

Luminaire Photograph



Light Output Ratio:	80.3%	
Luminaire Power:	8.287 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: CXB1304-0000-000F0UA430G Ra:90
LENS: PM-1084B 36R
DRIVER: 9290 028 088 350mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

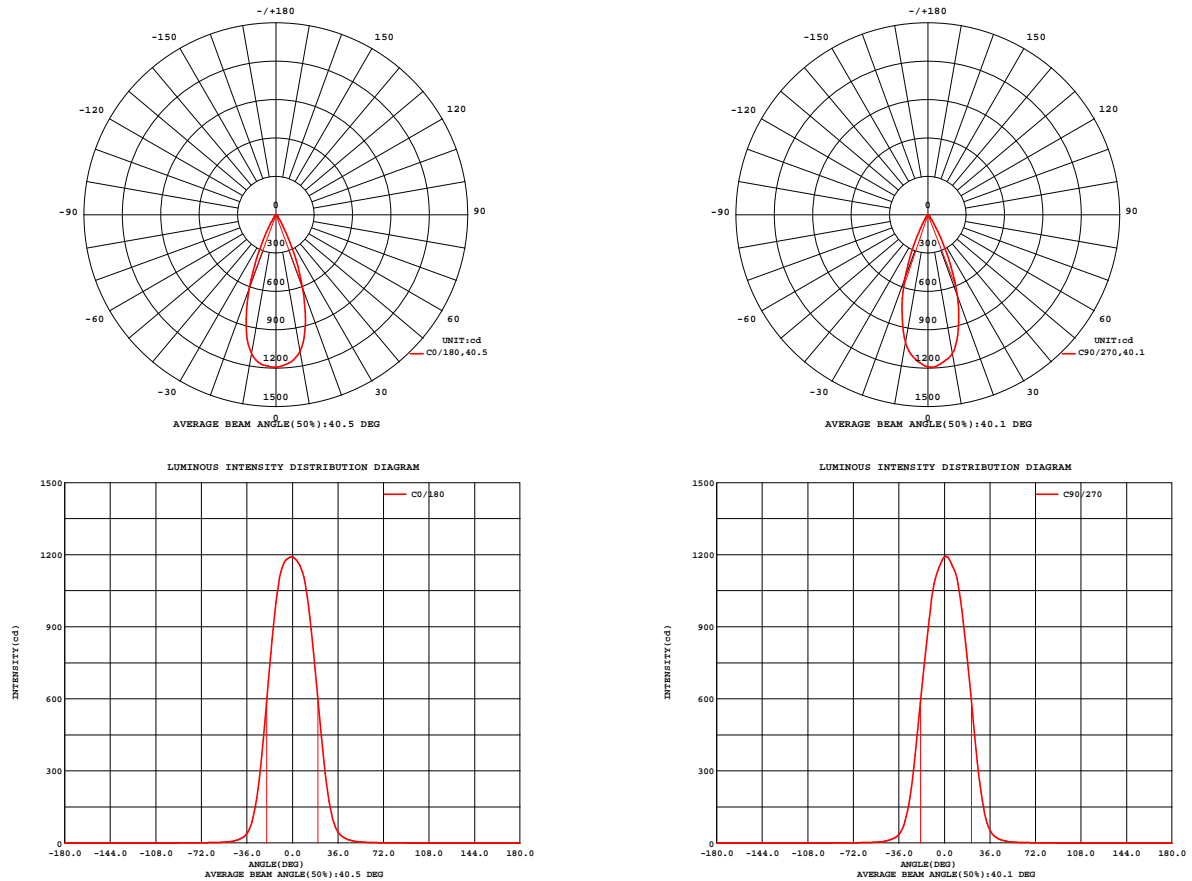


Fig. C0/C180

Fig. C90/C270

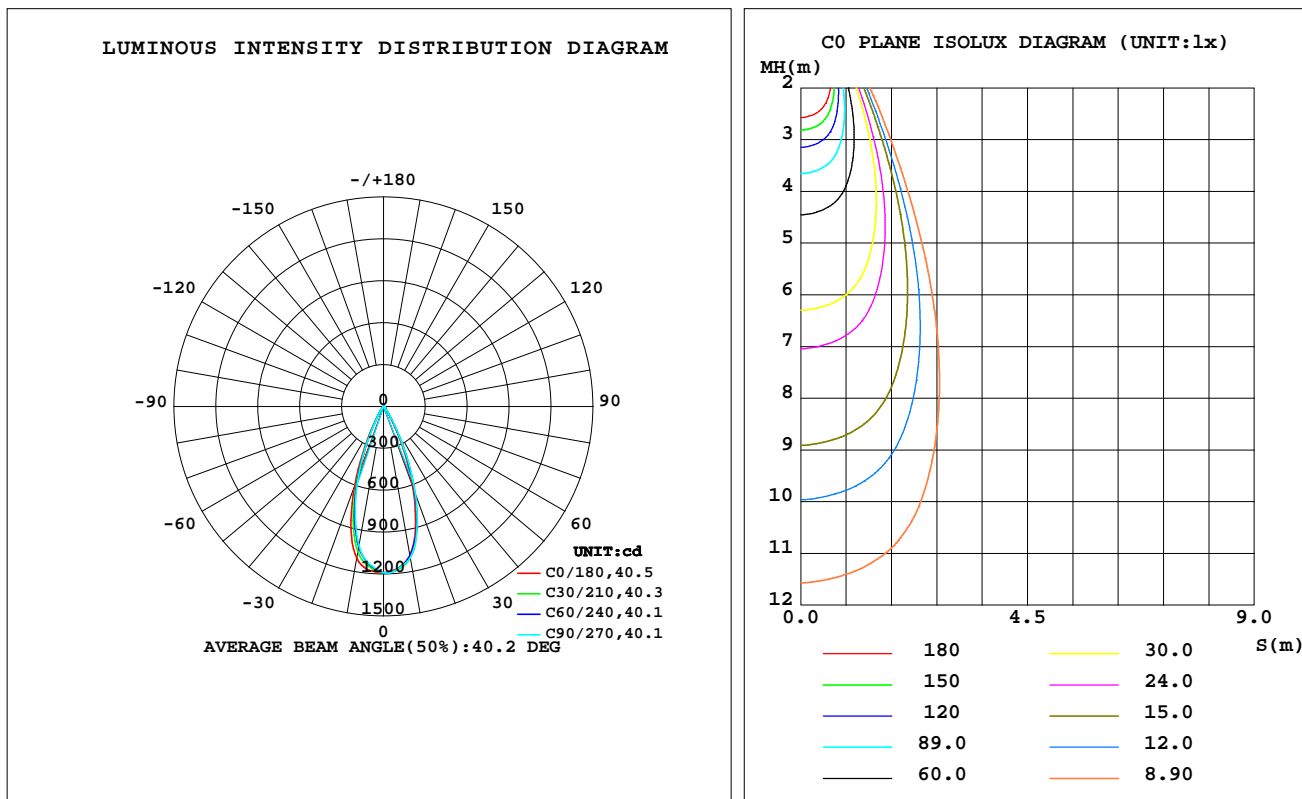
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LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.17V I:0.0398A P:8.2866W PF:0.9410 Freq:49.99Hz Lamp Flux:685.66x1 lm		
NAME: 2218.510-ACOT-96	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308040982
MFR.: RISE	SUR.: 0.001589625m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 66.45 lm/W			
MODEL	CREE	I _{max} (cd)	1194	S/MH(C0/180)	0.62
NOMINAL POWER(W)	8	LOR(%)	80.3	S/MH(C90/270)	0.59
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	550.64	η UP,DN(C0-180)	0.0,43.0
NOMINAL FLUX(lm)	685.66	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,37.4
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	220	η down(%)	80.3	CIBSE SHR MAX	0.65



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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	1084	1094	1101	1114	1104	1040	1014	1035	0- 10	108.1	108.1	19.6,15.8
