

Luminaire Photograph



Light Output Ratio:	83.4%	
Luminaire Power:	11.1 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.65	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-1084B 36R
DRIVER: 9290 028 088 250mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

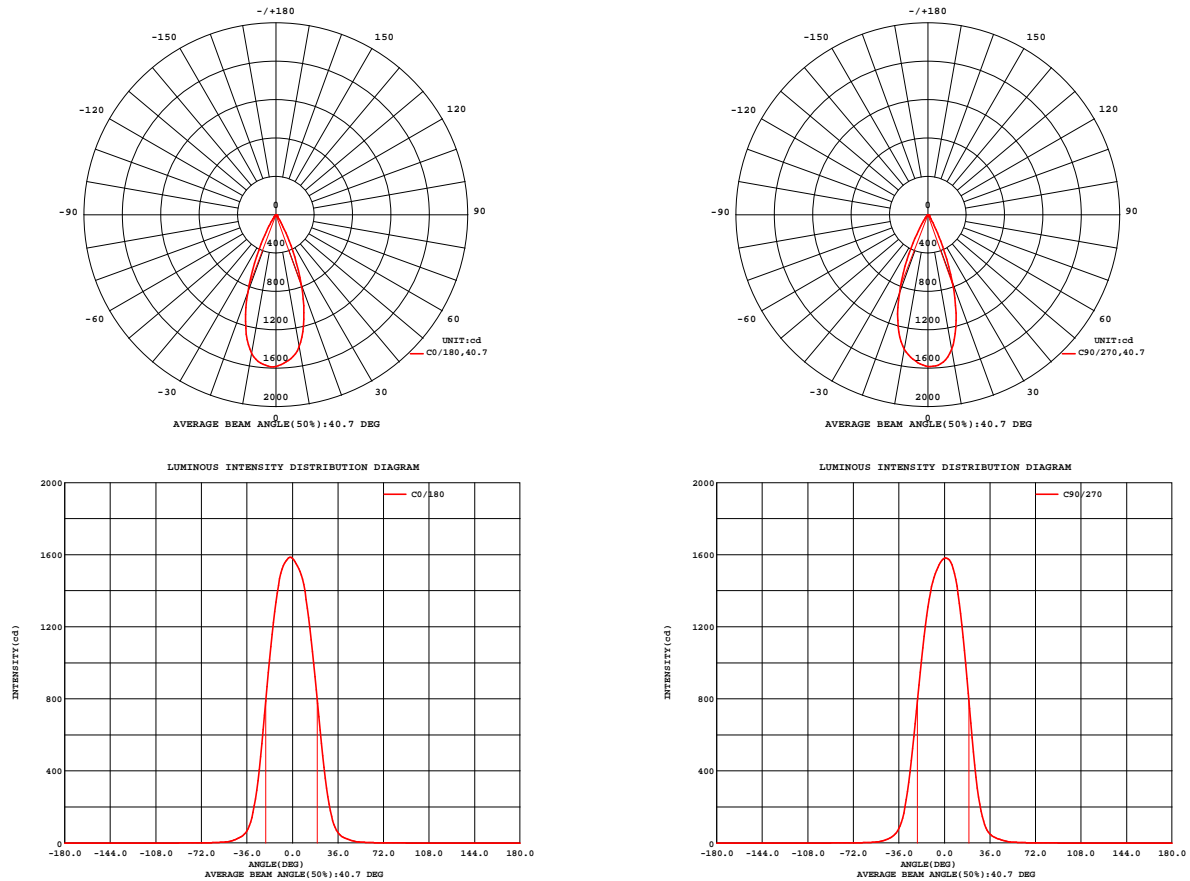


Fig. C0/C180

Fig. C90/C270

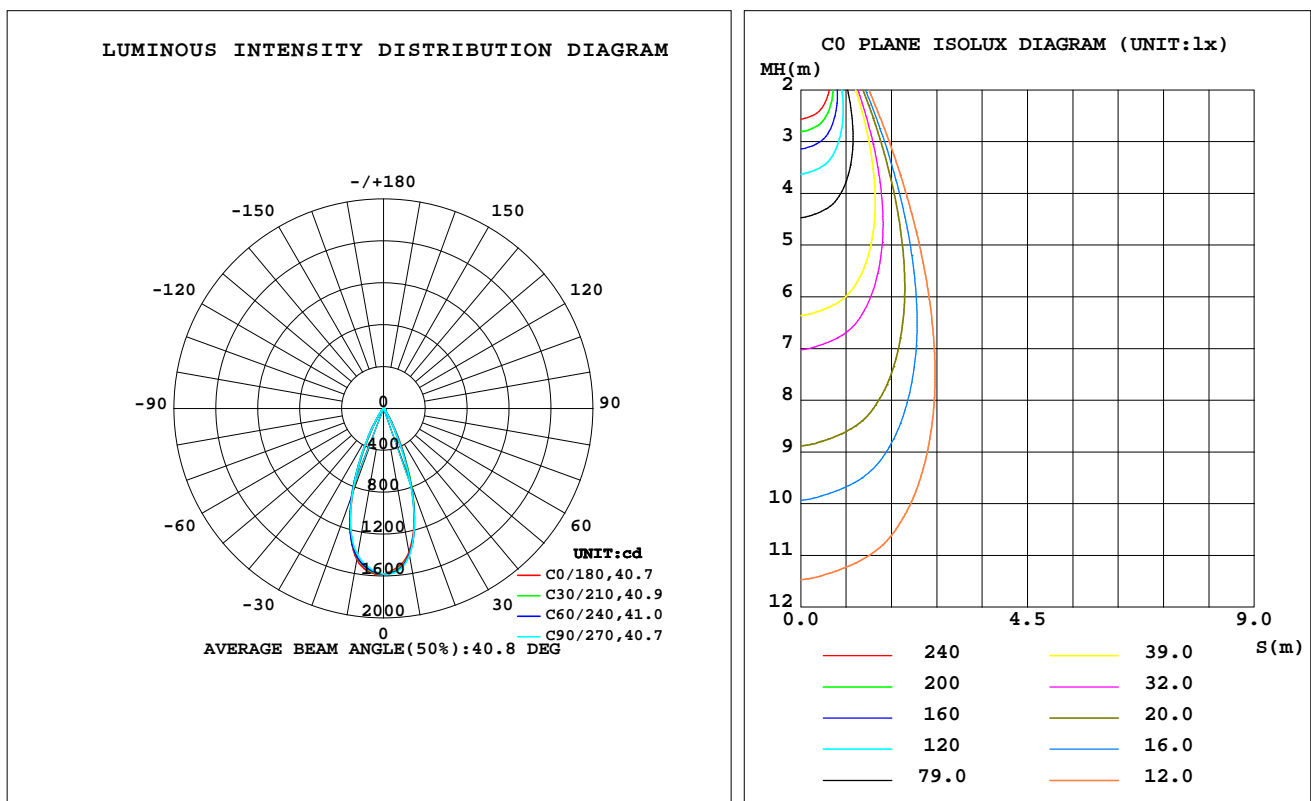
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LUMINAIRE PHOTOMETRIC TEST REPORT

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.: 2308040974
MFR.: RISE	SUR.: 0.0025m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 67.37 lm/W			
MODEL	CREE	I _{max} (cd)	1585	S/MH(C0/180)	0.64
NOMINAL POWER(W)	11	LOR(%)	83.4	S/MH(C90/270)	0.66
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	747.65	η UP,DN(C0-180)	0.0,39.5
NOMINAL FLUX(lm)	896.707	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,43.8
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	220	η down(%)	83.4	CIBSE SHR MAX	0.65



