

Luminaire Photograph



Light Output Ratio:	78.6%	
Luminaire Power:	8.334 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: 2023-8-11

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: CXB1304-0000-000F0UA430G Ra:90
LENS: PM-1084B 36R
DRIVER: 9290 028 088 350mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

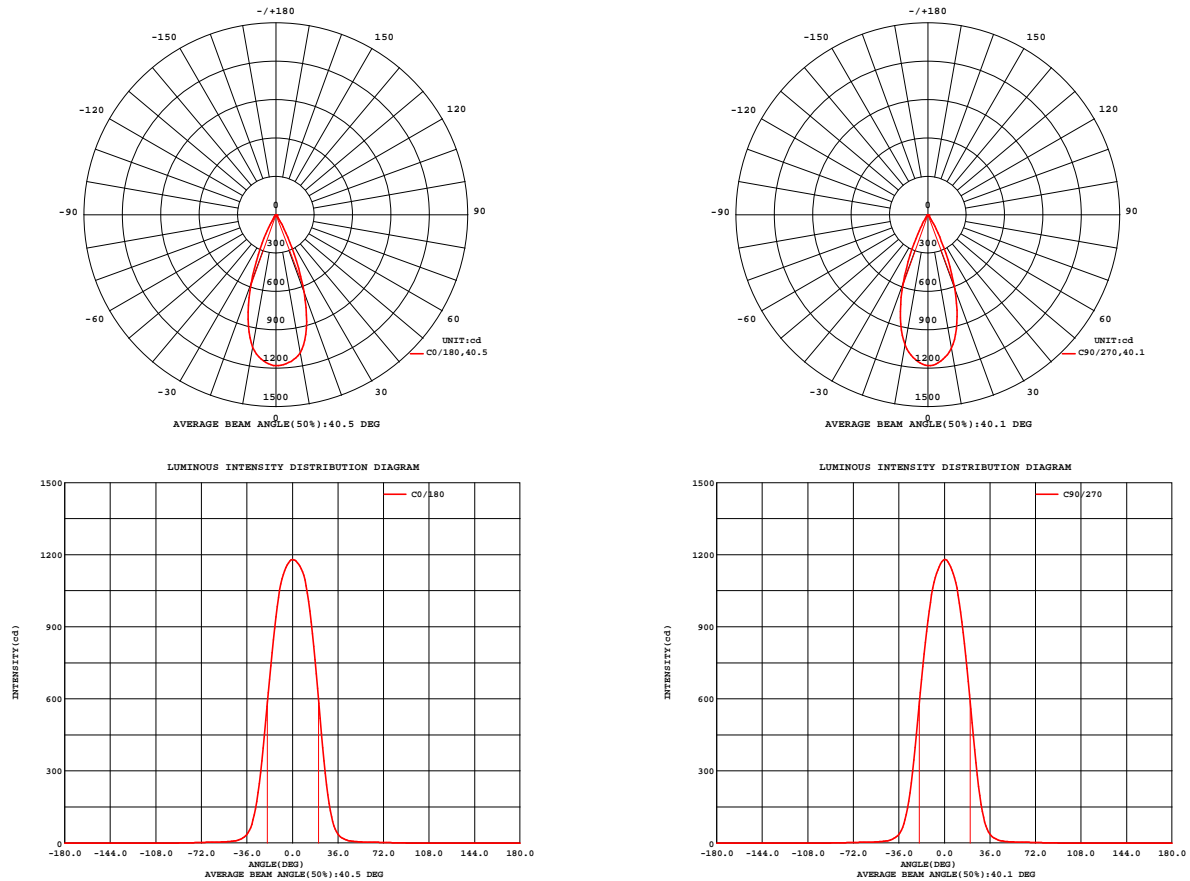


Fig. C0/C180

Fig. C90/C270

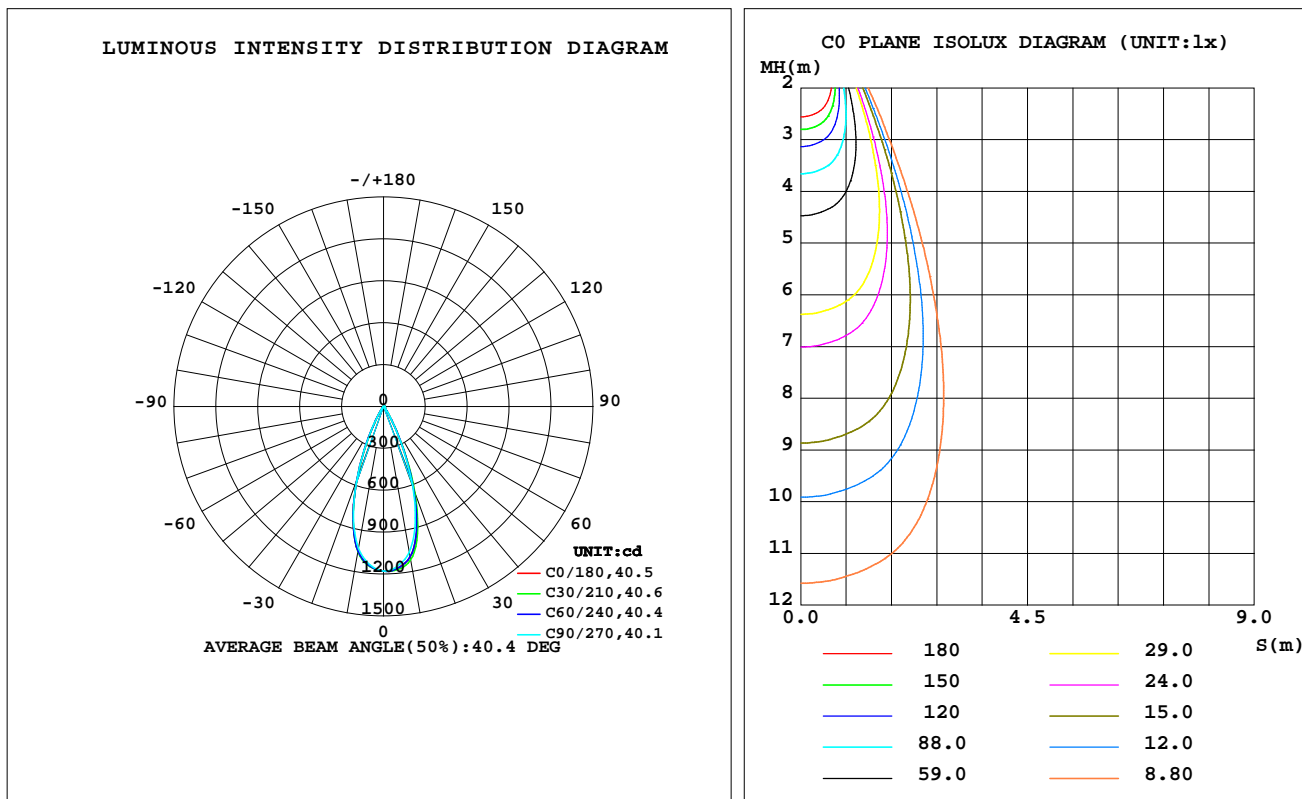
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30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.20V I:0.0400A P:8.3336W PF:0.9416 Freq:49.99Hz Lamp Flux:685.66x1 lm		
NAME: 2214.412-1-ACOT-96	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308111005
MFR.: RISE	SUR.: 0.000854865m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 64.71 lm/W			
MODEL	CREE	I _{max} (cd)	1180	S/MH(C0/180)	0.61
NOMINAL POWER(W)	8	LOR(%)	78.6	S/MH(C90/270)	0.61
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	539.25	η UP,DN(C0-180)	0.0,40.3
NOMINAL FLUX(lm)	685.66	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,38.3
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	220	η down(%)	78.6	CIBSE SHR MAX	0.65