20	612.9	657.2	672.7	662.8	607.9	545.1	526.6	555.0	10- 20	237.5	345.5	62.8,50.4
30	144.3	166.2	176.2	151.9	128.1	110.8	109.8	121.6	20- 30	152.1	497.6	90.4,72.6
40	25.41	27.79	27.10	23.32	20.61	19.52	19.49	22.06	30- 40	37.77	535.4	97.2,78.1
50	5.894	6.171	5.886	5.376	4.804	4.755	4.864	5.403	40- 50	9.305	544.7	98.9,79.4
60	2.253	2.260	2.230	2.159	2.077	2.035	2.048	2.181	50- 60	3.124	547.8	99.5,79.9
70	1.120	1.137	1.121	1.084	1.058	1.054	1.073	1.089	60- 70	1.538	549.4	99.8,80.1
80	0.6751	0.6651	0.6580	0.6458	0.6416	0.6433	0.6619	0.6667	70- 80	0.8948	550.3	99.9,80.3
90	0	0	0	0	0	0	0	0	80- 90	0.3691	550.6	100,80.3
100	0	0	0	0	0	0	0	0	90-100	0	550.6	100,80.3
110	0	0	0	0	0	0	0	0	100-110	0	550.6	100,80.3
120	0	0	0	0	0	0	0	0	110-120	0	550.6	100,80.3
130	0	0	0	0	0	0	0	0	120-130	0	550.6	100,80.3
140	0	0	0	0	0	0	0	0	130-140	0	550.6	100,80.3
150	0	0	0	0	0	0	0	0	140-150	0	550.6	100,80.3
160	0	0	0	0	0	0	0	0	150-160	0	550.6	100,80.3
170	0	0	0	0	0	0	0	0	160-170	0	550.6	100,80.3
180	0	0	0	0	0	0	0	0	170-180	0	550.6	100,80.3
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:220.17V I:0.0398A P:8.2866W PF:0.9410 Freq:49.99Hz
Lamp Flux:685.66x1 lm