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ZONAL FLUX DIAGRAM

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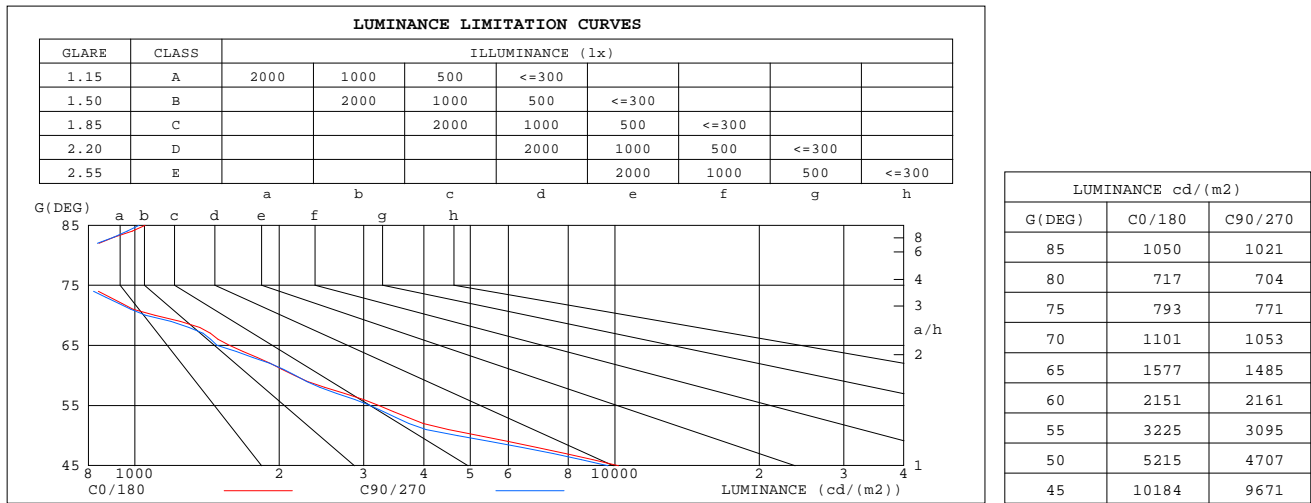
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1397	1417	1425	1445	1466	1446	1422	1402	0- 10	143.8	143.8	19.2,16
20	775.2	766.5	746.7	795.4	866.8	882.7	876.7	834.2	10- 20	319.1	462.8	61.9,51.6
30	178.6	154.1	146.4	164.0	206.6	227.1	239.9	222.0	20- 30	207.3	670.2	89.6,74.7
40	32.82	30.19	30.61	33.46	36.69	39.58	41.73	39.57	30- 40	54.00	724.2	96.9,80.8
50	8.388	10.00	7.561	10.26	8.285	12.15	9.808	11.88	40- 50	15.83	740.0	99,82.5
60	2.690	3.164	2.700	3.116	2.627	3.387	2.710	3.379	50- 60	5.000	745.0	99.6,83.1
70	0.9423	1.193	0.9002	1.090	0.8409	1.116	0.8893	1.117	60- 70	1.892	746.9	99.9,83.3
80	0.3114	0.3655	0.3057	0.2593	0.2504	0.2586	0.2058	0.2754	70- 80	0.5898	747.5	100,83.4
90	0	0	0	0	0	0	0	0	80- 90	0.1825	747.7	100,83.4
100	0	0	0	0	0	0	0	0	90-100	0	747.7	100,83.4
110	0	0	0	0	0	0	0	0	100-110	0	747.7	100,83.4
120	0	0	0	0	0	0	0	0	110-120	0	747.7	100,83.4
130	0	0	0	0	0	0	0	0	120-130	0	747.7	100,83.4
140	0	0	0	0	0	0	0	0	130-140	0	747.7	100,83.4
150	0	0	0	0	0	0	0	0	140-150	0	747.7	100,83.4
160	0	0	0	0	0	0	0	0	150-160	0	747.7	100,83.4
170	0	0	0	0	0	0	0	0	160-170	0	747.7	100,83.4
180	0	0	0	0	0	0	0	0	170-180	0	747.7	100,83.4
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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LUMINANCE LIMITATION CURVES

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NAME: 2214.411-1-ACOT-97	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308040974
MFR.: RISE	SUR.: 0.0025m2	Shielding Angle:



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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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TYPE:

WEIGHT:

SPEC.: 3000K

DIM.:

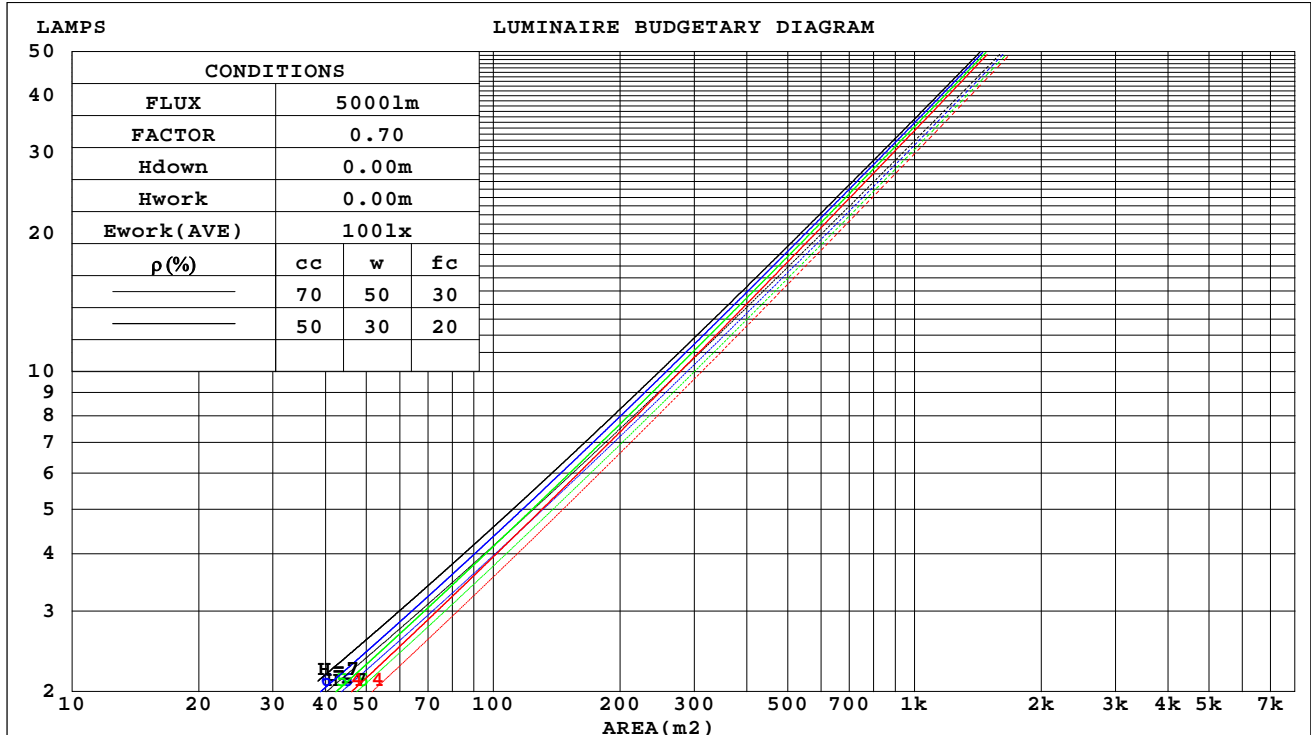
SERIAL No.: 2308040974

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.: 2308040974
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	.130	.074	.023	.124	.071	.022	.114	.065	.021	.104	.060	.019	.095	.055	.018	
2.0	.122	.067	.021	.117	.065	.020	.109	.060	.019	.101	.057	.018	.093	.053	.017	
3.0	.115	.061	.018	.111	.060	.018	.104	.056	.017	.097	.053	.016	.091	.050	.016	
4.0	.109	.057	.017	.106	.055	.016	.099	.053	.016	.094	.050	.015	.088	.048	.015	
5.0	.103	.053	.015	.100	.052	.015	.095	.050	.015	.090	.048	.014	.085	.046	.014	
6.0	.098	.049	.014	.096	.048	.014	.091	.047	.014	.087	.045	.013	.083	.044	.013	
7.0	.094	.046	.013	.092	.046	.013	.088	.044	.013	.084	.043	.012	.080	.042	.012	
8.0	.090	.044	.012	.088	.043	.012	.084	.042	.012	.081	.041	.012	.078	.040	.012	
9.0	.086	.042	.012	.084	.041	.012	.081	.040	.011	.078	.039	.011	.075	.038	.011	
10.0	.083	.040	.011	.081	.039	.011	.078	.038	.011	.076	.038	.011	.073	.037	.011	

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	.159	.159	.159	.136	.136	.136	.093	.093	.093	.053	.053	.053	.017	.017	.017	
1.0	.141	.131	.122	.121	.113	.105	.083	.078	.073	.048	.045	.042	.015	.014	.014	
2.0	.127	.111	.096	.109	.095	.083	.075	.066	.058	.043	.038	.034	.014	.012	.011	
3.0	.116	.095	.078	.099	.082	.067	.068	.057	.047	.039	.033	.028	.013	.011	.009	
4.0	.106	.082	.063	.091	.071	.055	.063	.049	.039	.036	.029	.023	.012	.009	.008	
5.0	.098	.072	.053	.084	.062	.046	.058	.044	.032	.034	.026	.019	.011	.008	.006	
6.0	.092	.064	.044	.079	.055	.038	.054	.039	.027	.032	.023	.016	.010	.007	.005	
7.0	.086	.057	.037	.074	.050	.033	.051	.035	.023	.030	.021	.014	.010	.007	.005	
8.0	.081	.052	.032	.069	.045	.028	.048	.032	.020	.028	.019	.012	.009	.006	.004	
9.0	.076	.047	.028	.066	.041	.024	.046	.029	.017	.027	.017	.010	.009	.006	.003	
10.0	.072	.044	.025	.062	.038	.021	.043	.027	.015	.025	.016	.009	.008	.005	.003	

