

Luminaire Photograph



Light Output Ratio:	75.3%	
Luminaire Power:	14.48 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: 2023-2-22

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: CLU028-1204C4-303H5M3-F1 Ra:90
LENS: PM-1082C 50R
DRIVER: 9290 028 088 350mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

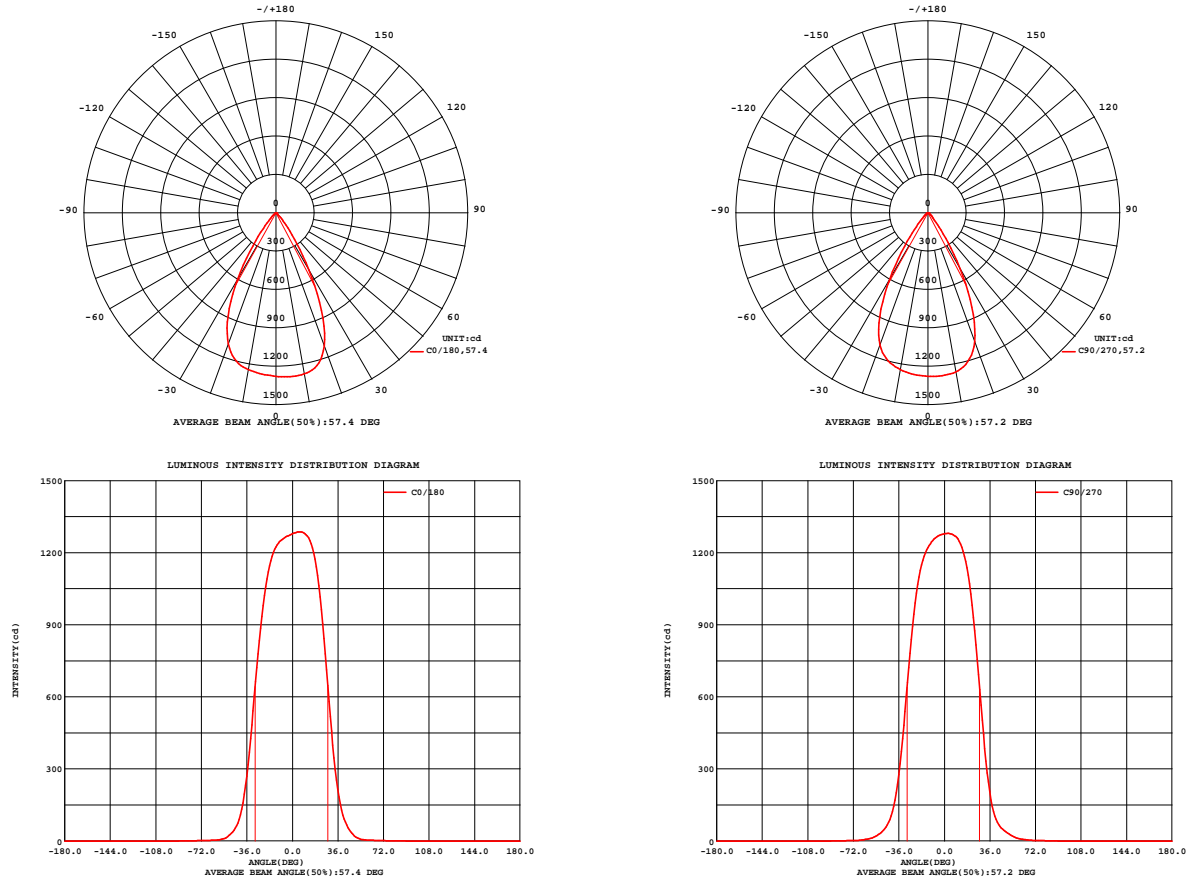


Fig. C0/C180

Fig. C90/C270

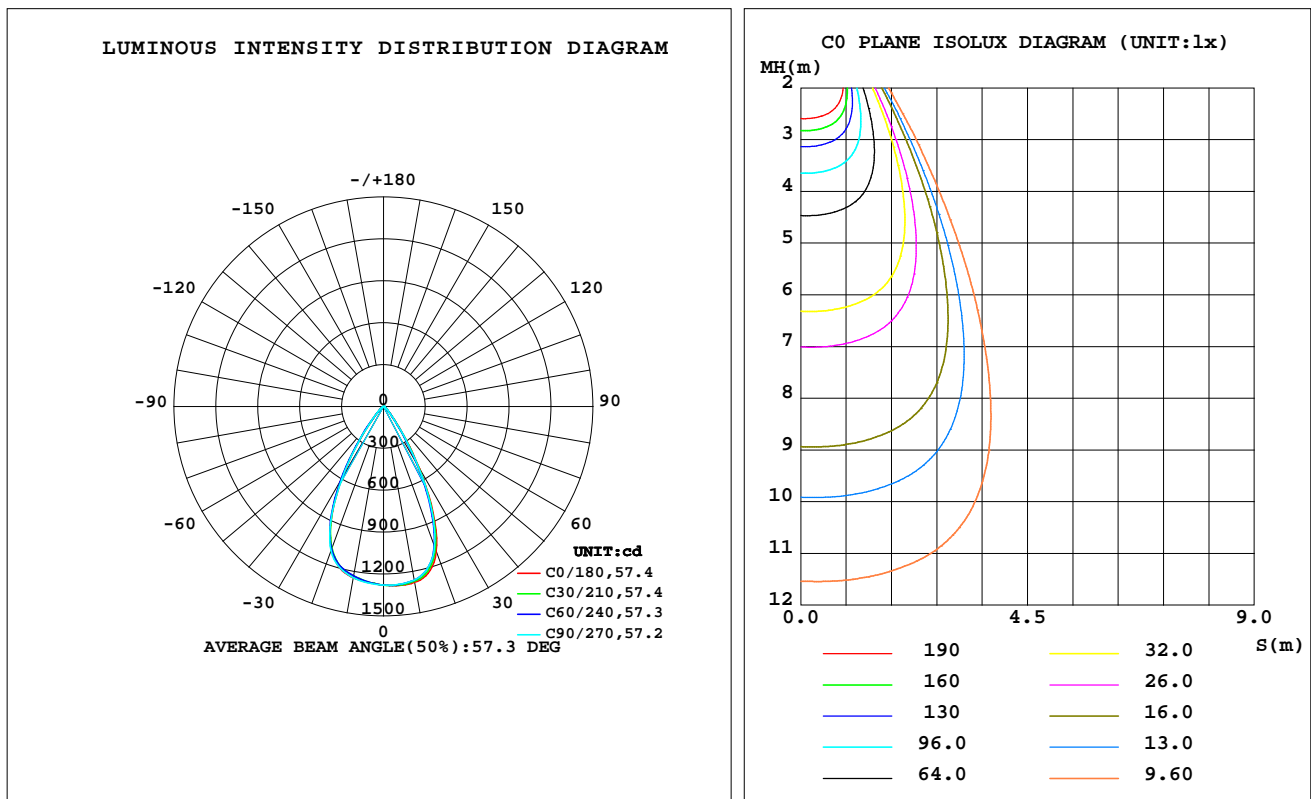
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30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.27V I:0.0668A P:14.476W PF:0.9823 Freq:49.99Hz Lamp Flux:1463.29x1 lm		
NAME: 2218.143-ACOT-70	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2302220185
MFR.: RISE	SUR.: 0.003737385m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 76.09 lm/W			
MODEL	CITIZEN	I _{max} (cd)	1287	S/MH(C0/180)	0.87
NOMINAL POWER(W)	15	LOR(%)	75.3	S/MH(C90/270)	0.87
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	1101.5	UP,DN(C0-180)	0.0,36.4
NOMINAL FLUX(lm)	1463.29	CIE CLASS	DIRECT	UP,DN(C180-360)	0.0,38.9
LAMPS INSIDE	1	up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	220	down(%)	75.3	CIBSE SHR MAX	0.85