NAME: 2218.510-ACOT-96

TYPE:

WEIGHT:

SPEC.: 3000K

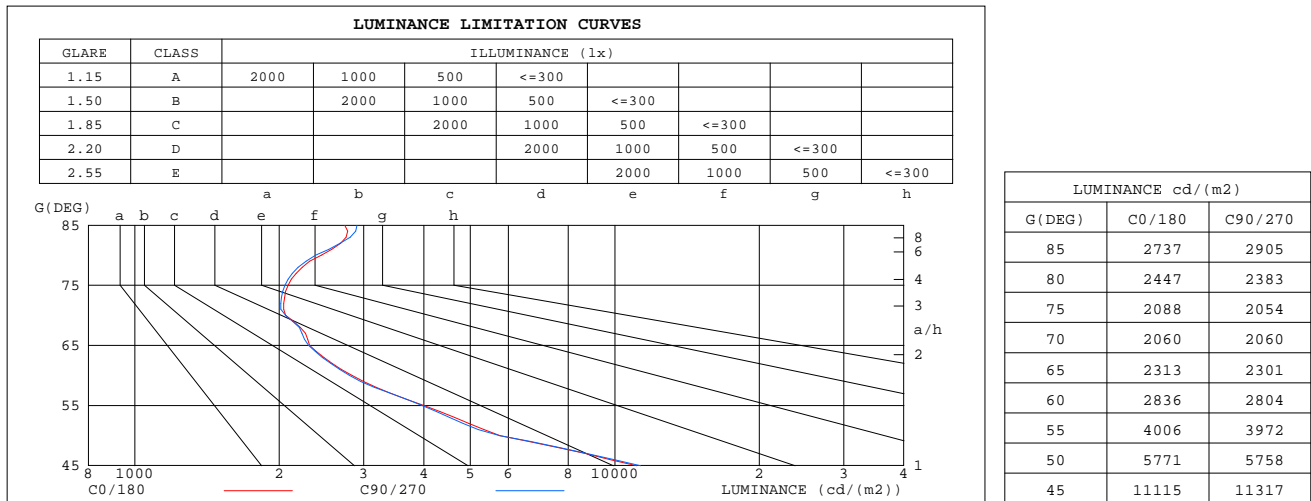
DIM.:

SERIAL No.: 2308040982

MFR.: RISE

SUR.: 0.001589625m2

Shielding Angle:



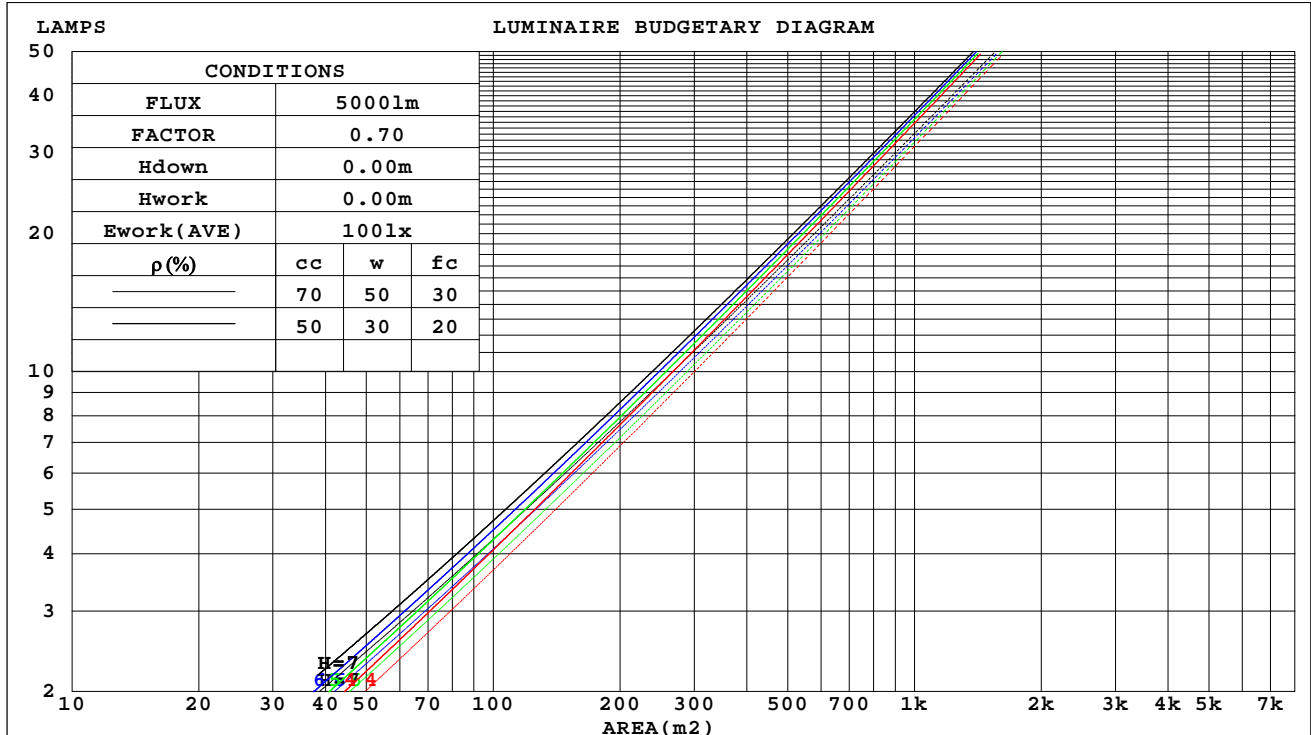
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.: 3000K	DIM.:	SERIAL No.: 2308040982
MFR.: RISE	SUR.: 0.001589625m2	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															