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ZONAL FLUX DIAGRAM

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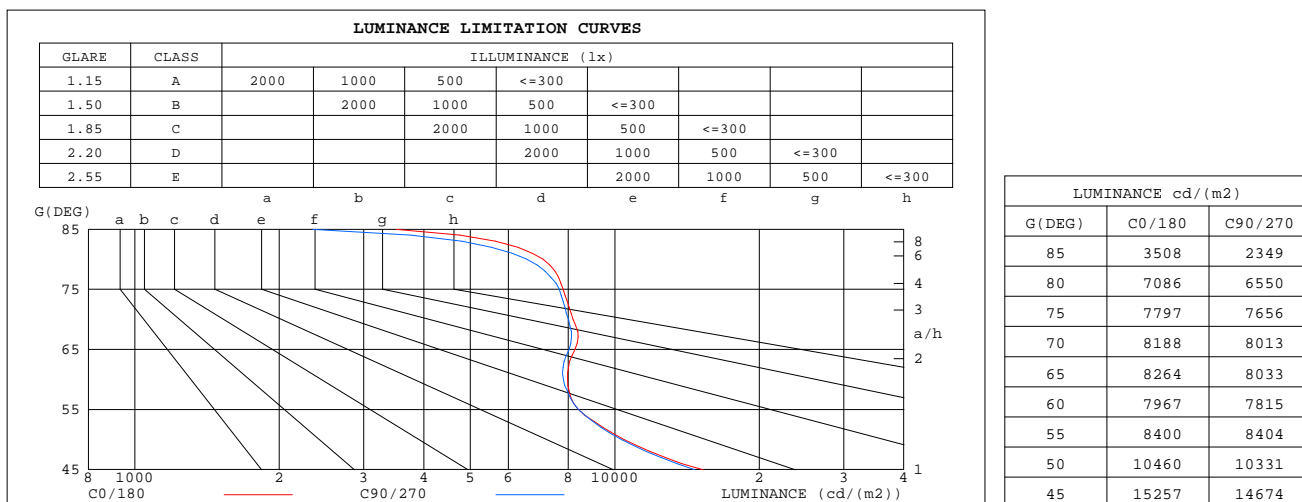
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1095	1105	1061	1044	1051	1055	1034	1060	0- 10	107.1	107.1	19.9,15.6
20	643.6	647.0	616.1	583.5	567.9	564.7	568.1	601.1	10- 20	235.6	342.7	63.6,50
30	133.7	138.6	131.7	123.6	116.3	113.9	117.8	129.4	20- 30	147.0	489.7	90.8,71.4
40	18.80	19.56	19.19	18.51	18.50	18.67	18.66	18.76	30- 40	32.97	522.7	96.9,76.2
50	5.748	5.762	5.676	5.734	5.740	5.793	5.838	5.792	40- 50	7.698	530.4	98.4,77.3
60	3.406	3.344	3.340	3.463	3.529	3.409	3.323	3.357	50- 60	3.843	534.2	99.1,77.9
70	2.394	2.356	2.342	2.389	2.389	2.327	2.291	2.340	60- 70	2.891	537.1	99.6,78.3
80	1.052	1.058	0.9722	1.033	0.9917	0.9988	0.9921	1.042	70- 80	1.780	538.9	99.9,78.6
90	0	0	0	0	0	0	0	0	80- 90	0.3802	539.3	100,78.6
100	0	0	0	0	0	0	0	0	90-100	0	539.3	100,78.6
110	0	0	0	0	0	0	0	0	100-110	0	539.3	100,78.6
120	0	0	0	0	0	0	0	0	110-120	0	539.3	100,78.6
130	0	0	0	0	0	0	0	0	120-130	0	539.3	100,78.6
140	0	0	0	0	0	0	0	0	130-140	0	539.3	100,78.6
150	0	0	0	0	0	0	0	0	140-150	0	539.3	100,78.6
160	0	0	0	0	0	0	0	0	150-160	0	539.3	100,78.6
170	0	0	0	0	0	0	0	0	160-170	0	539.3	100,78.6
180	0	0	0	0	0	0	0	0	170-180	0	539.3	100,78.6
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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LUMINANCE LIMITATION CURVES

Test:U:220.20V I:0.0400A P:8.3336W PF:0.9416 Freq:49.99Hz Lamp Flux:685.66x1 lm		
NAME: 2214.412-1-ACOT-96	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308111005
MFR.: RISE	SUR.: 0.000854865m2	Shielding Angle:



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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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Lamp Flux:685.66x1 lm

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TYPE:

WEIGHT:

SPEC.: 3000K

DIM.:

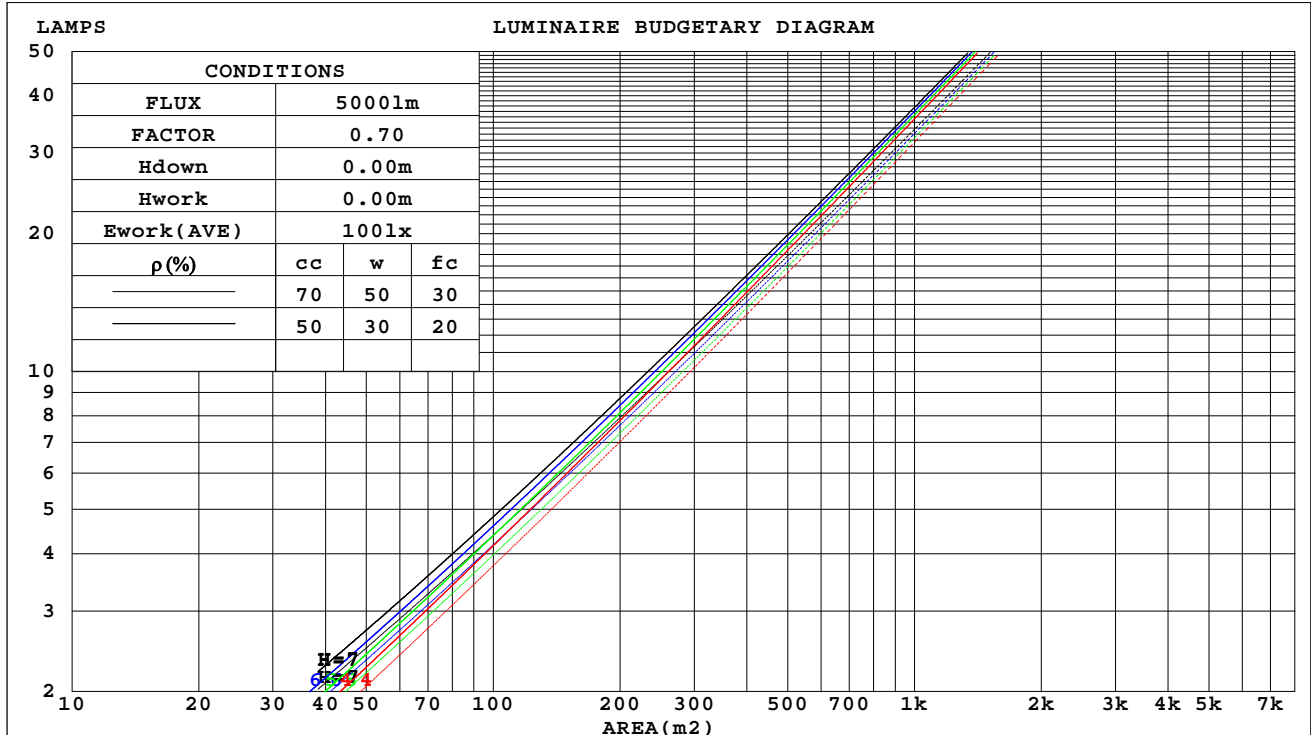
SERIAL No.: 2308111005

MFR.: RISE

SUR.: 0.000854865m2

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.: 2308111005
MFR.: RISE	SUR.: 0.000854865m2	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	.123	.070	.022	.118	.067	.021	.108	.062	.020	.099	.057	.018	.090	.052	.017	
2.0	.115	.063	.019	.111	.061	.019	.103	.057	.018	.095	.053	.017	.088	.050	.016	
3.0	.108	.058	.017	.105	.056	.017	.098	.053	.016	.091	.050	.015	.085	.047	.015	
4.0	.102	.053	.016	.099	.052	.015	.093	.049	.015	.088	.047	.014	.083	.045	.014	
5.0	.097	.049	.014	.094	.048	.014	.089	.046	.014	.084	.044	.013	.080	.043	.013	
6.0	.092	.046	.013	.090	.045	.013	.085	.044	.013	.081	.042	.012	.077	.041	.012	
7.0	.088	.043	.012	.086	.043	.012	.082	.041	.012	.078	.040	.012	.075	.039	.011	
8.0	.084	.041	.012	.082	.040	.011	.079	.039	.011	.075	.038	.011	.072	.037	.011	
9.0	.080	.039	.011	.079	.038	.011	.076	.037	.011	.073	.037	.010	.070	.036	.010	
10.0	.077	.037	.010	.076	.037	.010	.073	.036	.010	.070	.035	.010	.068	.034	.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	.150	.150	.150	.128	.128	.128	.087	.087	.087	.050	.050	.050	.016	.016	.016		
1.0	.133	.124	.115	.114	.106	.099	.078	.073	.069	.045	.042	.040	.014	.014	.013		
2.0	.120	.104	.091	.103	.090	.079	.071	.062	.055	.041	.036	.032	.013	.012	.010		
3.0	.109	.089	.073	.094	.077	.063	.064	.053	.044	.037	.031	.026	.012	.010	.009		
4.0	.100	.077	.060	.086	.067	.052	.059	.047	.037	.034	.027	.022	.011	.009	.007		
5.0	.093	.068	.050	.080	.059	.043	.055	.041	.031	.032	.024	.018	.010	.008	.006		
6.0	.086	.060	.042	.074	.052	.036	.051	.037	.026	.030	.021	.015	.010	.007	.005		