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30minutes warm-up

UGR(Unified Glare Rating) Table

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SPEC.: 3000K					DIM.:			SERIAL No.: 2308040974		
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	12.7	13.5	12.9	13.6	13.8	12.1	12.9	12.3	13.0	13.2
3H	12.6	13.3	12.9	13.5	13.7	12.0	12.7	12.2	12.9	13.1
4H	12.5	13.2	12.8	13.4	13.7	11.9	12.6	12.2	12.8	13.0
6H	12.5	13.1	12.8	13.3	13.6	11.9	12.5	12.1	12.7	13.0
8H	12.4	13.1	12.7	13.3	13.6	11.8	12.4	12.1	12.7	12.9
12H	12.4	13.0	12.7	13.3	13.5	11.8	12.4	12.1	12.6	12.9
4H 2H	12.5	13.2	12.8	13.4	13.6	11.9	12.6	12.2	12.8	13.0
3H	12.4	13.0	12.8	13.3	13.6	11.9	12.5	12.2	12.7	13.0
4H	12.4	12.9	12.7	13.2	13.5	11.8	12.3	12.1	12.6	12.9
6H	12.3	12.8	12.7	13.1	13.5	11.7	12.2	12.1	12.5	12.9
8H	12.3	12.7	12.7	13.1	13.4	11.7	12.1	12.1	12.5	12.8
12H	12.2	12.6	12.6	13.0	13.4	11.7	12.1	12.1	12.4	12.8
8H 4H	12.3	12.7	12.6	13.1	13.4	11.7	12.1	12.1	12.5	12.8
6H	12.2	12.6	12.6	12.9	13.4	11.6	12.0	12.0	12.4	12.8
8H	12.2	12.5	12.6	12.9	13.3	11.6	11.9	12.0	12.3	12.8
12H	12.1	12.4	12.6	12.8	13.3	11.6	11.8	12.0	12.3	12.7
12H 4H	12.2	12.6	12.6	13.0	13.4	11.6	12.0	12.0	12.4	12.8
6H	12.1	12.5	12.6	12.9	13.3	11.6	11.9	12.0	12.3	12.7
8H	12.1	12.4	12.6	12.8	13.3	11.5	11.8	12.0	12.3	12.7
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 2.9 / - 5.3					+ 2.6 / - 5.1				
1.5H	+ 4.4 / - 4.4					+ 4.1 / - 4.2				
2.0H	+ 4.5 / - 3.6					+ 4.4 / - 3.3				