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WEC AND CCEC

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SPEC.: 3000K	DIM.:	SERIAL No.: 2308040982
MFR.: RISE	SUR.: 0.001589625m2	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	.125	.071	.022	.119	.068	.022	.109	.063	.020	.100	.058	.019	.092	.053	.017	
2.0	.117	.064	.020	.113	.062	.019	.104	.058	.018	.097	.054	.017	.089	.051	.016	
3.0	.110	.059	.018	.106	.057	.017	.099	.054	.016	.093	.051	.016	.087	.048	.015	
4.0	.104	.054	.016	.101	.053	.016	.095	.050	.015	.089	.048	.014	.084	.046	.014	
5.0	.099	.050	.015	.096	.049	.014	.091	.047	.014	.086	.045	.014	.082	.044	.013	
6.0	.094	.047	.013	.092	.046	.013	.087	.045	.013	.083	.043	.013	.079	.042	.012	
7.0	.090	.044	.013	.088	.044	.012	.084	.042	.012	.080	.041	.012	.077	.040	.012	
8.0	.086	.042	.012	.084	.041	.012	.081	.040	.011	.077	.039	.011	.074	.038	.011	
9.0	.082	.040	.011	.081	.039	.011	.078	.038	.011	.075	.037	.011	.072	.037	.011	
10.0	.079	.038	.011	.078	.037	.010	.075	.037	.010	.072	.036	.010	.070	.035	.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	.153	.153	.153	.131	.131	.131	.089	.089	.089	.051	.051	.051	.016	.016	.016		
1.0	.136	.126	.118	.117	.109	.101	.080	.075	.070	.046	.043	.041	.015	.014	.013		
2.0	.123	.107	.093	.105	.092	.080	.072	.063	.056	.042	.037	.033	.013	.012	.011		
3.0	.112	.091	.075	.096	.079	.065	.066	.055	.045	.038	.032	.027	.012	.010	.009		
4.0	.102	.079	.061	.088	.068	.053	.060	.048	.037	.035	.028	.022	.011	.009	.007		
5.0	.095	.069	.051	.081	.060	.044	.056	.042	.031	.032	.025	.018	.010	.008	.006		
6.0	.088	.062	.043	.076	.053	.037	.052	.037	.026	.030	.022	.016	.010	.007	.005		
7.0	.082	.055	.036	.071	.048	.032	.049	.034	.022	.028	.020	.013	.009	.006	.004		
8.0	.077	.050	.031	.067	.043	.027	.046	.030	.019	.027	.018	.011	.009	.006	.004		
9.0	.073	.046	.027	.063	.040	.024	.044	.028	.017	.025	.016	.010	.008	.005	.003		
10.0	.069	.042	.024	.060	.036	.021	.042	.026	.015	.024	.015	.009	.008	.005	.003		

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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

