

Luminaire Photograph



Light Output Ratio:	76.7%	
Luminaire Power:	14.49 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.70	fine grid method.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: Zoe
Test Date: 2023-2-21

γ Range: 0 - 180DEG
γ 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: CLU028-1204C4-303H5M3-F1 Ra:90
LENS: PM-1082B 36R
DRIVER: 9290 028 088 350mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

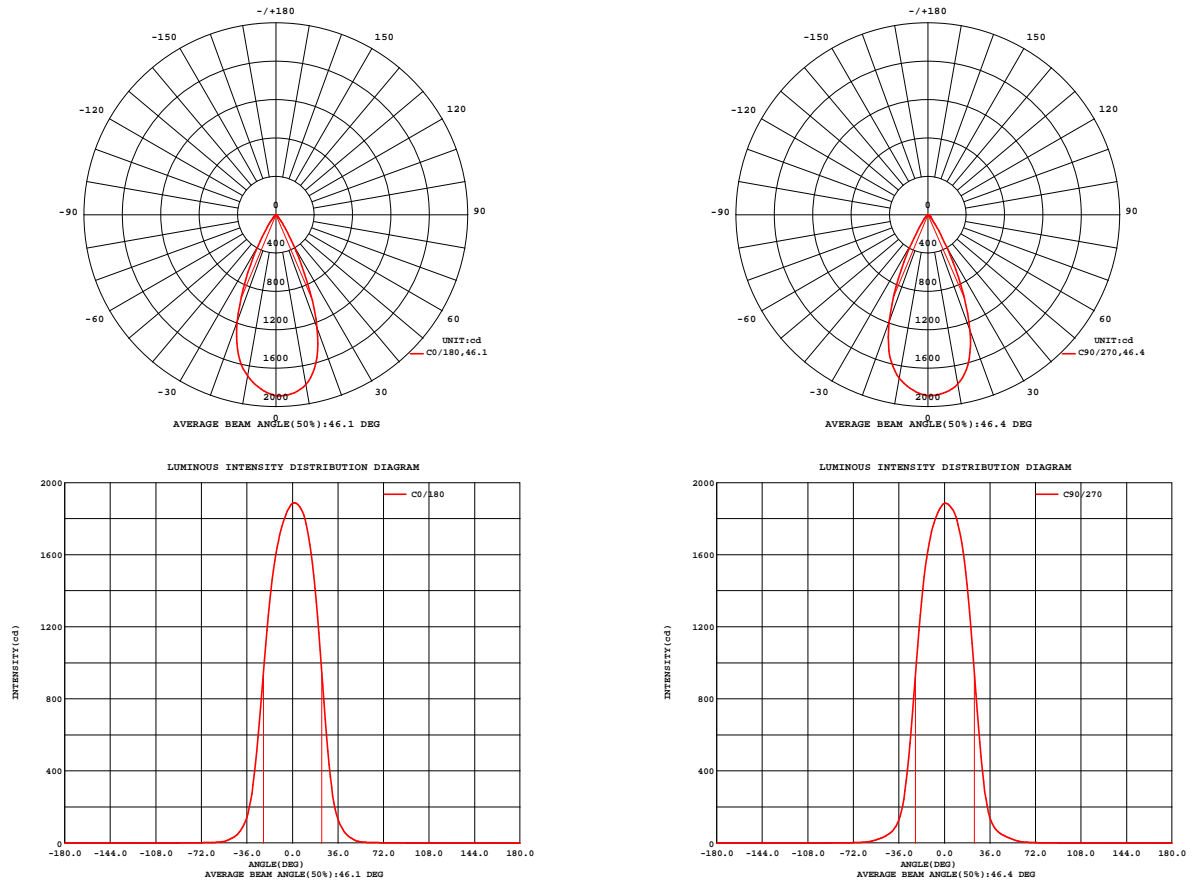


Fig. C0/C180

Fig. C90/C270

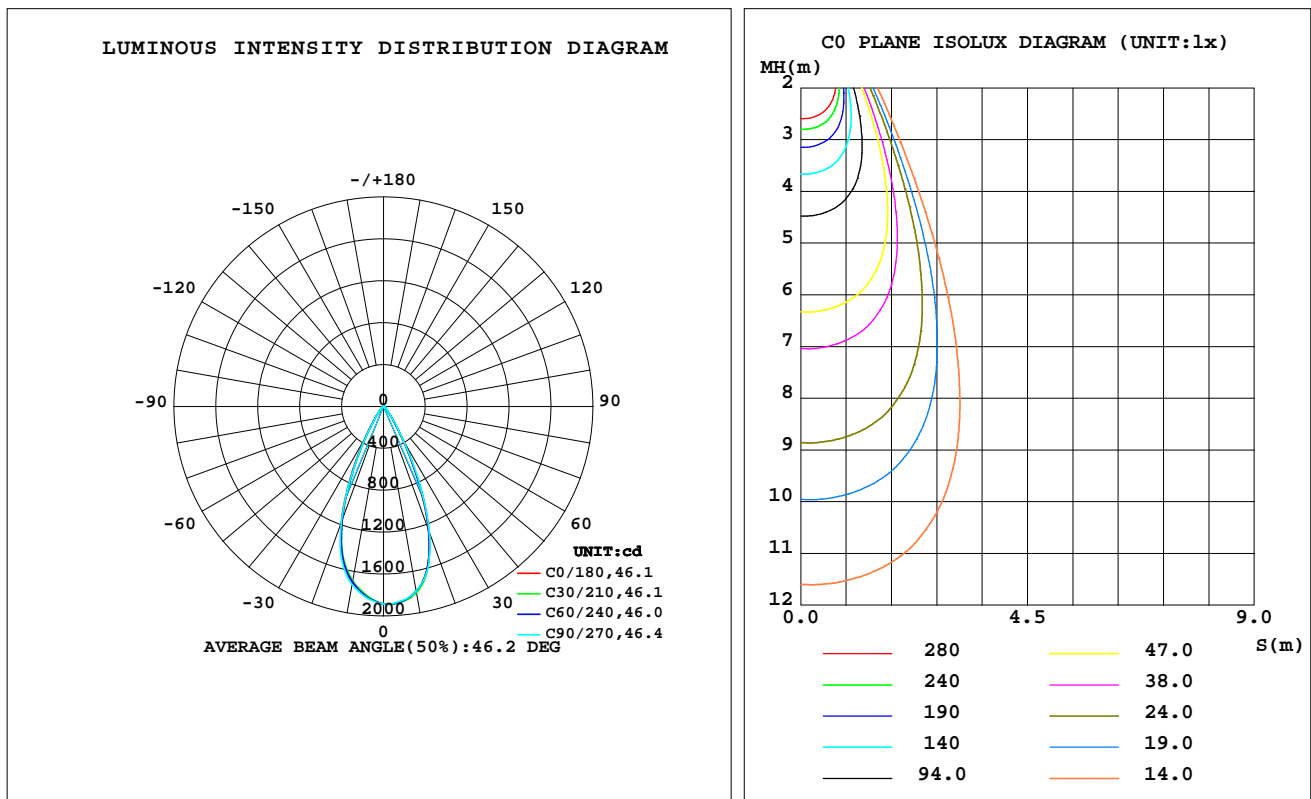
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LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.27V I:0.0669A P:14.494W PF:0.9814 Freq:49.99Hz Lamp Flux:1463.29x1 lm		
NAME: 2218.143-ACOT-70	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2302210183
MFR.: RISE	SUR.: 0.003737385m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 77.39 lm/W			
MODEL	CITIZEN	Imax(cd)	1889	S/MH(C0/180)	0.70
NOMINAL POWER(W)	15	LOR(%)	76.7	S/MH(C90/270)	0.69
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	1121.7	η UP,DN(C0-180)	0.0,39.2
NOMINAL FLUX(lm)	1463.29	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,37.5
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	220	η down(%)	76.7	CIBSE SHR MAX	0.70