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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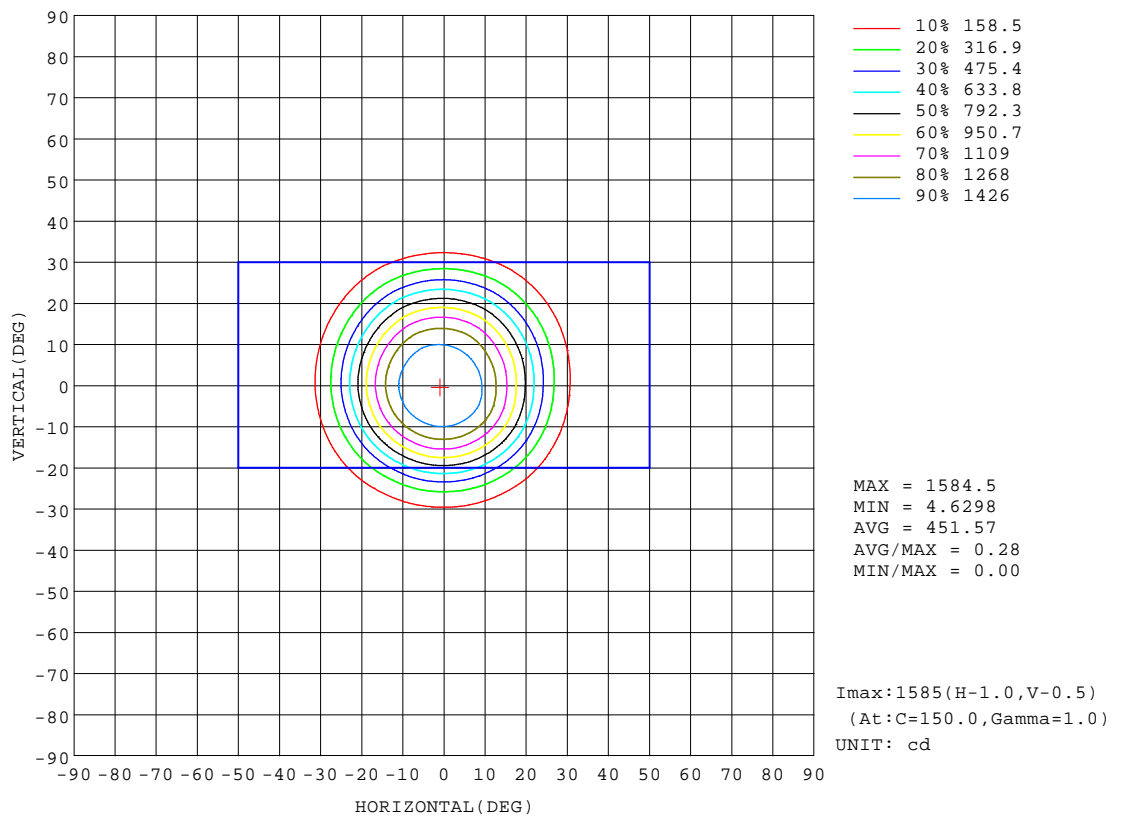
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	75	70	67	74	70	67	74	69	67	64
0.80	81	76	73	80	76	73	79	75	73	70
1.00	84	80	77	83	79	77	82	79	76	73
1.25	87	83	80	86	83	80	85	82	79	76
1.50	89	86	83	88	85	83	86	84	82	78
2.00	91	88	85	90	87	85	88	85	84	79
2.50	92	90	87	91	88	86	89	87	85	80
3.00	94	91	89	92	90	88	89	88	86	81
4.00	95	93	91	94	92	90	91	89	88	82
5.00	96	95	93	95	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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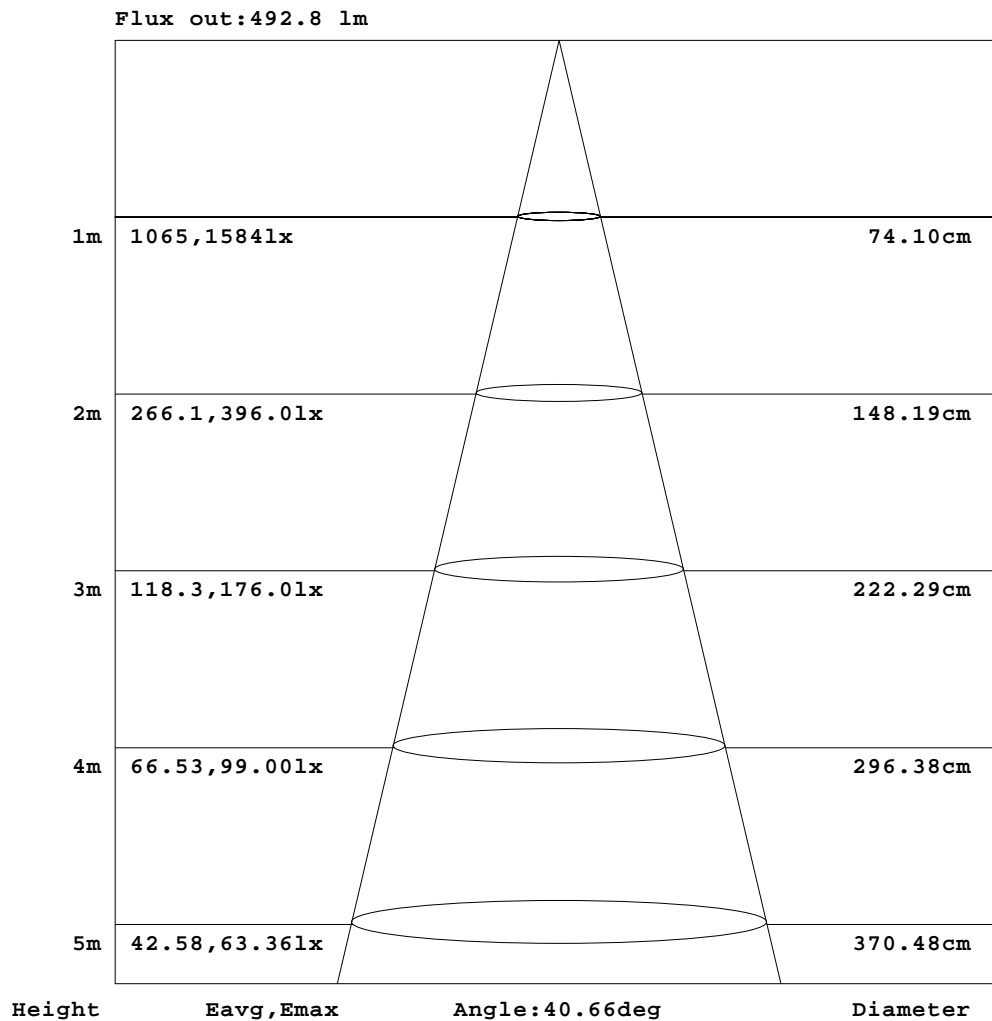


