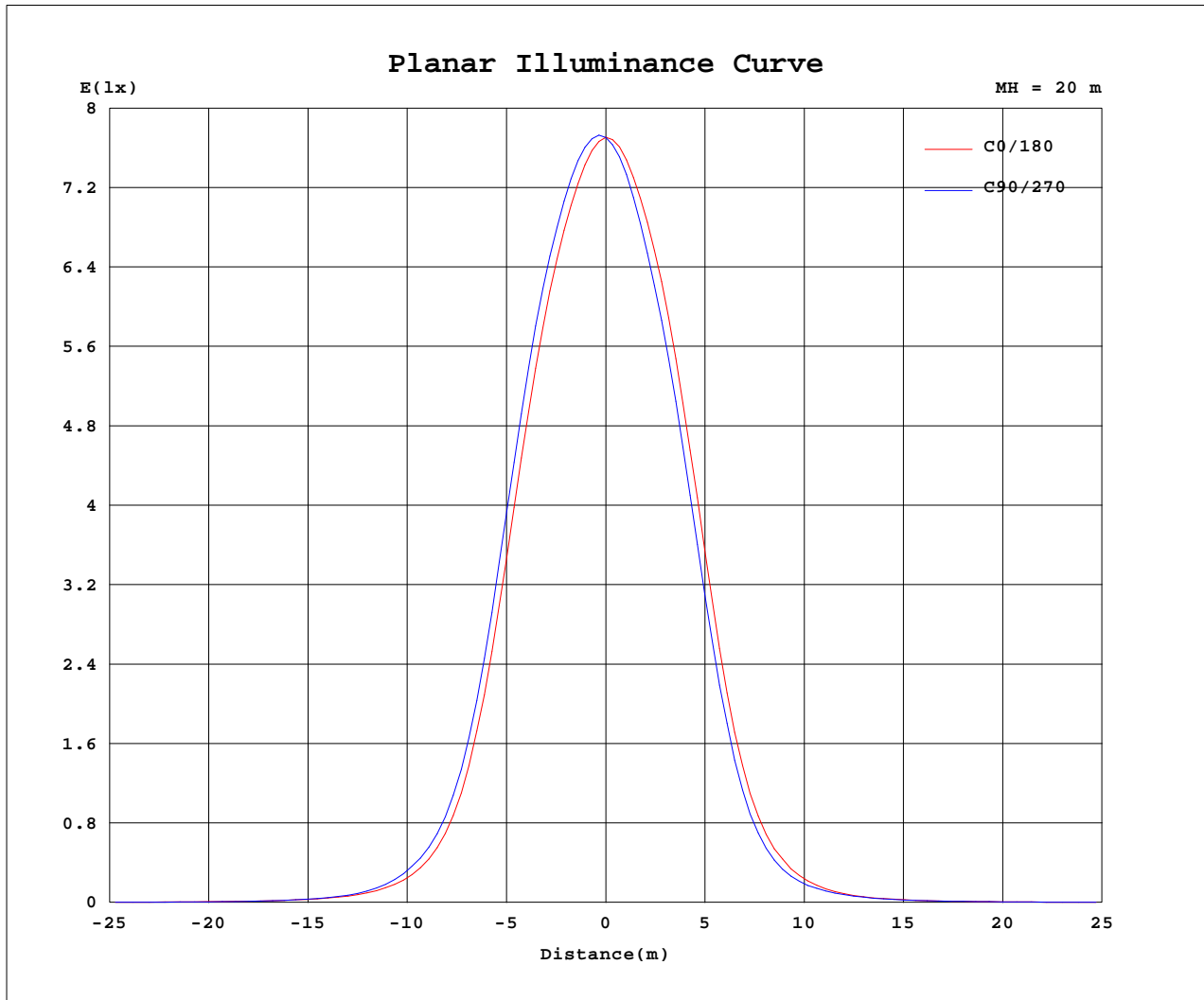
AvgL	cd/m2
L_0~180(65)av	12544
L_0~180(75)av	12528
L_0~180(85)av	8063
L_90~270(65)av	12378
L_90~270(75)av	10799
L_90~270(85)av	6637
L_45(65)av	12485
L_45(75)av	12591
L_45(85)av	9298

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

Range: 0 - 180DEG
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-1084A 24R
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

Range: 0 - 180DEG
 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-1084A 24R
 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: 2214.412-1-ACOT-97	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308040977
MFR.: RISE	SUR.: 0.000854865m2	Shielding Angle:

Table--1

UNIT: cd

C(DEC) (DEC)	0	30	60	90	120	150	180	210	240	270	300	330						
0	3083	3083	3083	3083	3083	3083	3083	3083	3083	3083	3083	3083						
5	2841	2908	2939	2950	2926	2892	2869	2806	2781	2767	2784	2809						
10	2254	2367	2421	2433	2385	2318	2295	2179	2130	2115	2160	2213						
15	1330	1472	1512	1522	1453	1377	1351	1218	1180	1170	1231	1294						
20	532	620	647	647	600	553	530	454	433	430	468	506						
25	189	224	235	242	226	207	183	150	143	144	158	174						
30	74.3	79.8	87.3	90.6	87.7	76.3	68.2	56.0	55.7	59.2	65.3	71.3						
35	33.3	34.1	35.2	36.2	33.9	31.3	29.3	26.2	26.6	27.6	30.2	32.7						
40	18.1	18.5	18.3	18.3	17.0	16.0	15.6	14.9	15.0	15.4	16.5	17.6						
45	10.7	10.4	9.90	9.40	9.10	8.72	9.06	9.09	9.28	9.58	10.0	10.3						
50	7.31	7.21	6.99	6.81	6.57	6.54	6.68	6.78	6.90	7.05	7.19	7.28						
55	5.90	5.91	5.70	5.51	5.38	5.41	5.49	5.65	5.73	5.78	5.93	6.00						
60	5.28	5.24	5.06	4.91	4.77	4.80	4.92	5.01	5.13	5.21	5.31	5.35						
65	4.69	4.63	4.45	4.29	4.23	4.27	4.37	4.46	4.56	4.65	4.73	4.75						
70	3.91	3.89	3.75	3.58	3.52	3.52	3.59	3.61	3.71	3.82	3.93	3.98						
75	2.91	2.90	2.80	1.97	2.62	2.58	2.63	2.63	2.71	2.80	2.91	2.96						
80	1.88	1.93	1.86	1.50	1.71	1.67	1.66	1.65	1.70	1.74	1.88	1.92						
85	0.69	0.82	0.76	0.48	0.67	0.63	0.52	0.55	0.57	0.51	0.69	0.73						
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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Temperature:25.3℃
Operators:zoe
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