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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	1797	1798	1790	1751	1706	1697	1728	1786	0- 10	173.7	173.7	15.5,11.9
20	1254	1272	1283	1238	1182	1155	1181	1256	10- 20	429.4	603.0	53.8,41.2
30	368.0	389.5	406.7	389.2	377.6	356.0	344.6	373.3	20- 30	350.4	953.4	85,65.2
40	75.70	80.81	82.72	82.84	80.02	77.16	76.35	78.63	30- 40	112.3	1066	95,72.8
50	12.46	30.92	31.88	30.21	18.89	26.39	26.70	28.56	40- 50	36.29	1102	98.2,75.3
60	3.205	7.462	8.016	8.142	3.823	7.334	6.698	6.598	50- 60	13.85	1116	99.5,76.3
70	1.573	2.039	2.337	2.250	1.822	2.057	2.073	1.890	60- 70	3.813	1120	99.8,76.5
80	0.6802	0.9777	1.176	1.080	0.8067	1.013	1.059	0.9289	70- 80	1.524	1121	100,76.6
90	0	0	0	0	0	0	0	0	80- 90	0.5068	1122	100,76.7
100	0	0	0	0	0	0	0	0	90-100	0	1122	100,76.7
110	0	0	0	0	0	0	0	0	100-110	0	1122	100,76.7
120	0	0	0	0	0	0	0	0	110-120	0	1122	100,76.7
130	0	0	0	0	0	0	0	0	120-130	0	1122	100,76.7
140	0	0	0	0	0	0	0	0	130-140	0	1122	100,76.7
150	0	0	0	0	0	0	0	0	140-150	0	1122	100,76.7
160	0	0	0	0	0	0	0	0	150-160	0	1122	100,76.7
170	0	0	0	0	0	0	0	0	160-170	0	1122	100,76.7
180	0	0	0	0	0	0	0	0	170-180	0	1122	100,76.7
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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Test Date:2023-2-21