UGR(Unified Glare Rating) Table

Test:U:220.17V I:0.0398A P:8.2866W PF:0.9410 Freq:49.99Hz Lamp Flux:685.66x1 lm										
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SPEC.: 3000K					DIM.:			SERIAL No.: 2308040982		
MFR.: RISE					SUR.: 0.001589625m2			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	15.3	16.1	15.5	16.2	16.4	15.8	16.6	16.0	16.8	16.9
3H	15.2	16.0	15.5	16.1	16.3	15.7	16.5	16.0	16.7	16.8
4H	15.2	15.9	15.5	16.1	16.3	15.7	16.4	16.0	16.6	16.8
6H	15.2	15.8	15.5	16.1	16.3	15.7	16.3	16.0	16.6	16.8
8H	15.2	15.8	15.5	16.1	16.3	15.7	16.3	16.0	16.5	16.8
12H	15.2	15.8	15.5	16.0	16.3	15.7	16.3	16.0	16.5	16.8
4H 2H	15.1	15.8	15.4	16.0	16.2	15.6	16.3	15.9	16.5	16.7
3H	15.1	15.7	15.4	15.9	16.2	15.6	16.2	15.9	16.4	16.7
4H	15.1	15.6	15.4	15.9	16.2	15.5	16.1	15.9	16.4	16.7
6H	15.1	15.6	15.5	15.9	16.2	15.5	16.0	15.9	16.4	16.7
8H	15.1	15.6	15.5	15.9	16.3	15.6	16.0	15.9	16.4	16.7
12H	15.1	15.5	15.5	15.9	16.3	15.6	16.0	16.0	16.3	16.7
8H 4H	15.0	15.4	15.4	15.8	16.1	15.4	15.9	15.8	16.2	16.6
6H	15.0	15.4	15.5	15.8	16.2	15.5	15.8	15.9	16.2	16.6
8H	15.1	15.4	15.5	15.8	16.3	15.5	15.8	16.0	16.3	16.7
12H	15.1	15.4	15.6	15.9	16.3	15.6	15.9	16.0	16.3	16.8
12H 4H	14.9	15.3	15.3	15.7	16.1	15.4	15.8	15.8	16.2	16.6
6H	15.0	15.3	15.4	15.7	16.2	15.4	15.8	15.9	16.2	16.6
8H	15.1	15.4	15.5	15.8	16.3	15.5	15.8	16.0	16.2	16.7
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 2.4 / - 3.9					+ 2.8 / - 4.2				
1.5H	+ 4.2 / - 3.4					+ 4.8 / - 3.7				
2.0H	+ 3.4 / - 1.7					+ 3.5 / - 1.7				

CIE Pub.117, 685.7 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -1.3)
Area: 0.00158963 m2

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UTILIZATION FACTORS TABLE

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MFR.: RISE	SUR.: 0.001589625m2	Shielding Angle:

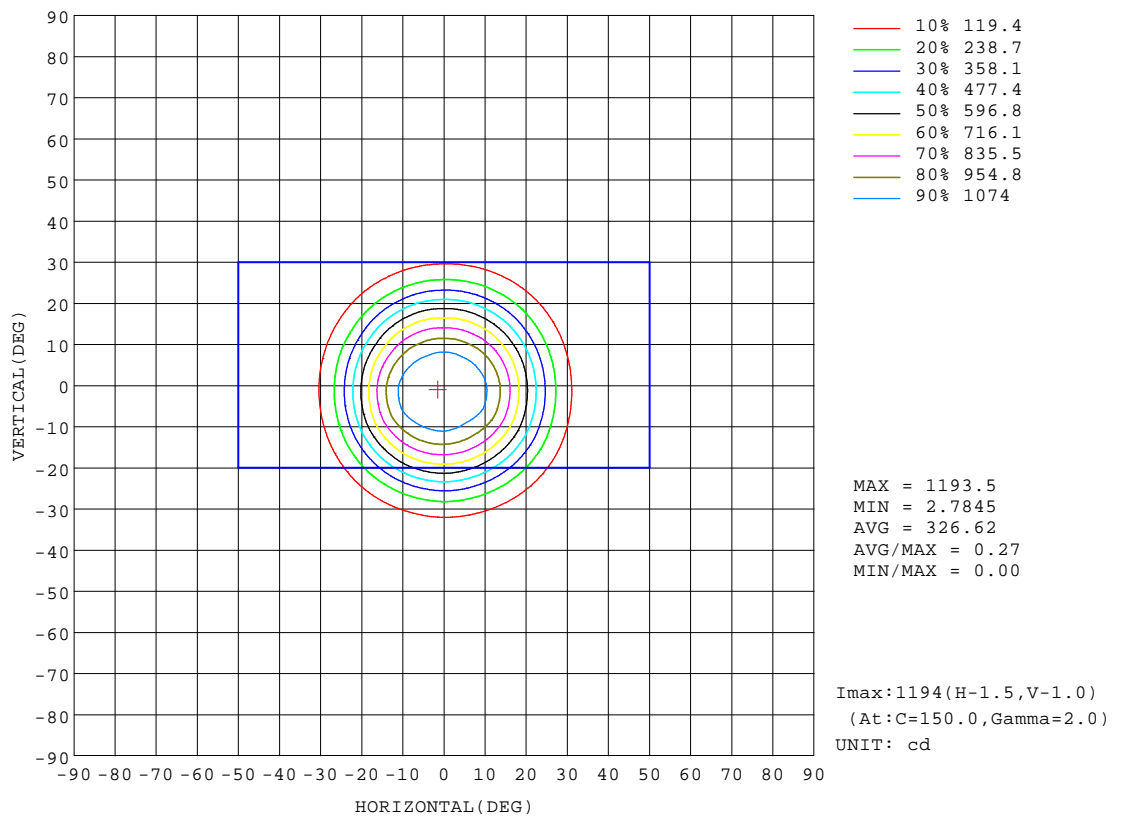
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	72	67	65	72	67	65	71	67	64	62
0.80	78	74	71	77	73	71	76	73	70	68
1.00	81	77	74	80	77	74	79	76	74	71
1.25	84	80	78	83	80	77	82	79	77	73
1.50	86	82	80	85	82	80	83	81	79	75
2.00	88	85	82	87	84	82	85	82	81	76
2.50	89	86	84	88	85	83	85	83	82	77
3.00	90	88	86	89	87	85	86	84	83	78
4.00	92	90	88	90	88	87	87	86	85	79
5.00	93	91	90	91	90	88	88	87	86	80
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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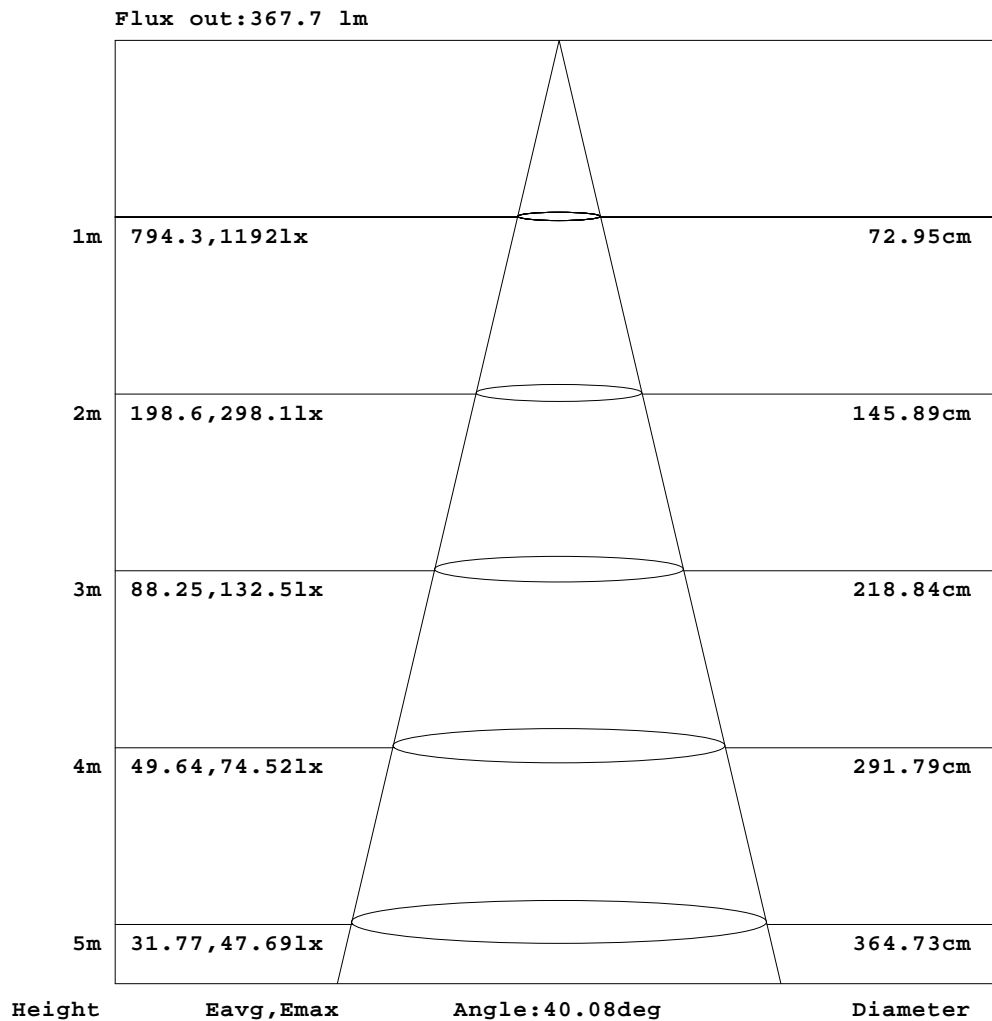