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ZONAL FLUX DIAGRAM

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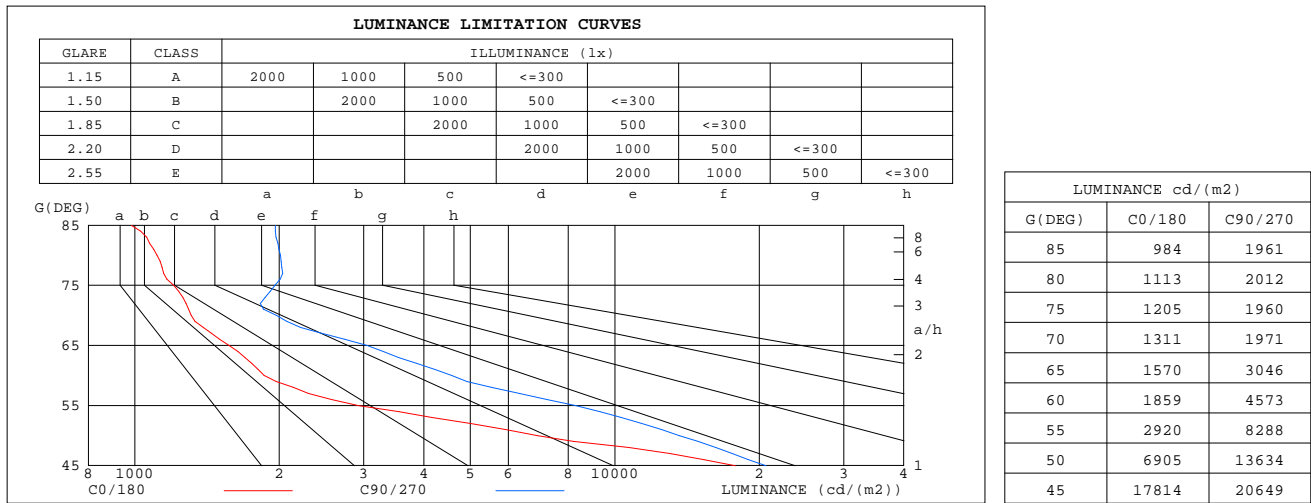
	C0	C45	C90	C135	C180	C225	C270	C315		zone	total	%lum,lamp
10	1279	1267	1263	1267	1246	1232	1245	1276	0- 10	121.2	121.2	11,8.28
20	1105	1075	1070	1093	1090	1084	1099	1131	10- 20	338.3	459.5	41.7,31.4
30	517.8	494.1	503.0	541.4	602.2	620.7	599.6	572.5	20- 30	384.9	844.4	76.7,57.7
40	107.3	104.1	103.9	112.5	132.8	146.6	143.9	134.0	30- 40	185.6	1030	93.5,70.4
50	16.60	32.95	32.75	33.33	22.85	34.70	34.54	35.82	40- 50	49.73	1080	98,73.8
60	3.477	8.355	8.544	8.662	3.979	8.687	8.756	8.762	50- 60	15.30	1095	99.4,74.8
70	1.677	2.186	2.519	2.367	1.878	2.094	2.080	1.965	60- 70	4.355	1099	99.8,75.1
80	0.7228	1.075	1.306	1.169	0.8229	0.9893	1.018	0.9360	70- 80	1.591	1101	100,75.2
90	0	0	0	0	0	0	0	0	80- 90	0.5292	1101	100,75.3
100	0	0	0	0	0	0	0	0	90-100	0	1101	100,75.3
110	0	0	0	0	0	0	0	0	100-110	0	1101	100,75.3
120	0	0	0	0	0	0	0	0	110-120	0	1101	100,75.3
130	0	0	0	0	0	0	0	0	120-130	0	1101	100,75.3
140	0	0	0	0	0	0	0	0	130-140	0	1101	100,75.3
150	0	0	0	0	0	0	0	0	140-150	0	1101	100,75.3
160	0	0	0	0	0	0	0	0	150-160	0	1101	100,75.3
170	0	0	0	0	0	0	0	0	160-170	0	1101	100,75.3
180	0	0	0	0	0	0	0	0	170-180	0	1101	100,75.3
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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LENS:PM-1082C 50R
DRIVER: 9290 028 088 350mA
30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:220.27V I:0.0668A P:14.476W PF:0.9823 Freq:49.99Hz Lamp Flux:1463.29x1 lm		
NAME: 2218.143-ACOT-70	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2302220185
MFR.: RISE	SUR.: 0.003737385m2	Shielding Angle:



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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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NAME: 2218.143-ACOT-70

TYPE:

WEIGHT:

SPEC.: 3000K

DIM.:

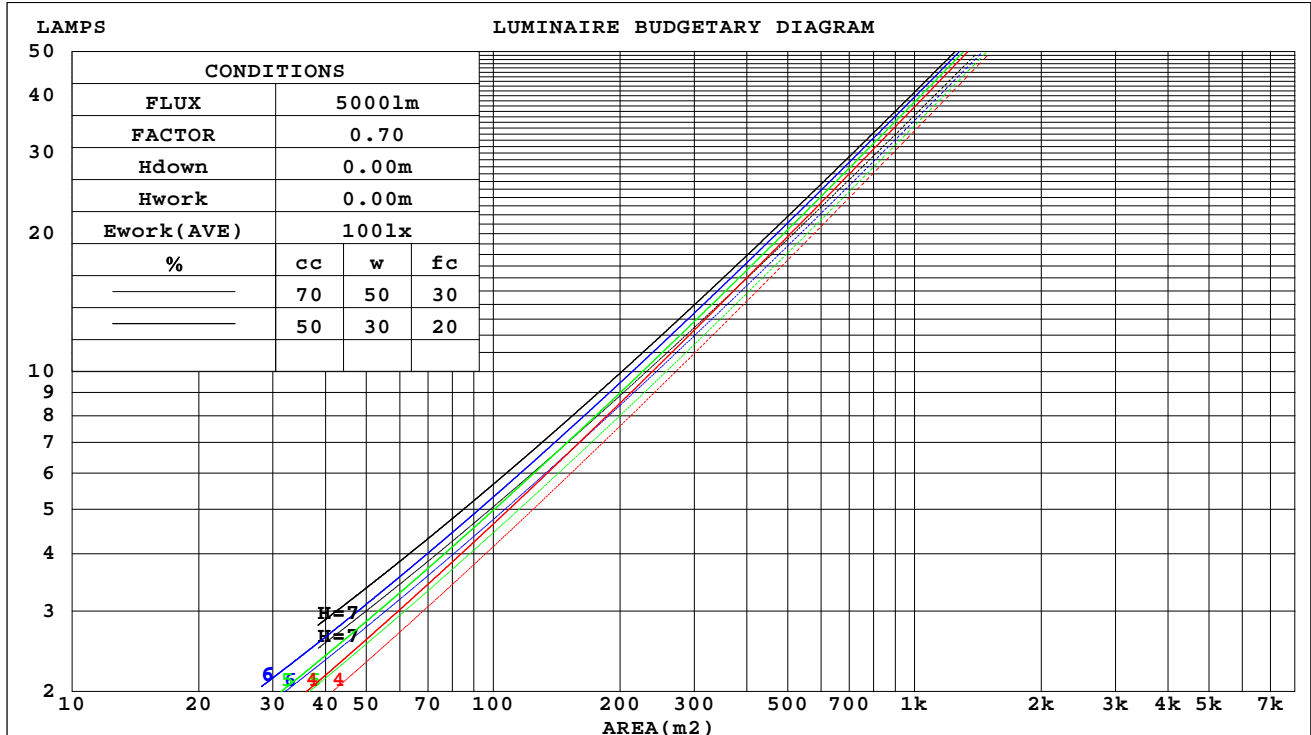
SERIAL No.: 2302220185

MFR.: RISE

SUR.: 0.003737385m2

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.: 2302220185
MFR.: RISE	SUR.: 0.003737385m2	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	.131	.075	.024	.126	.072	.023	.117	.067	.021	.108	.062	.020	.100	.058	.019		
2.0	.126	.069	.021	.121	.067	.021	.113	.063	.020	.106	.059	.019	.099	.056	.018		
3.0	.120	.064	.019	.116	.062	.019	.109	.059	.018	.103	.056	.017	.097	.054	.017		
4.0	.114	.059	.017	.111	.058	.017	.105	.056	.017	.099	.053	.016	.094	.051	.016		
5.0	.108	.055	.016	.106	.054	.016	.101	.052	.015	.096	.051	.015	.092	.049	.015		
6.0	.104	.052	.015	.101	.051	.015	.097	.050	.014	.093	.048	.014	.089	.047	.014		
7.0	.099	.049	.014	.097	.048	.014	.093	.047	.014	.089	.046	.013	.086	.045	.013		
8.0	.095	.046	.013	.093	.046	.013	.089	.045	.013	.086	.044	.013	.083	.043	.012		
9.0	.091	.044	.012	.089	.043	.012	.086	.043	.012	.083	.042	.012	.080	.041	.012		
10.0	.087	.042	.012	.086	.041	.012	.083	.041	.011	.080	.040	.011	.078	.039	.011		

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	.143	.143	.143	.123	.123	.123	.084	.084	.084	.048	.048	.048	.015	.015	.015	
1.0	.129	.118	.109	.110	.102	.094	.075	.070	.065	.043	.040	.038	.014	.013	.012	
2.0	.117	.100	.085	.100	.086	.074	.069	.059	.051	.040	.035	.030	.013	.011	.010	
3.0	.108	.085	.068	.092	.074	.059	.063	.051	.041	.037	.030	.024	.012	.010	.008	
4.0	.100	.074	.055	.086	.064	.048	.059	.045	.034	.034	.026	.020	.011	.009	.007	
5.0	.093	.066	.045	.080	.057	.039	.055	.040	.028	.032	.023	.016	.010	.008	.005	
6.0	.088	.059	.038	.075	.051	.033	.052	.036	.023	.030	.021	.014	.010	.007	.005	
7.0	.083	.053	.032	.071	.046	.028	.049	.032	.020	.029	.019	.012	.009	.006	.004	
8.0	.079	.048	.027	.068	.042	.024	.047	.029	.017	.027	.017	.010	.009	.006	.003	
9.0	.075	.044	.024	.064	.038	.021	.045	.027	.015	.026	.016	.009	.008	.005	.003	
10.0	.071	.041	.021	.061	.036	.018	.043	.025	.013	.025	.015	.008	.008	.005	.003	

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UGR(Unified Glare Rating) Table