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LUMINANCE LIMITATION CURVES

Test:U:220.27V I:0.0669A P:14.494W PF:0.9814 Freq:49.99Hz
Lamp Flux:1463.29x1 lm

NAME: 2218.143-ACOT-70

TYPE:

WEIGHT:

SPEC.: 3000K

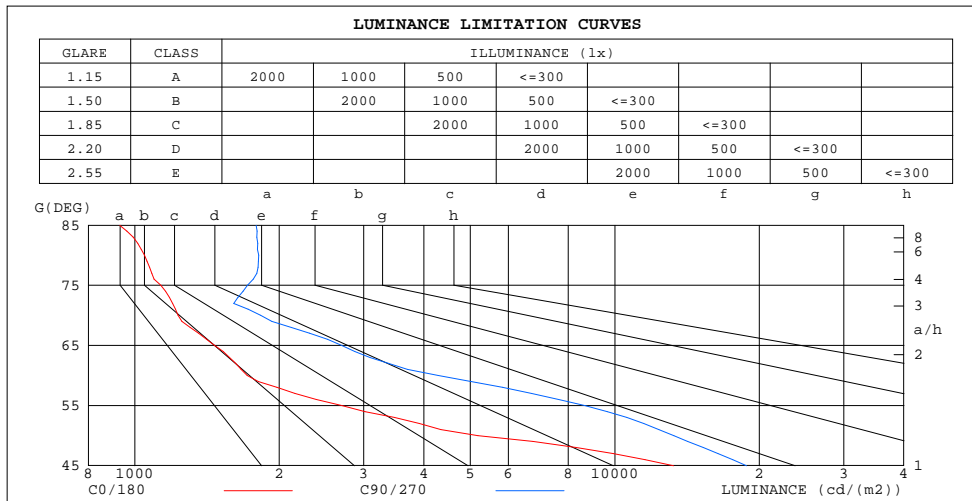
DIM.:

SERIAL No.: 2302210183

MFR.: RISE

SUR.: 0.003737385m2

Shielding Angle:



C Range: 0 - 360DEG
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.: 3000K

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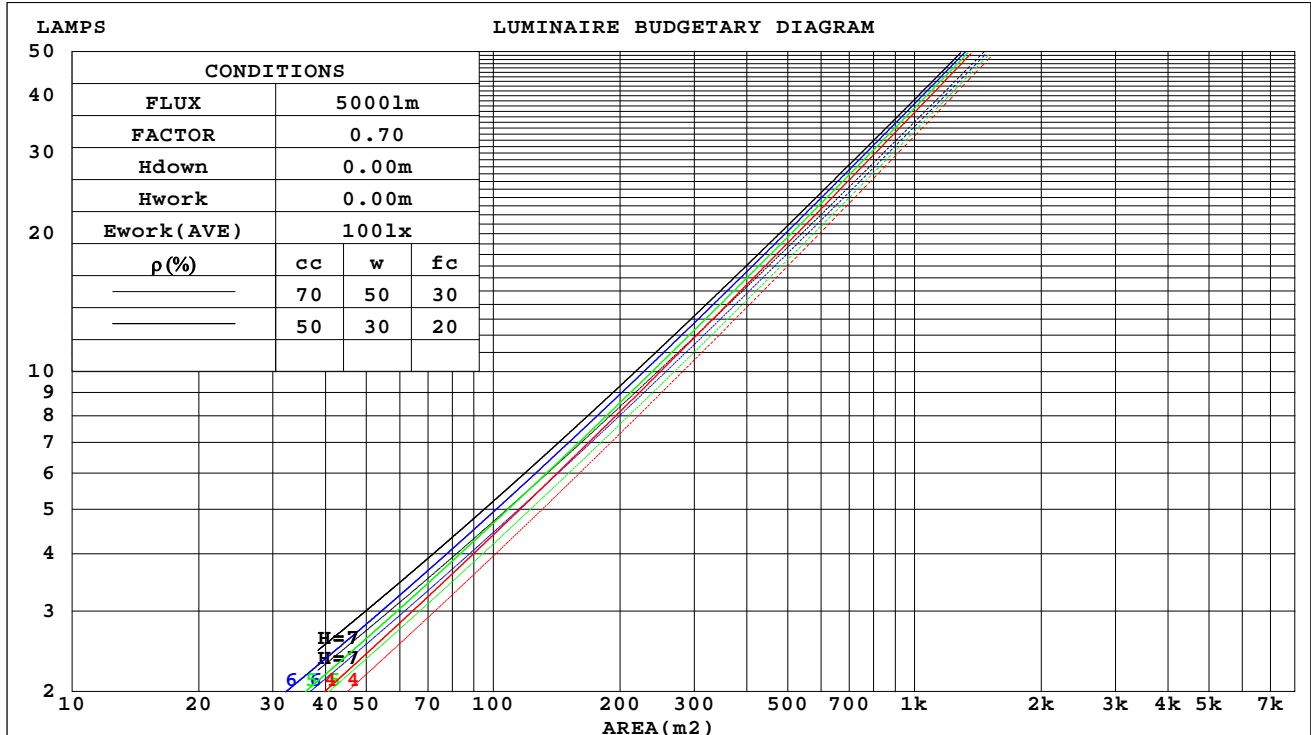
SERIAL No.: 2302210183