7.0	.081	.054	.035	.069	.047	.031	.048	.033	.022	.028	.019	.013	.009	.006	.004		
8.0	.076	.049	.031	.065	.042	.027	.045	.030	.019	.026	.018	.011	.008	.006	.004		
9.0	.072	.045	.026	.062	.039	.023	.043	.027	.016	.025	.016	.010	.008	.005	.003		
10.0	.068	.041	.023	.059	.036	.020	.041	.025	.014	.024	.015	.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.: 2308111005		
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	16.3	17.1	16.6	17.3	17.4	16.2	17.0	16.5	17.2	17.3
3H	16.7	17.4	16.9	17.6	17.8	16.6	17.3	16.8	17.5	17.7
4H	16.9	17.6	17.1	17.8	18.0	16.8	17.4	17.0	17.7	17.9
6H	17.0	17.7	17.3	17.9	18.1	16.9	17.5	17.2	17.8	18.0
8H	17.1	17.7	17.4	17.9	18.2	16.9	17.5	17.2	17.8	18.0
12H	17.1	17.6	17.4	17.9	18.2	16.9	17.5	17.2	17.8	18.0
4H 2H	16.3	17.0	16.6	17.2	17.4	16.2	16.9	16.5	17.1	17.3
3H	16.8	17.4	17.1	17.7	17.9	16.7	17.3	17.0	17.6	17.8
4H	17.1	17.7	17.5	17.9	18.3	17.0	17.5	17.3	17.8	18.1
6H	17.4	17.9	17.7	18.2	18.5	17.2	17.7	17.6	18.1	18.4
8H	17.4	17.9	17.8	18.2	18.6	17.3	17.7	17.7	18.1	18.5
12H	17.5	17.9	17.9	18.2	18.6	17.3	17.7	17.7	18.1	18.5
8H 4H	17.2	17.6	17.6	18.0	18.3	17.1	17.5	17.5	17.9	18.2
6H	17.5	17.9	18.0	18.3	18.7	17.4	17.8	17.8	18.2	18.6
8H	17.7	18.0	18.1	18.4	18.8	17.5	17.8	17.9	18.2	18.7
12H	17.7	18.0	18.1	18.4	18.9	17.5	17.8	18.0	18.2	18.7
12H 4H	17.1	17.6	17.6	17.9	18.3	17.0	17.5	17.5	17.8	18.2
6H	17.5	17.9	18.0	18.3	18.7	17.4	17.7	17.9	18.1	18.6
8H	17.7	18.0	18.1	18.4	18.9	17.5	17.8	18.0	18.2	18.7
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 1.4 / - 1.2					+ 1.5 / - 1.3				
1.5H	+ 2.8 / - 1.2					+ 2.9 / - 1.2				
2.0H	+ 1.0 / - 0.5					+ 1.0 / - 0.5				