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SPEC.: 3000K					DIM.:			SERIAL No.: 2302220185		
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	16.6	17.6	16.9	17.7	17.9	16.6	17.5	16.8	17.7	17.8
3H	16.5	17.3	16.7	17.5	17.7	16.5	17.3	16.7	17.5	17.7
4H	16.4	17.2	16.7	17.4	17.7	16.4	17.2	16.7	17.4	17.6
6H	16.3	17.1	16.6	17.3	17.6	16.3	17.1	16.6	17.3	17.6
8H	16.3	17.0	16.6	17.3	17.5	16.3	17.0	16.6	17.3	17.5
12H	16.2	16.9	16.6	17.2	17.5	16.2	16.9	16.6	17.2	17.5
4H 2H	16.4	17.2	16.7	17.5	17.7	16.4	17.2	16.7	17.4	17.6
3H	16.3	17.0	16.6	17.2	17.5	16.2	16.9	16.6	17.2	17.5
4H	16.2	16.8	16.5	17.1	17.4	16.2	16.8	16.5	17.1	17.4
6H	16.1	16.7	16.5	17.0	17.3	16.1	16.7	16.5	17.0	17.3
8H	16.1	16.6	16.5	16.9	17.3	16.1	16.6	16.5	16.9	17.3
12H	16.0	16.5	16.4	16.9	17.2	16.0	16.5	16.5	16.9	17.3
8H 4H	16.1	16.6	16.5	16.9	17.3	16.0	16.6	16.4	16.9	17.3
6H	16.0	16.4	16.4	16.8	17.2	16.0	16.4	16.4	16.8	17.2
8H	15.9	16.3	16.4	16.7	17.2	16.0	16.3	16.4	16.7	17.2
12H	15.9	16.2	16.4	16.6	17.1	15.9	16.2	16.4	16.7	17.2
12H 4H	16.0	16.5	16.4	16.9	17.2	16.0	16.5	16.4	16.8	17.2
6H	15.9	16.3	16.4	16.7	17.2	15.9	16.3	16.4	16.7	17.2
8H	15.9	16.2	16.4	16.6	17.1	15.9	16.2	16.4	16.7	17.1
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 3.5 / - 8.8					+ 3.2 / - 5.9				
1.5H	+ 5.3 / - 7.3					+ 4.7 / - 4.5				
2.0H	+ 4.6 / - 6.8					+ 4.2 / - 4.5				

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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MFR.: RISE	SUR.: 0.003737385m2	Shielding Angle:

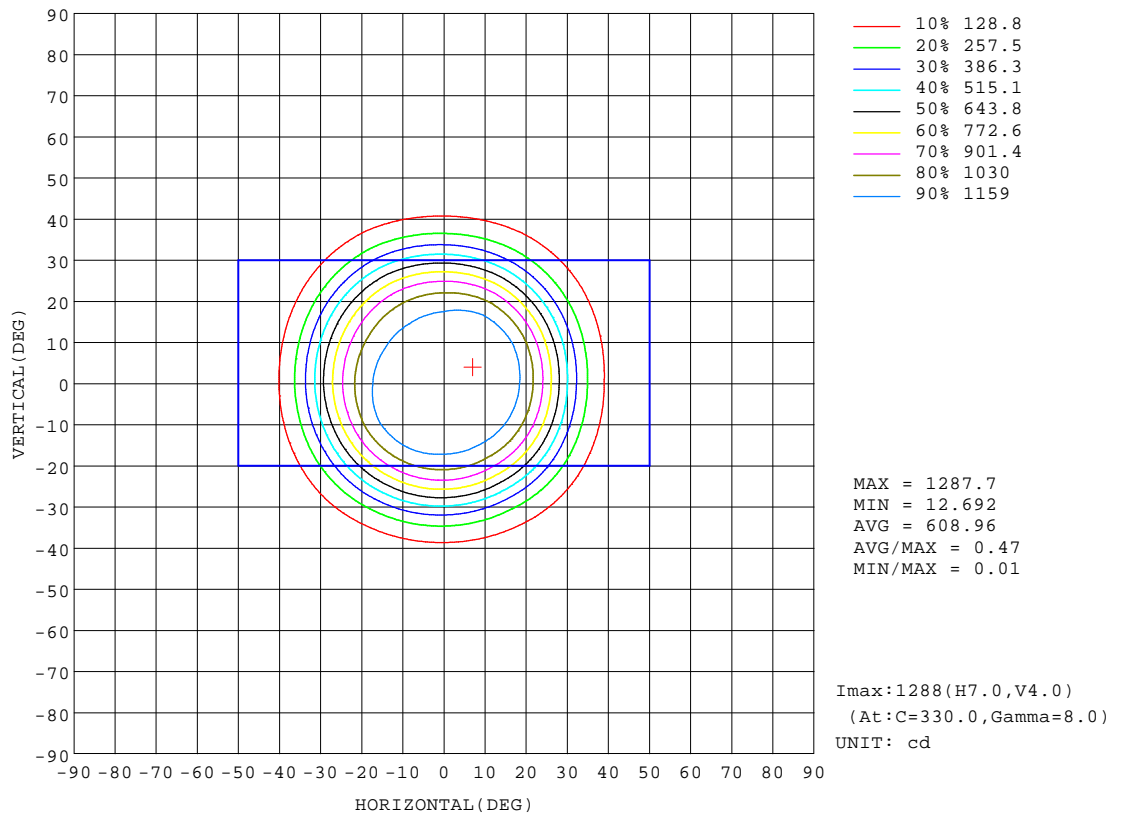
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	66	61	58	65	61	58	65	61	58	55
0.80	71	67	64	71	67	64	70	66	64	61
1.00	75	71	68	74	70	68	73	70	67	64
1.25	78	74	71	77	74	71	76	73	70	67
1.50	80	76	74	79	76	73	77	75	73	69
2.00	82	79	76	81	78	76	79	76	75	71
2.50	83	80	78	82	79	77	80	78	76	71
3.00	84	82	80	83	81	79	80	79	77	72
4.00	86	84	82	84	82	81	81	80	79	74
5.00	87	85	84	85	84	82	82	81	80	74
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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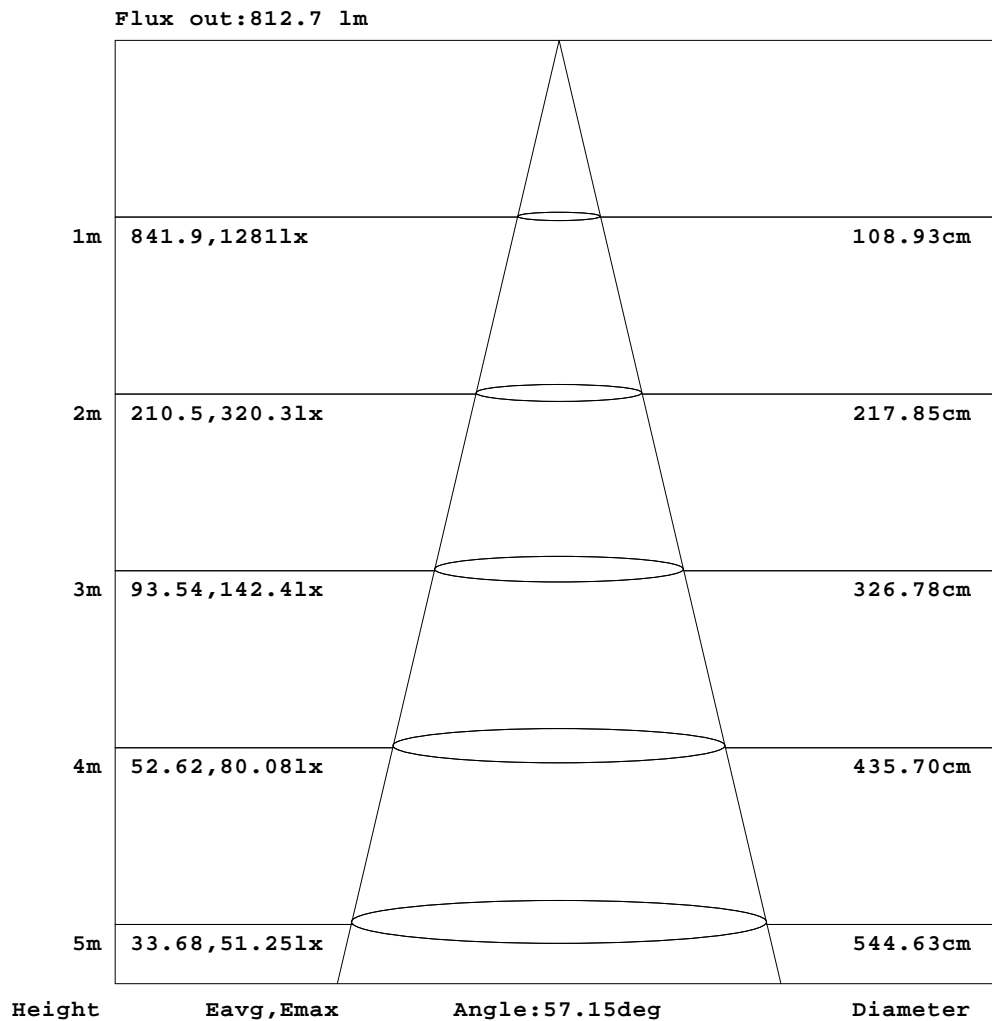