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AAI Figure

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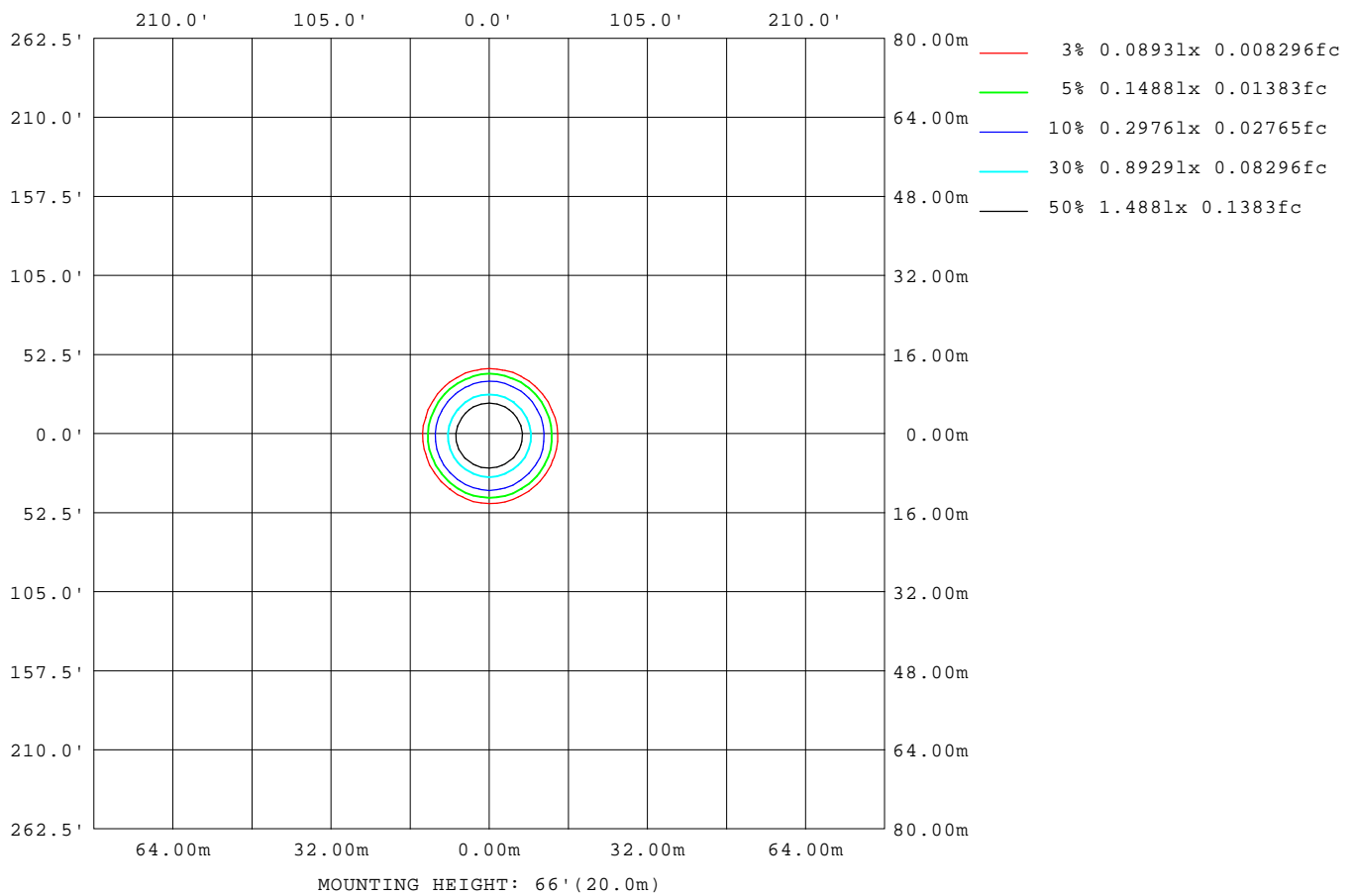
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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

LED Avg.L Report

Test:U:220.17V I:0.0398A P:8.2866W PF:0.9410 Freq:49.99Hz Lamp Flux:685.66x1 lm		
NAME: 2218.510-ACOT-96	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308040982
MFR.: RISE	SUR.: 0.001589625m2	Shielding Angle:

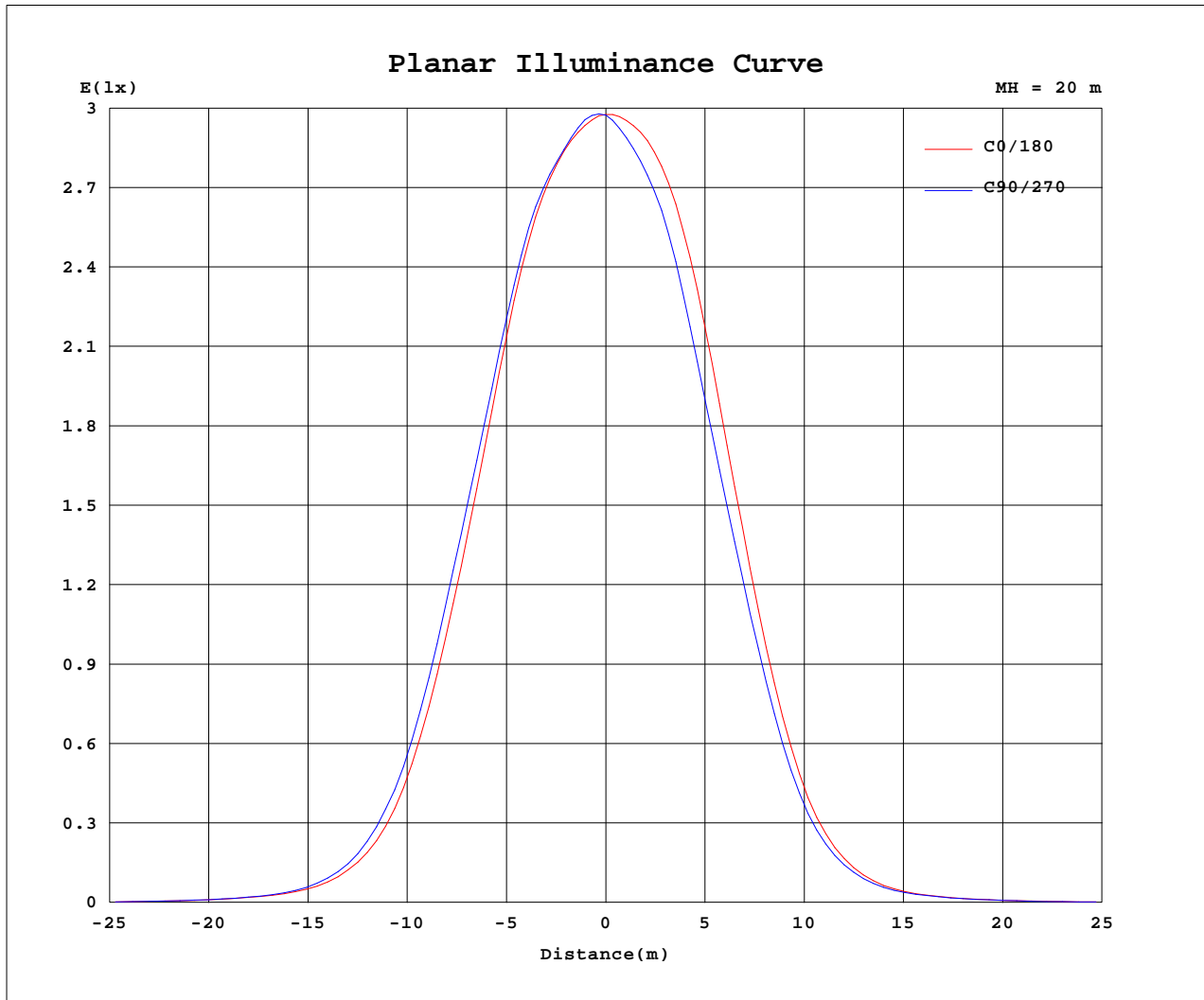
AvgL	cd/m2
L_0~180(65)av	2241
L_0~180(75)av	2030
L_0~180(85)av	2577
L_90~270(65)av	2256
L_90~270(75)av	2041
L_90~270(85)av	2560
L_45(65)av	2259
L_45(75)av	2026
L_45(85)av	2533

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: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: 2023-8-4

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

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.17V I:0.0398A P:8.2866W PF:0.9410 Freq:49.99Hz Lamp Flux:685.66x1 lm		
NAME: 2218.510-ACOT-96	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308040982
MFR.: RISE	SUR.: 0.001589625m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	1190	1190	1190	1190	1190	1190	1190	1190	1190	1190	1190	1190						
5	1164	1173	1169	1169	1173	1183	1177	1154	1138	1134	1136	1148						
10	1084	1102	1087	1101	1105	1123	1104	1058	1022	1014	1020	1050						
15	889	923	914	924	934	942	903	842	806	786	804	844						
20	613	654	661	673	670	655	608	556	535	527	540	570						
25	337	374	381	391	378	353	317	282	270	269	280	302						
30	144	164	169	176	161	143	128	113	108	110	116	127						
35	56.9	64.0	66.4	67.7	59.3	52.0	47.4	42.7	41.9	42.3	44.6	49.6						
40	25.4	27.6	28.0	27.1	24.3	22.3	20.6	19.5	19.6	19.5	21.0	23.1						
45	12.5	13.4	13.3	12.7	11.8	10.9	9.99	9.67	9.43	9.73	10.5	11.6						
50	5.89	6.20	6.14	5.89	5.57	5.18	4.80	4.75	4.76	4.86	5.21	5.60						
55	3.65	3.75	3.71	3.62	3.48	3.30	3.17	3.09	3.09	3.14	3.33	3.54						
60	2.25	2.26	2.26	2.23	2.19	2.13	2.08	2.05	2.03	2.05	2.14	2.22						
65	1.55	1.57	1.55	1.55	1.53	1.51	1.46	1.43	1.45	1.48	1.53	1.56						
70	1.12	1.14	1.13	1.12	1.10	1.07	1.06	1.05	1.06	1.07	1.08	1.10						
75	0.86	0.86	0.85	0.85	0.83	0.82	0.81	0.81	0.82	0.83	0.84	0.85						
80	0.68	0.67	0.66	0.66	0.65	0.64	0.64	0.64	0.65	0.66	0.66	0.67						
85	0.38	0.40	0.40	0.40	0.38	0.36	0.34	0.30	0.30	0.31	0.32	0.35						
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
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