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AAI Figure

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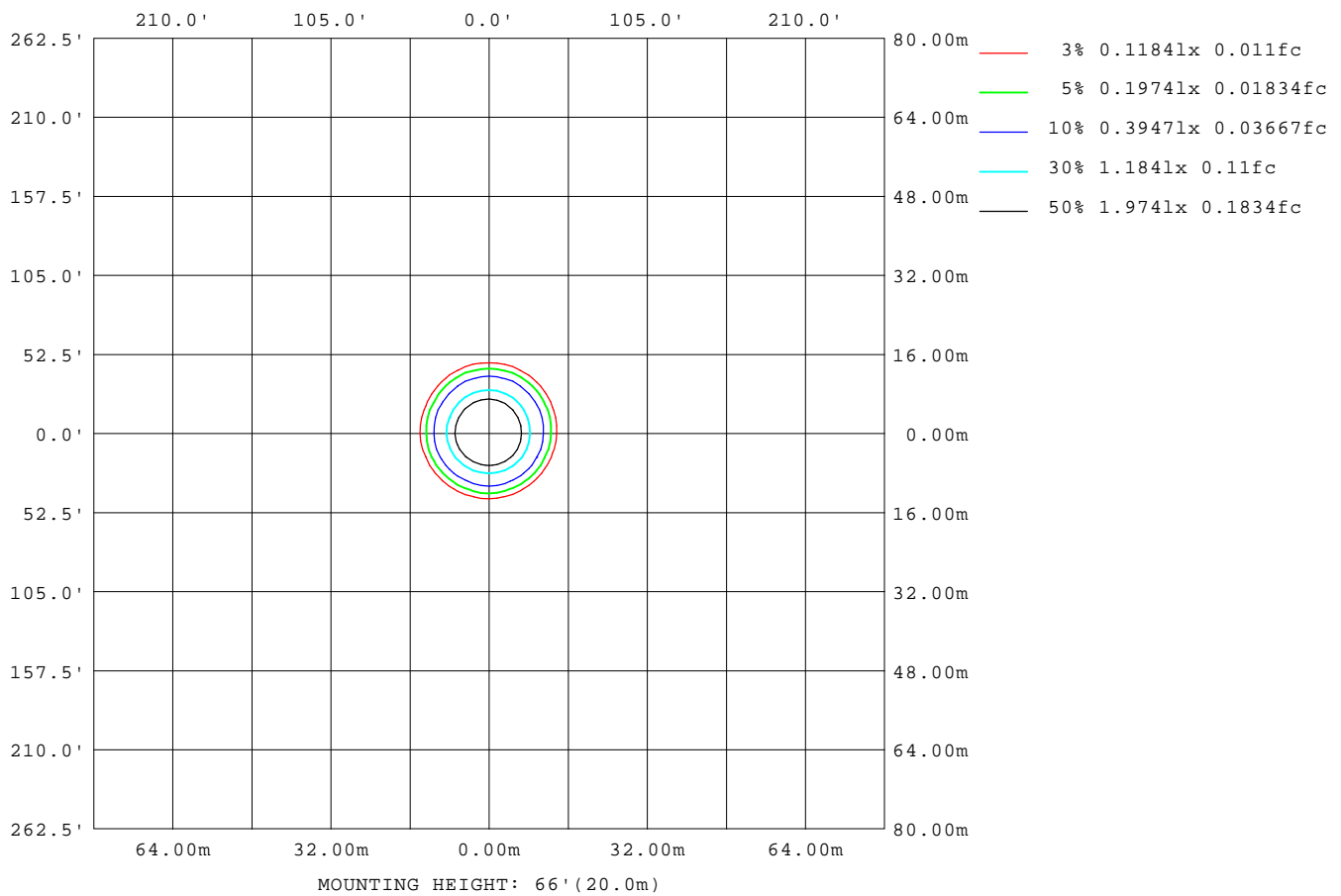
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:CMA1306-0000-000N0U0A30G Ra:90
LENS: PM-1084B 36R
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.: 2308040974
MFR.: RISE	SUR.: 0.0025m2	Shielding Angle:

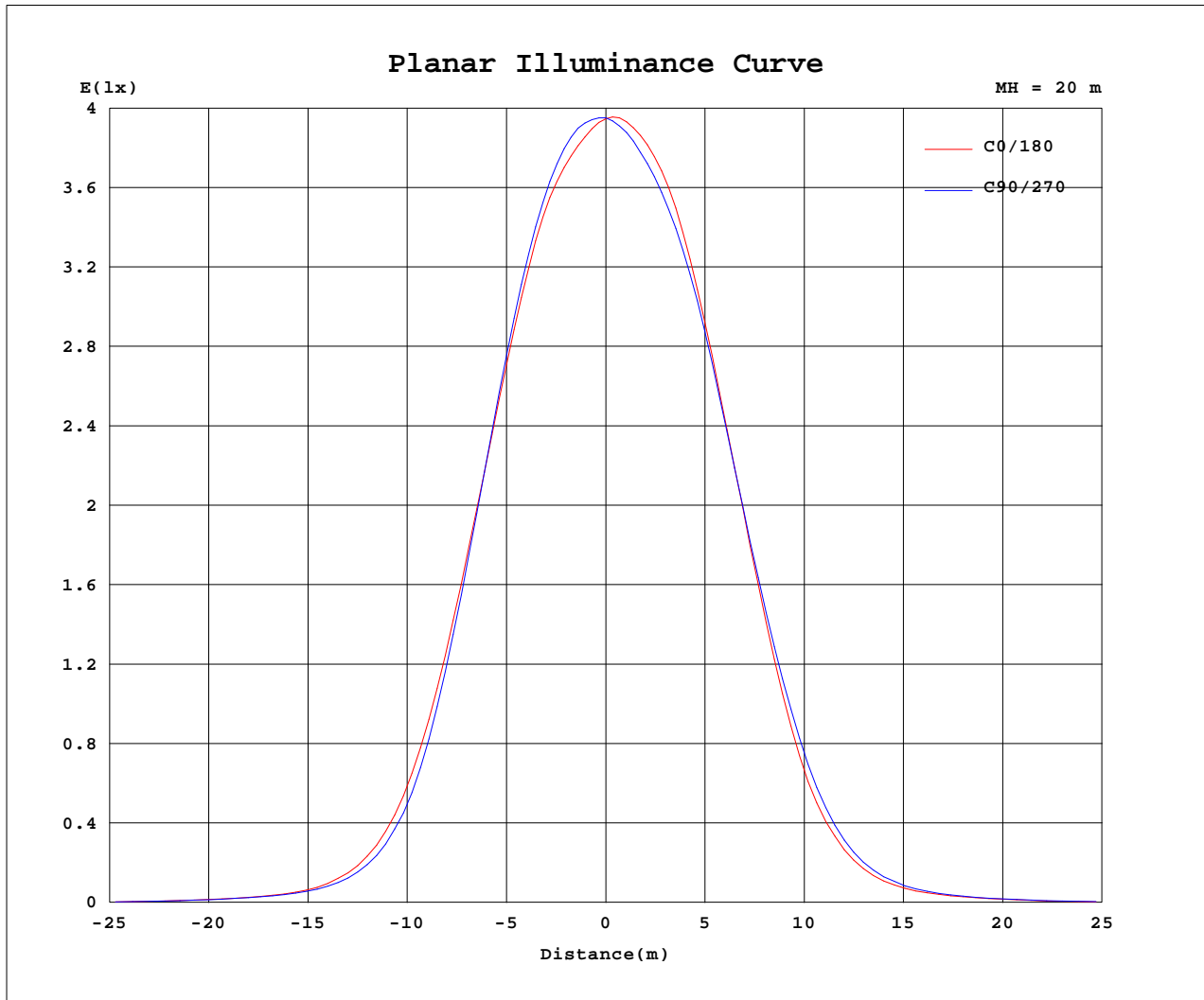
AvgL	cd/m2
L_0~180(65)av	1531
L_0~180(75)av	730
L_0~180(85)av	926
L_90~270(65)av	1503
L_90~270(75)av	709
L_90~270(85)av	848
L_45(65)av	1917
L_45(75)av	844
L_45(85)av	908

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-1084B 36R
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-1084B 36R
 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.: 2308040974
MFR.: RISE	SUR.: 0.0025m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	1580	1580	1580	1580	1580	1580	1580	1580	1580	1580	1580	1580						
5	1523	1538	1550	1559	1562	1564	1564	1553	1545	1528	1519	1514						
10	1397	1417	1418	1425	1435	1455	1466	1450	1442	1422	1407	1397						
15	1128	1150	1141	1141	1159	1197	1223	1224	1228	1206	1188	1146						
20	775	779	754	747	767	824	867	872	893	877	858	810						
25	420	404	375	365	378	430	478	493	526	523	508	462						
30	179	161	147	146	151	177	207	216	239	240	236	208						
35	70.2	62.4	58.1	60.1	62.3	71.0	79.8	85.7	94.4	95.4	93.7	84.2						
40	32.8	30.9	29.5	30.6	32.1	34.8	36.7	38.2	41.0	41.7	41.6	37.5						
45	18.0	18.5	17.7	17.1	18.7	20.1	19.3	22.0	22.6	21.0	22.5	21.0						
50	8.39	10.3	9.75	7.56	9.94	10.6	8.28	11.7	12.6	9.81	12.2	11.5						
55	4.63	5.00	4.77	4.44	4.81	4.93	4.57	5.37	5.92	5.08	5.80	5.60						
60	2.69	3.20	3.13	2.70	3.10	3.14	2.63	3.27	3.50	2.71	3.35	3.40						
65	1.67	2.03	2.00	1.57	1.95	1.94	1.57	1.97	2.01	1.61	1.92	1.99						
70	0.94	1.22	1.17	0.90	1.05	1.13	0.84	1.11	1.12	0.89	1.11	1.13						
75	0.51	0.62	0.61	0.50	0.42	0.56	0.43	0.51	0.51	0.42	0.51	0.55						
80	0.31	0.36	0.37	0.31	0.21	0.31	0.25	0.26	0.25	0.21	0.26	0.30						
85	0.23	0.25	0.26	0.22	0.20	0.20	0.17	0.17	0.16	0.15	0.16	0.19						
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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Operators:zoe
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