MFR.: RISE

SUR.: 0.003737385m2

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.: 2302210183
MFR.: RISE	SUR.: 0.003737385m2	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	.126	.071	.023	.120	.069	.022	.111	.064	.020	.102	.059	.019	.094	.054	.018	
2.0	.119	.065	.020	.115	.063	.019	.107	.059	.018	.099	.056	.017	.092	.052	.016	
3.0	.113	.060	.018	.109	.058	.018	.102	.055	.017	.096	.053	.016	.090	.050	.015	
4.0	.107	.055	.016	.104	.054	.016	.098	.052	.016	.092	.050	.015	.087	.048	.014	
5.0	.102	.052	.015	.099	.051	.015	.094	.049	.014	.089	.047	.014	.085	.045	.014	
6.0	.097	.048	.014	.094	.048	.014	.090	.046	.013	.086	.045	.013	.082	.043	.013	
7.0	.092	.046	.013	.090	.045	.013	.086	.044	.013	.083	.042	.012	.079	.041	.012	
8.0	.088	.043	.012	.087	.043	.012	.083	.042	.012	.080	.040	.012	.077	.039	.011	
9.0	.085	.041	.011	.083	.041	.011	.080	.040	.011	.077	.039	.011	.074	.038	.011	
10.0	.081	.039	.011	.080	.039	.011	.077	.038	.011	.075	.037	.011	.072	.036	.010	

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	.146	.146	.146	.125	.125	.125	.085	.085	.085	.049	.049	.049	.016	.016	.016		
1.0	.130	.121	.112	.112	.104	.096	.076	.071	.067	.044	.041	.039	.014	.013	.013		
2.0	.118	.102	.088	.101	.087	.076	.069	.061	.053	.040	.035	.031	.013	.011	.010		
3.0	.108	.087	.070	.093	.075	.061	.064	.052	.043	.037	.030	.025	.012	.010	.008		
4.0	.099	.076	.057	.085	.065	.050	.059	.045	.035	.034	.027	.021	.011	.009	.007		
5.0	.092	.066	.047	.079	.057	.041	.055	.040	.029	.032	.024	.017	.010	.008	.006		
6.0	.086	.059	.040	.074	.051	.035	.051	.036	.024	.030	.021	.015	.010	.007	.005		
7.0	.081	.053	.034	.070	.046	.029	.048	.032	.021	.028	.019	.012	.009	.006	.004		
8.0	.077	.048	.029	.066	.042	.025	.046	.029	.018	.027	.017	.011	.009	.006	.004		
9.0	.073	.044	.025	.063	.038	.022	.043	.027	.016	.025	.016	.009	.008	.005	.003		
10.0	.069	.041	.022	.060	.035	.019	.041	.025	.014	.024	.015	.008	.008	.005	.003		

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30minutes warm-up

UGR(Unified Glare Rating) Table

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SPEC.: 3000K					DIM.:			SERIAL No.: 2302210183		
MFR.: RISE					SUR.: 0.003737385m2			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	14.3	15.2	14.6	15.4	15.5	14.9	15.8	15.1	15.9	16.1
3H	14.2	15.0	14.5	15.2	15.4	14.8	15.6	15.0	15.8	16.0
4H	14.1	14.9	14.4	15.1	15.3	14.7	15.5	15.0	15.7	15.9
6H	14.1	14.8	14.4	15.0	15.2	14.7	15.4	15.0	15.6	15.8
8H	14.0	14.7	14.3	14.9	15.2	14.6	15.3	14.9	15.6	15.8
12H	14.0	14.6	14.3	14.9	15.2	14.6	15.2	14.9	15.5	15.8
4H 2H	14.2	14.9	14.4	15.1	15.4	14.7	15.5	15.0	15.7	15.9
3H	14.0	14.7	14.4	14.9	15.2	14.6	15.3	14.9	15.5	15.8
4H	14.0	14.5	14.3	14.8	15.2	14.6	15.1	14.9	15.4	15.7
6H	13.9	14.4	14.3	14.7	15.1	14.5	15.0	14.9	15.3	15.7
8H	13.9	14.3	14.2	14.7	15.0	14.5	14.9	14.9	15.3	15.7
12H	13.8	14.2	14.2	14.6	15.0	14.4	14.9	14.8	15.2	15.6
8H 4H	13.8	14.3	14.2	14.7	15.0	14.4	14.9	14.8	15.2	15.6
6H	13.8	14.2	14.2	14.6	15.0	14.4	14.8	14.8	15.2	15.6
8H	13.7	14.1	14.2	14.5	14.9	14.3	14.7	14.8	15.1	15.6
12H	13.7	14.0	14.1	14.4	14.9	14.3	14.6	14.8	15.1	15.5
12H 4H	13.8	14.2	14.2	14.6	15.0	14.4	14.8	14.8	15.2	15.6
6H	13.7	14.1	14.2	14.5	14.9	14.3	14.7	14.8	15.1	15.5
8H	13.7	14.0	14.1	14.4	14.9	14.3	14.6	14.8	15.0	15.5
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 2.7 / - 7.4					+ 2.7 / - 4.5				
1.5H	+ 4.0 / - 7.0					+ 3.7 / - 3.2				
2.0H	+ 4.1 / - 6.5					+ 3.9 / - 5.1				