CIE Pub.117, 685.7 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -1.3)
Area: 0.000854865 m2

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UTILIZATION FACTORS TABLE

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

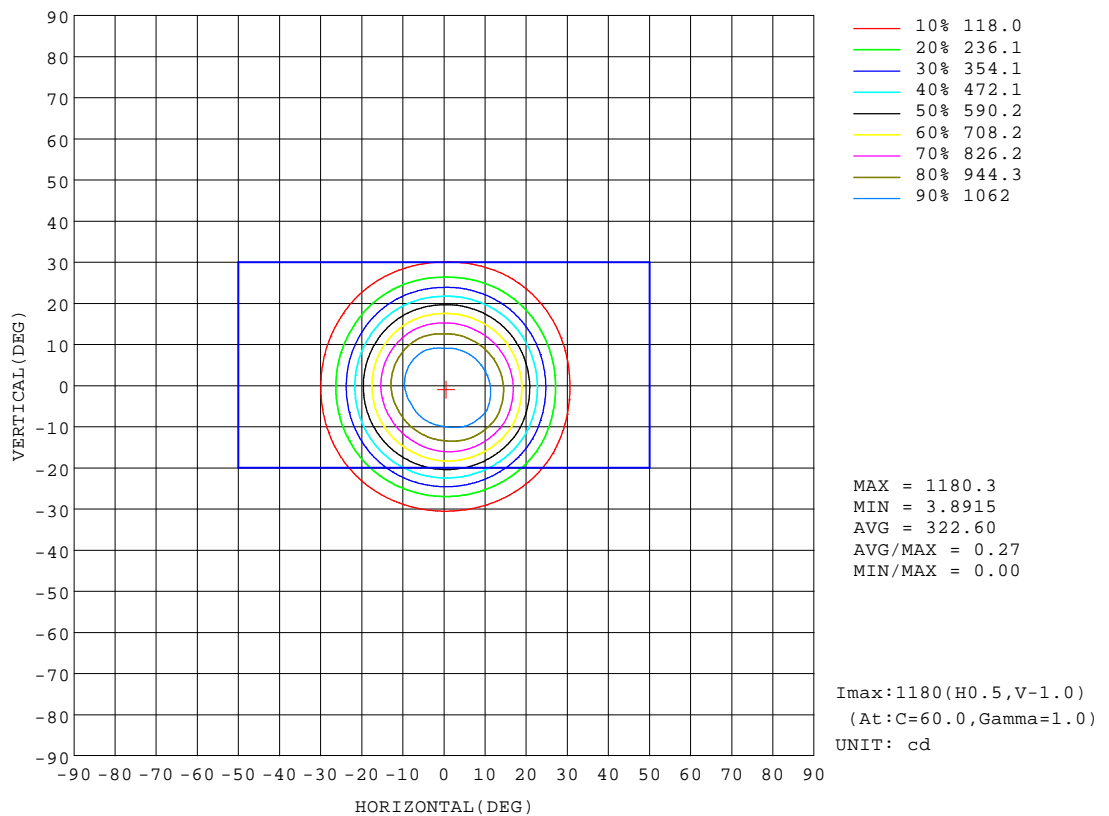
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	71	66	63	70	66	63	70	65	63	60
0.80	76	72	69	76	72	69	75	71	69	66
1.00	79	75	72	79	75	72	77	75	72	69
1.25	82	78	76	81	78	75	80	77	75	72
1.50	84	81	78	83	80	78	81	79	77	74
2.00	86	83	80	85	82	80	83	80	79	75
2.50	87	84	82	86	83	81	84	81	80	75
3.00	88	86	84	87	85	83	84	83	81	76
4.00	90	88	86	88	86	85	85	84	83	77
5.00	91	89	88	89	88	87	86	85	84	78
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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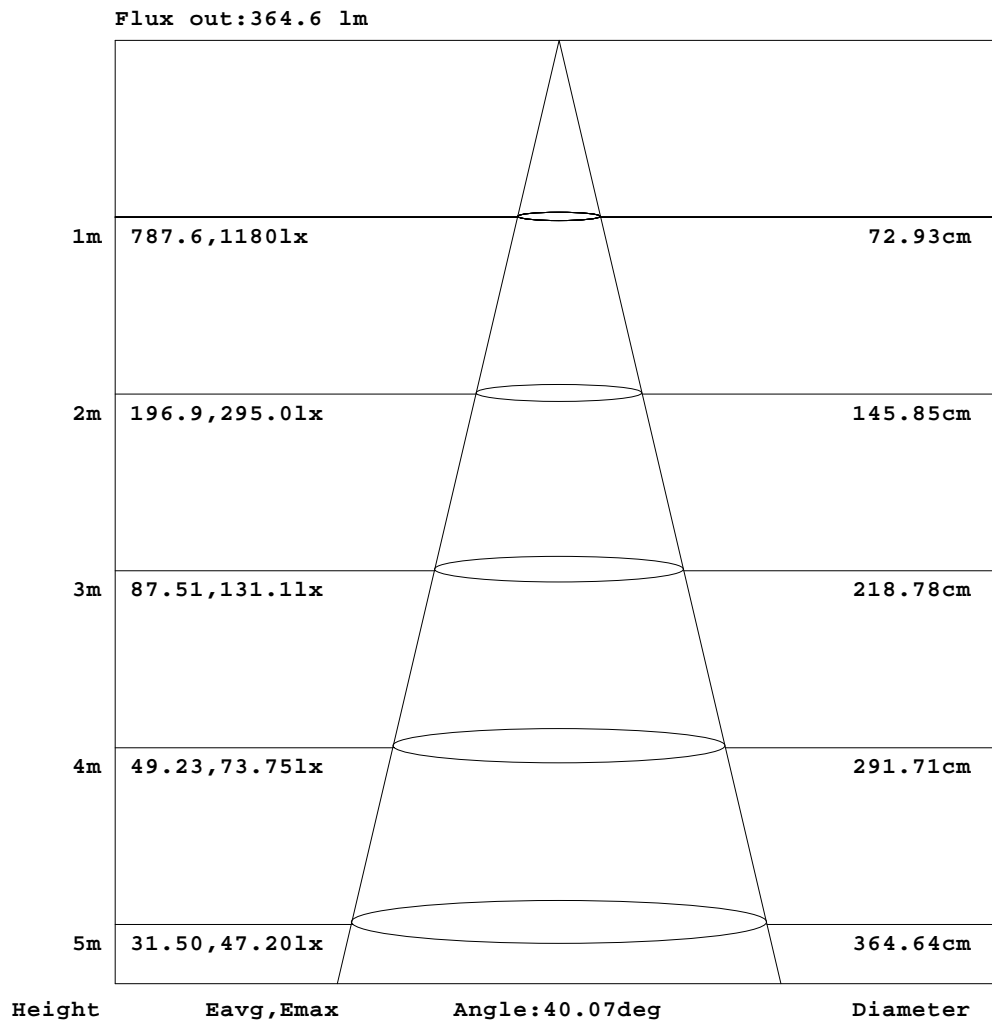