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AAI Figure

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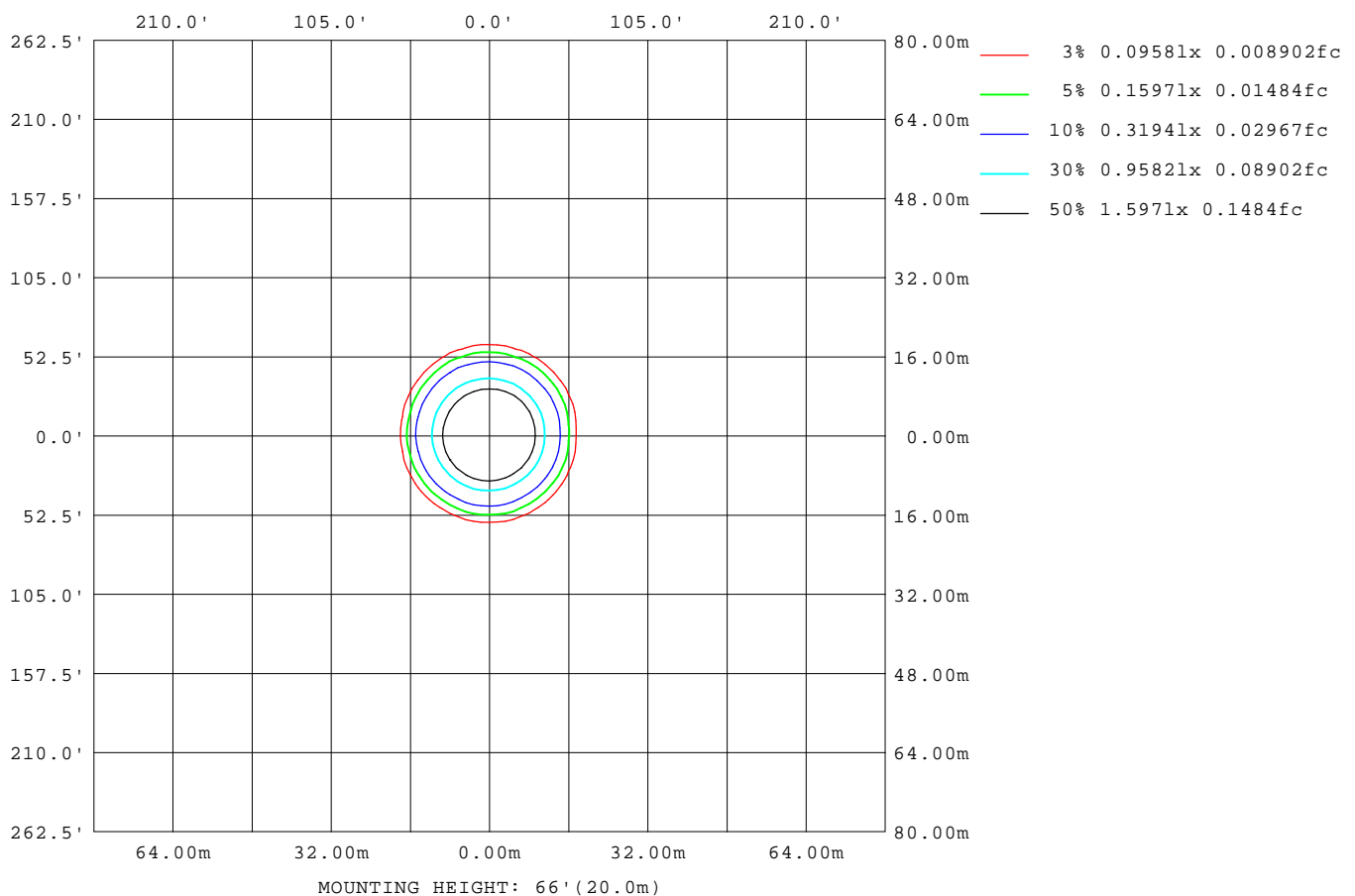
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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30minutes warm-up

LED Avg.L Report

Test:U:220.27V I:0.0668A P:14.476W PF:0.9823 Freq:49.99Hz Lamp Flux:1463.29x1 lm		
NAME: 2218.143-ACOT-70	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2302220185
MFR.: RISE	SUR.: 0.003737385m2	Shielding Angle:

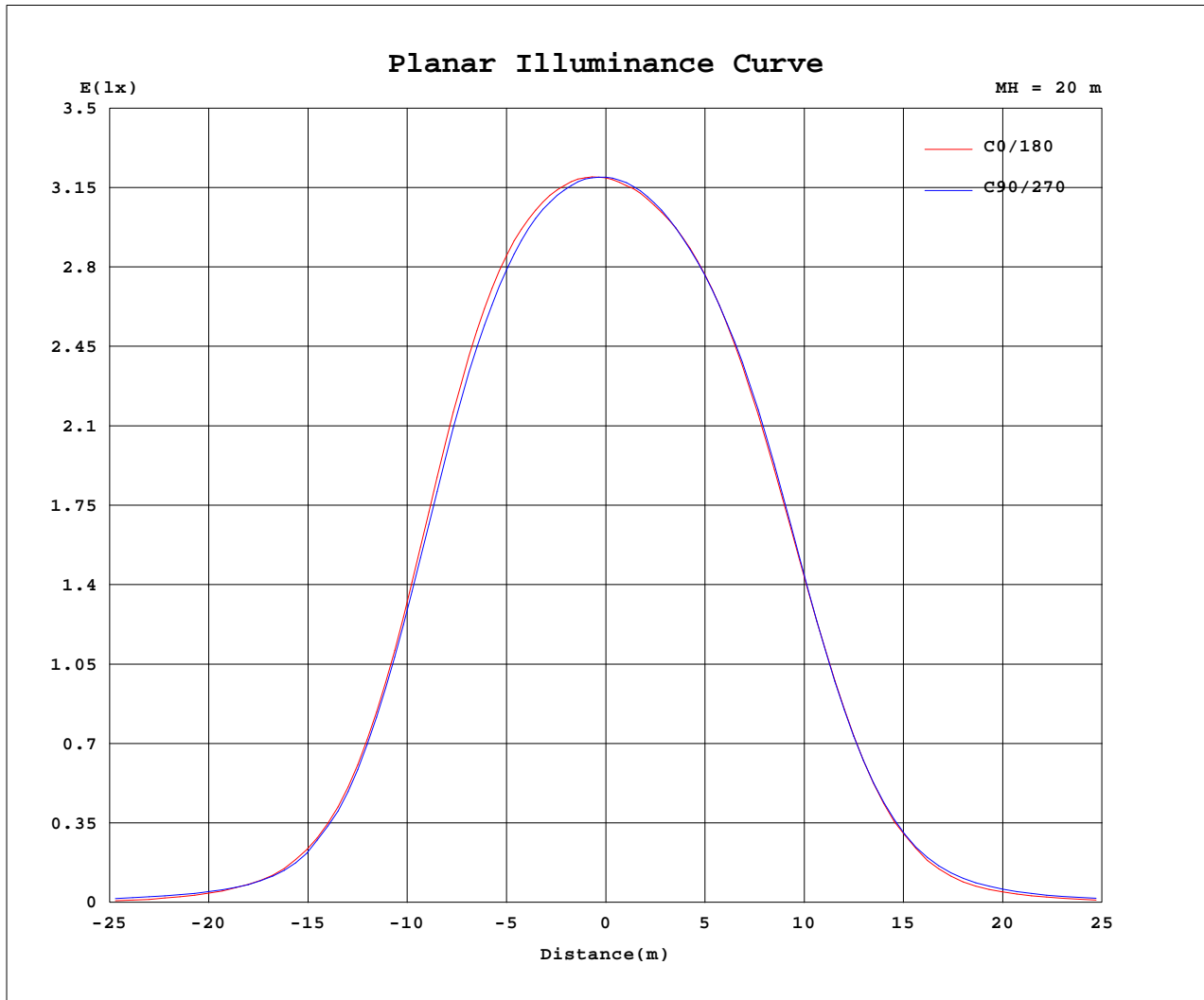
AvgL	cd/m2
L_0~180(65)av	1620
L_0~180(75)av	1304
L_0~180(85)av	1137
L_90~270(65)av	2946
L_90~270(75)av	1764
L_90~270(85)av	1667
L_45(65)av	2950
L_45(75)av	1588
L_45(85)av	1497

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:Zoe
Test Date:2023-2-22

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:CLU028-1204C4-303H5M3-F1 Ra:90
LENS:PM-1082C 50R
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: 2023-2-22

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: CLU028-1204C4-303H5M3-F1 Ra:90
 LENS: PM-1082C 50R
 DRIVER: 9290 028 088 350mA
 30minutes warm-up

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.27V I:0.0668A P:14.476W PF:0.9823 Freq:49.99Hz Lamp Flux:1463.29x1 lm		
NAME: 2218.143-ACOT-70	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2302220185
MFR.: RISE	SUR.: 0.003737385m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	1279	1279	1279	1279	1279	1279	1279	1279	1279	1279	1279	1279						
5	1286	1284	1280	1278	1277	1274	1266	1260	1261	1269	1279	1285						
10	1279	1271	1263	1263	1268	1267	1246	1231	1232	1245	1270	1283						
15	1237	1222	1205	1205	1221	1228	1201	1187	1186	1198	1236	1251						
20	1105	1086	1063	1070	1086	1100	1090	1079	1088	1099	1131	1131						
25	843	826	801	816	832	861	886	888	900	893	902	880						
30	518	504	484	503	523	559	602	616	625	600	588	557						
35	254	247	229	245	253	281	318	335	344	322	311	285						
40	107	107	102	104	106	119	133	141	152	144	140	128						
45	47.1	56.3	54.4	54.6	55.3	58.9	53.3	65.1	69.5	67.0	68.2	64.4						
50	16.6	33.2	32.7	32.8	32.8	33.9	22.8	34.1	35.3	34.5	36.2	35.5						
55	6.26	17.4	17.2	17.8	17.7	18.4	8.30	17.9	18.7	17.8	18.8	18.2						
60	3.48	8.14	8.57	8.54	8.69	8.64	3.98	8.51	8.86	8.76	8.90	8.62						
65	2.48	4.18	4.64	4.81	4.82	4.66	2.64	4.50	4.69	4.50	4.59	4.26						
70	1.68	1.94	2.44	2.52	2.53	2.20	1.88	2.01	2.17	2.08	2.11	1.82						
75	1.17	1.36	1.84	1.90	1.88	1.47	1.36	1.31	1.55	1.52	1.54	1.27						
80	0.72	0.92	1.23	1.31	1.31	1.03	0.82	0.91	1.07	1.02	1.02	0.85						
85	0.32	0.42	0.58	0.64	0.63	0.51	0.42	0.43	0.49	0.45	0.44	0.37						
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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