CIE Pub.117, 1463 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.3)
Area: 0.00373738 m2

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UTILIZATION FACTORS TABLE

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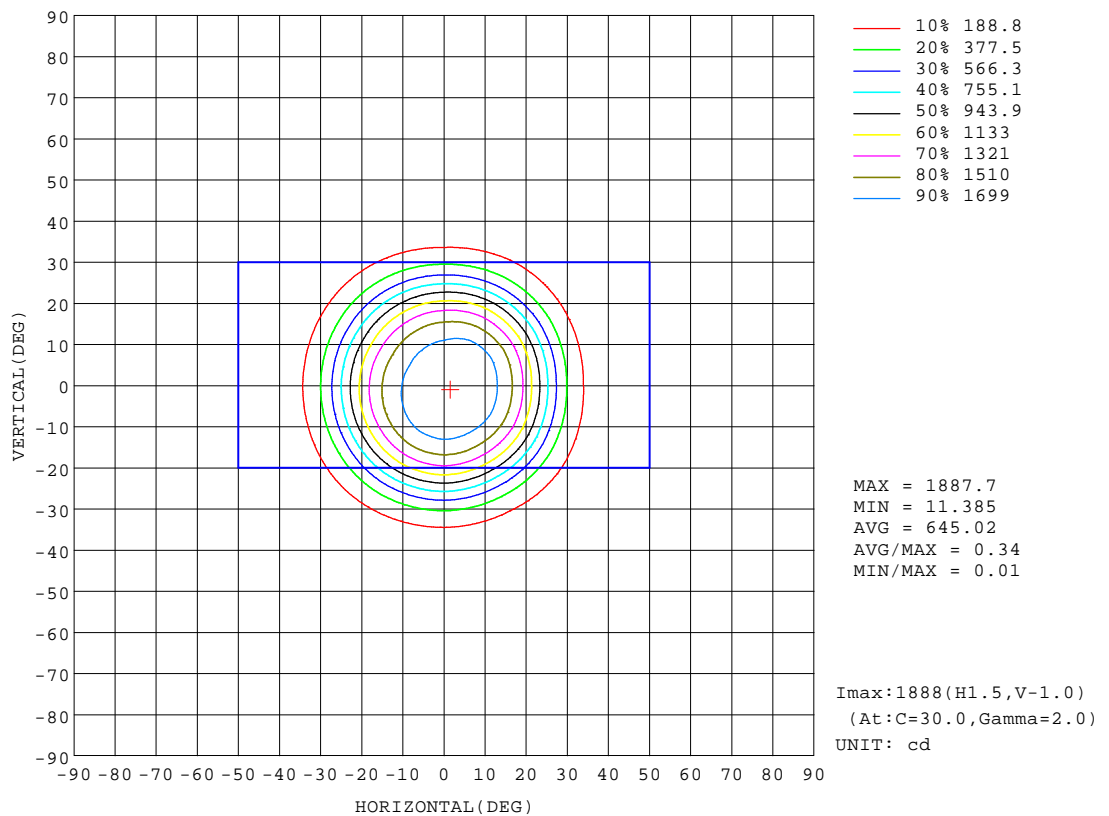
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	68	63	60	67	63	60	67	63	60	57
0.80	73	69	66	73	69	66	72	68	66	63
1.00	77	73	70	76	72	70	75	72	69	66
1.25	80	76	73	79	75	73	77	74	72	69
1.50	82	78	76	81	78	75	79	76	74	71
2.00	84	80	78	82	80	78	80	78	76	72
2.50	85	82	80	84	81	79	81	79	78	73
3.00	86	83	81	85	82	81	82	80	79	74
4.00	87	85	84	86	84	83	83	82	81	75
5.00	88	87	85	87	85	84	84	83	82	76
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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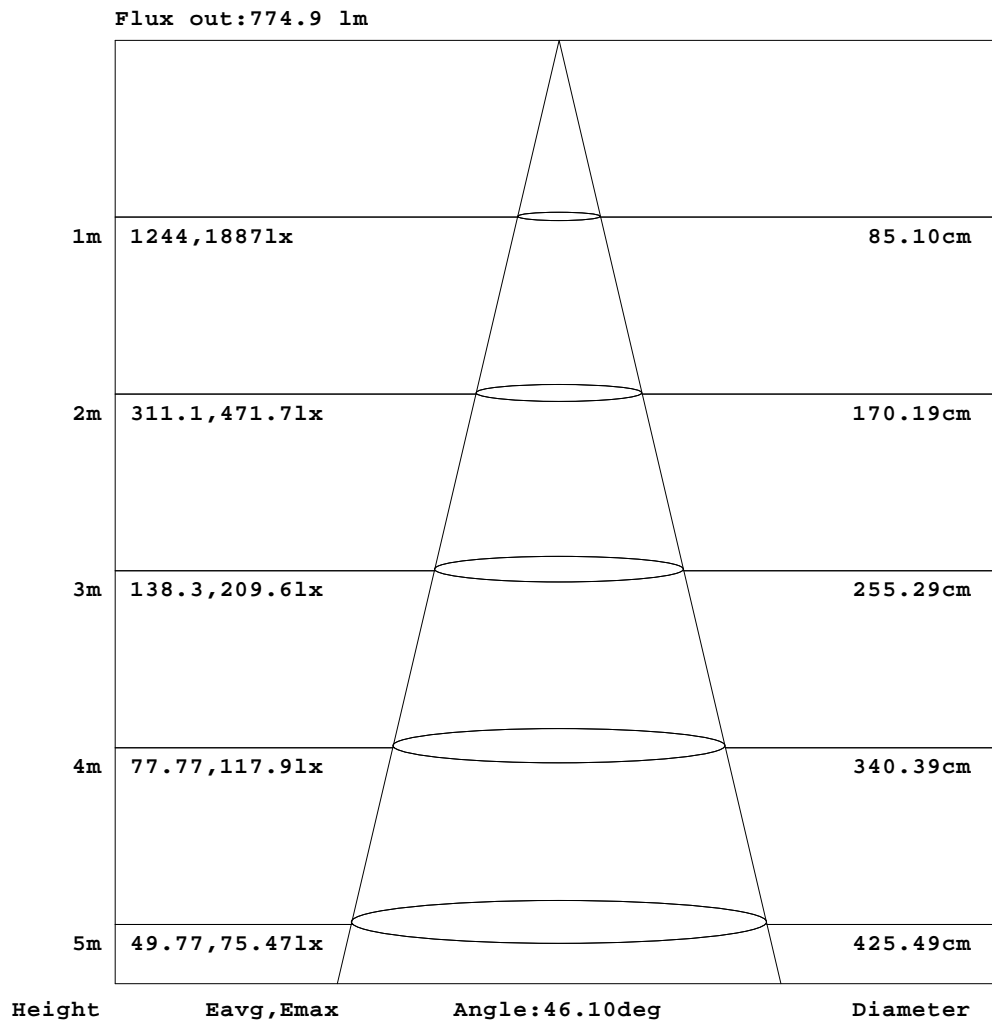