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AAI Figure

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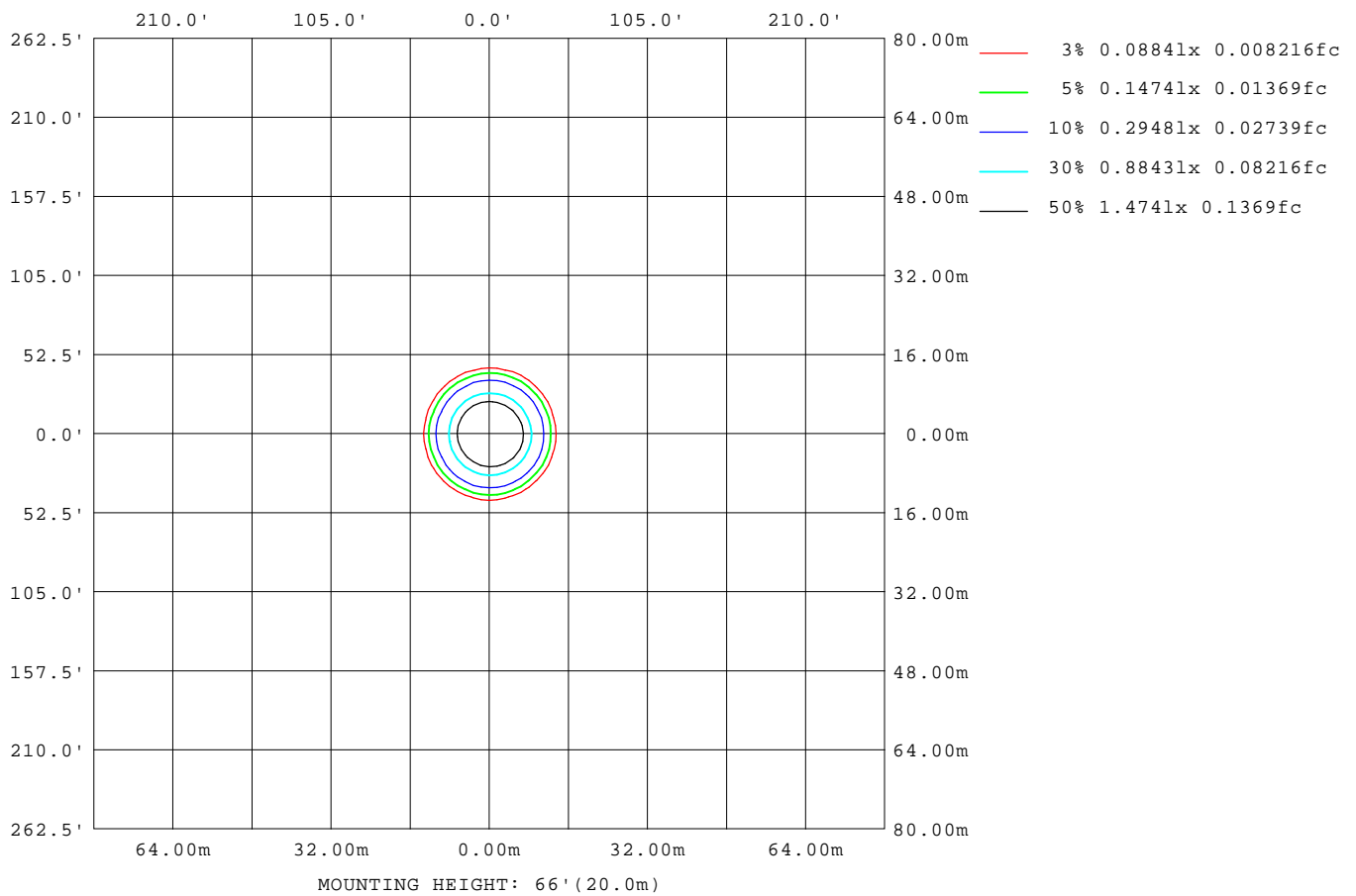
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:CXB1304-0000-000F0UA430G Ra:90
LENS: PM-1084B 36R
DRIVER: 9290 028 088 350mA
30minutes warm-up

LED Avg.L Report

Test:U:220.20V I:0.0400A P:8.3336W PF:0.9416 Freq:49.99Hz Lamp Flux:685.66x1 lm		
NAME: 2214.412-1-ACOT-96	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308111005
MFR.: RISE	SUR.: 0.000854865m2	Shielding Angle:

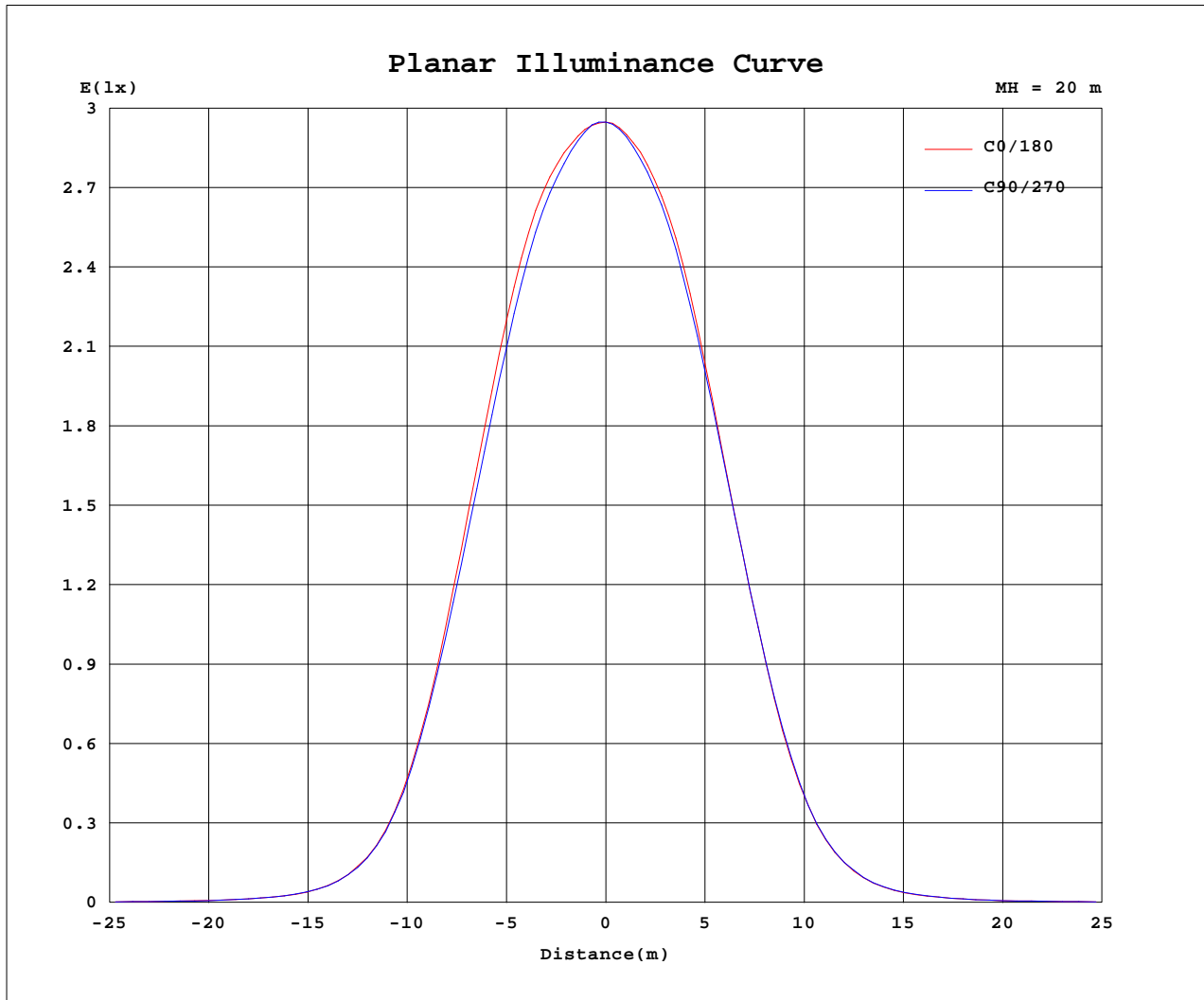
AvgL	cd/m2
L_0~180(65)av	8378
L_0~180(75)av	7725
L_0~180(85)av	2939
L_90~270(65)av	8023
L_90~270(75)av	7517
L_90~270(85)av	2713
L_45(65)av	8188
L_45(75)av	7614
L_45(85)av	3644

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2023-8-11

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:CXB1304-0000-000F0UA430G Ra:90
LENS: PM-1084B 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: 2023-8-11

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: CXB1304-0000-000F0UA430G Ra:90
 LENS: PM-1084B 36R
 DRIVER: 9290 028 088 350mA
 30minutes warm-up

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.20V I:0.0400A P:8.3336W PF:0.9416 Freq:49.99Hz Lamp Flux:685.66x1 lm		
NAME: 2214.412-1-ACOT-96	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308111005
MFR.: RISE	SUR.: 0.000854865m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	1179	1179	1179	1179	1179	1179	1179	1179	1179	1179	1179	1179						
5	1159	1171	1162	1149	1141	1138	1147	1150	1147	1136	1139	1146						
10	1095	1116	1094	1061	1050	1039	1051	1056	1054	1034	1050	1070						
15	920	942	914	876	846	837	845	843	844	835	847	880						
20	644	659	635	616	592	575	568	561	568	568	589	614						
25	341	353	343	333	318	301	292	285	293	296	311	324						
30	134	141	136	132	126	121	116	113	115	118	128	131						
35	46.9	50.0	48.2	46.6	45.4	44.1	42.7	42.0	42.8	43.3	46.0	46.4						
40	18.8	19.8	19.3	19.2	18.5	18.6	18.5	18.4	19.0	18.7	19.0	18.5						
45	9.22	9.10	9.17	8.87	8.75	8.91	8.90	8.96	9.05	9.01	8.95	8.91						
50	5.75	5.79	5.73	5.68	5.68	5.78	5.74	5.75	5.83	5.84	5.83	5.76						
55	4.12	4.14	4.14	4.12	4.17	4.25	4.21	4.14	4.13	4.15	4.15	4.14						
60	3.41	3.36	3.33	3.34	3.41	3.51	3.53	3.45	3.37	3.32	3.33	3.38						
65	2.99	2.93	2.88	2.90	2.98	3.06	3.07	3.00	2.94	2.90	2.91	2.97						
70	2.39	2.38	2.34	2.34	2.37	2.41	2.39	2.35	2.31	2.29	2.31	2.37						
75	1.73	1.72	1.70	1.69	1.71	1.71	1.69	1.65	1.63	1.63	1.66	1.70						
80	1.05	1.09	1.03	0.97	1.02	1.05	0.99	1.00	1.00	0.99	1.03	1.06						
85	0.26	0.31	0.26	0.17	0.22	0.22	0.18	0.24	0.26	0.23	0.31	0.31						
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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