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AAI Figure

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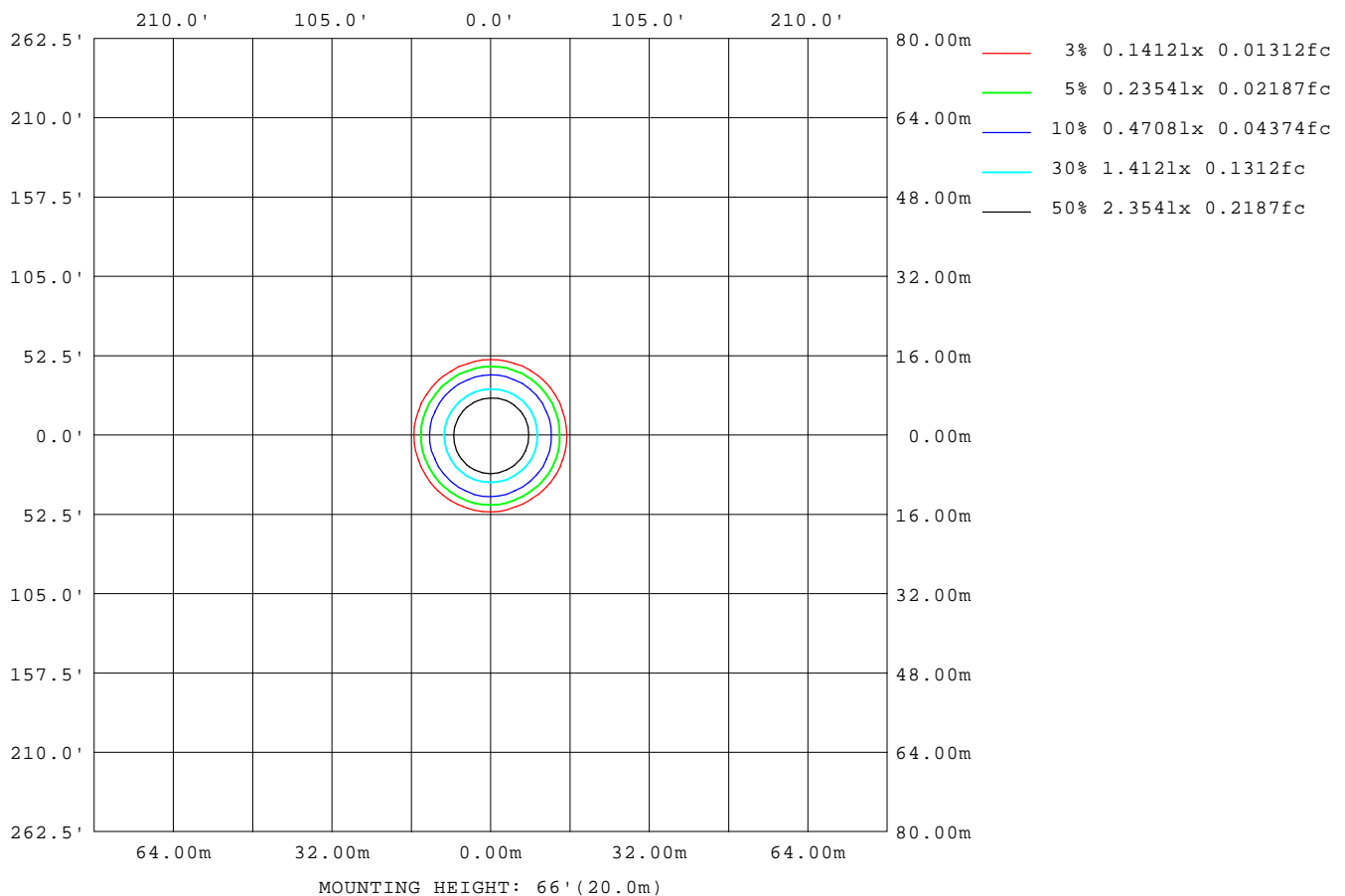
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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Humidity: 65.0%
Test Distance: 3.160m [K=1.0000]
Remarks: LAMP: CLU028-1204C4-303H5M3-F1 Ra:90
LENS: PM-1082B 36R
DRIVER: 9290 028 088 350mA
30minutes warm-up

LED Avg.L Report

Test:U:220.27V I:0.0669A P:14.494W PF:0.9814 Freq:49.99Hz Lamp Flux:1463.29x1 lm		
NAME: 2218.143-ACOT-70	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2302210183
MFR.: RISE	SUR.: 0.003737385m2	Shielding Angle:

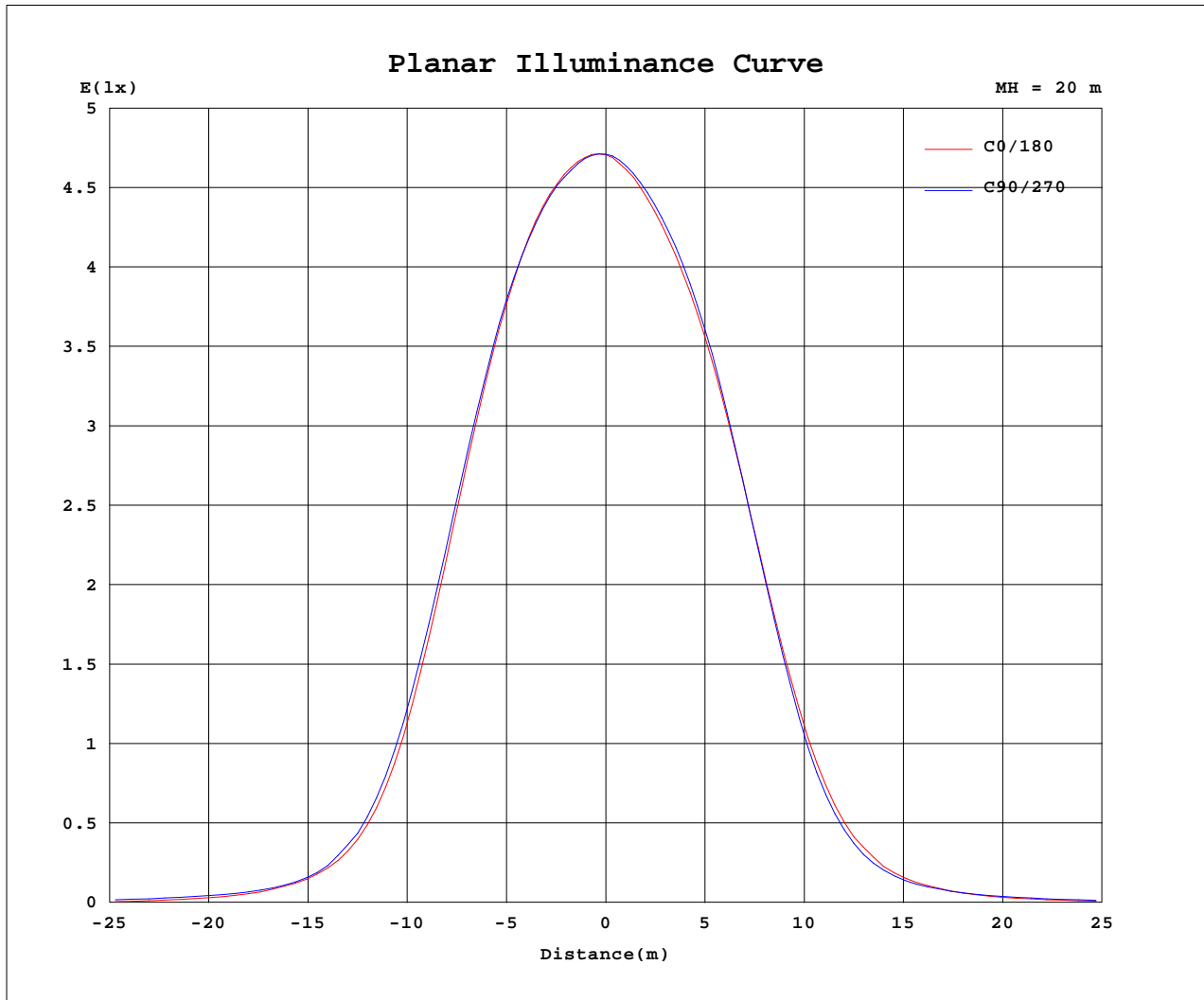
AvgL	cd/m2
L_0~180(65)av	1546
L_0~180(75)av	1251
L_0~180(85)av	1099
L_90~270(65)av	2555
L_90~270(75)av	1690
L_90~270(85)av	1604
L_45(65)av	2570
L_45(75)av	1516
L_45(85)av	1419

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:Zoe
Test Date:2023-2-21

γ Range: 0 - 180DEG
γ 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:CLU028-1204C4-303H5M3-F1 Ra:90
LENS:PM-1082B 36R
DRIVER: 9290 028 088 350mA
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: 2023-2-21

γ Range: 0 - 180DEG
 γ 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: CLU028-1204C4-303H5M3-F1 Ra:90
 LENS: PM-1082B 36R
 DRIVER: 9290 028 088 350mA
 30minutes warm-up



LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.27V I:0.0669A P:14.494W PF:0.9814 Freq:49.99Hz Lamp Flux:1463.29x1 lm		
NAME: 2218.143-ACOT-70	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2302210183
MFR.: RISE	SUR.: 0.003737385m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	1884	1884	1884	1884	1884	1884	1884	1884	1884	1884	1884	1884						
5	1873	1879	1872	1865	1850	1835	1822	1814	1825	1833	1856	1869						
10	1797	1805	1791	1790	1769	1733	1706	1689	1704	1728	1776	1796						
15	1605	1618	1606	1618	1595	1548	1513	1487	1503	1533	1589	1615						
20	1254	1280	1264	1283	1262	1214	1182	1152	1158	1181	1241	1272						
25	780	813	801	827	809	772	755	728	721	729	771	796						
30	368	394	385	407	398	380	378	361	351	345	367	380						
35	159	168	161	170	170	165	166	159	153	149	158	163						
40	75.7	81.5	80.1	82.7	84.9	80.8	80.0	79.3	75.1	76.3	77.7	79.5						
45	35.1	48.1	48.3	49.7	49.1	47.4	37.9	44.8	44.2	44.6	45.8	46.4						
50	12.5	30.8	31.0	31.9	31.1	29.3	18.9	26.5	26.3	26.7	28.1	29.0						
55	5.79	17.3	17.5	18.6	18.5	17.6	7.48	15.8	15.5	15.2	15.6	16.1						
60	3.20	7.00	7.92	8.02	8.36	7.92	3.82	7.53	7.14	6.70	6.67	6.52						
65	2.32	3.84	4.13	4.26	4.35	4.19	2.57	3.91	4.01	3.82	3.77	3.56						
70	1.57	1.83	2.25	2.34	2.40	2.10	1.82	1.95	2.17	2.07	2.06	1.72						
75	1.10	1.24	1.62	1.66	1.68	1.36	1.32	1.32	1.64	1.61	1.58	1.24						
80	0.68	0.84	1.11	1.18	1.20	0.96	0.81	0.91	1.11	1.06	1.03	0.82						
85	0.30	0.38	0.52	0.58	0.56	0.48	0.41	0.43	0.50	0.46	0.44	0.36						
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
Temperature:25.3℃
Operators:Zoe
Test Date:2023-2-21

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
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Humidity:65.0%
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