

Luminaire Photograph



Light Output Ratio:	78.0%	
Luminaire Power:	8.299 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: 2023-8-4

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-1084C 50R
DRIVER: 9290 028 088 350mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

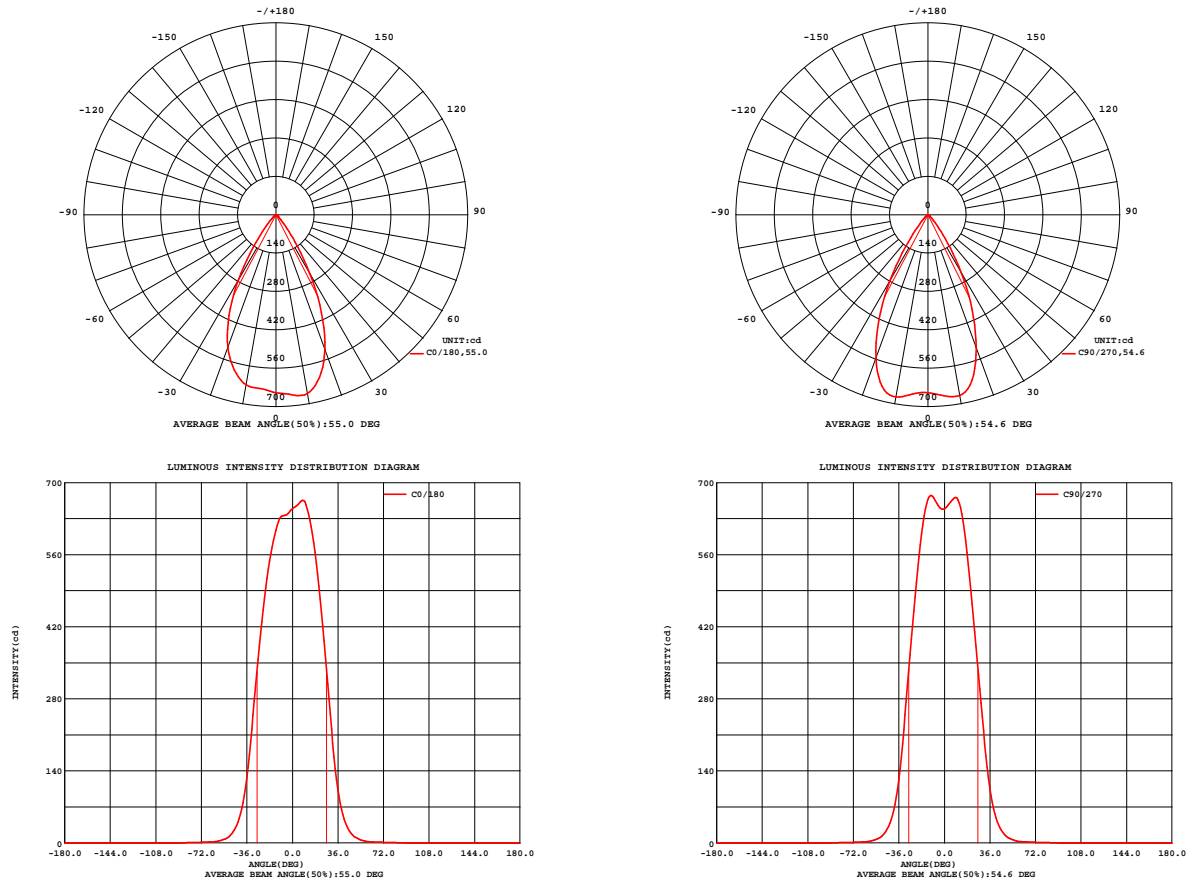


Fig. C0/C180

Fig. C90/C270

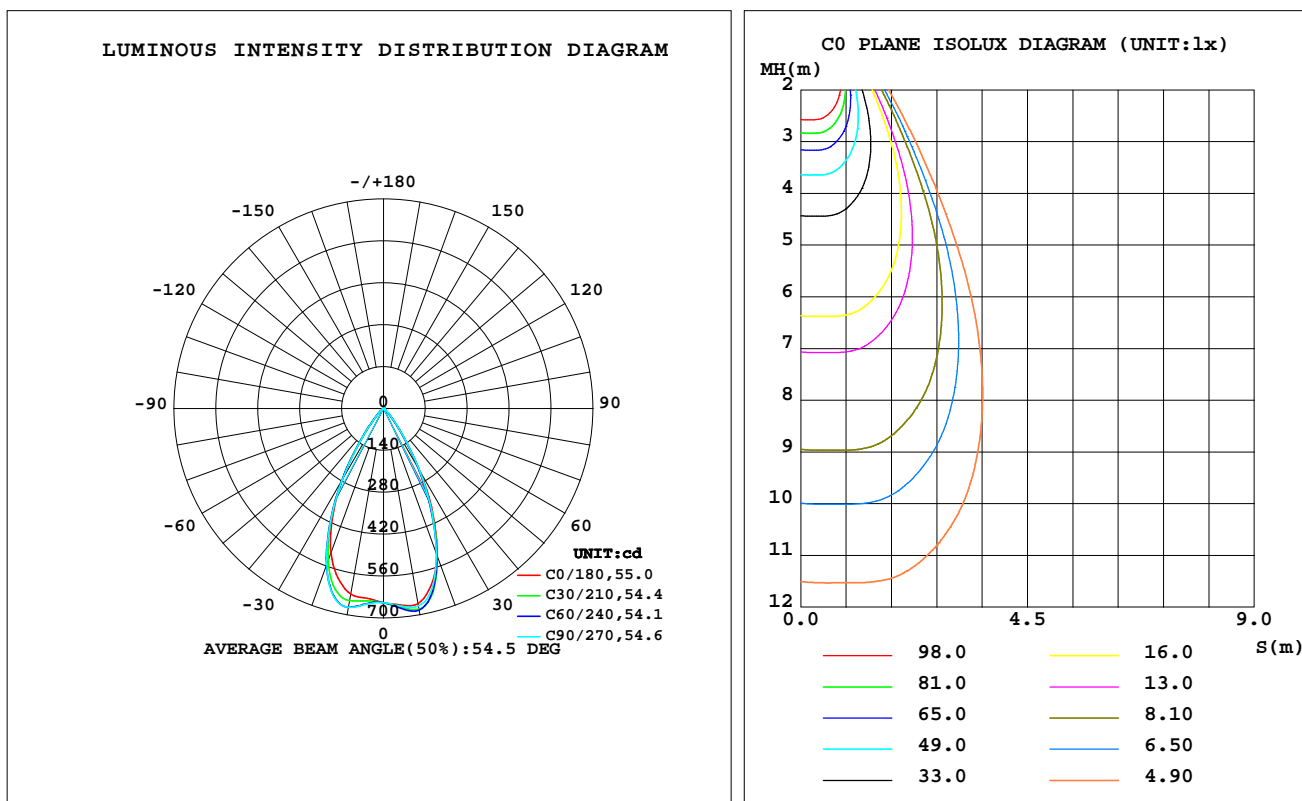
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LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.17V I:0.0399A P:8.2987W PF:0.9409 Freq:49.99Hz Lamp Flux:685.66x1 lm		
NAME: 2218.510-ACOT-96	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308040983
MFR.: RISE	SUR.: 0.001589625m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 64.45 lm/W
MODEL	CREE	I _{max} (cd)	685.3	S/MH(C0/180)	0.84	
NOMINAL POWER(W)	8	LOR(%)	78.0	S/MH(C90/270)	0.84	
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	534.88	η UP,DN(C0-180)	0.0,37.9	
NOMINAL FLUX(lm)	685.66	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,40.1	
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.75	
TEST VOLTAGE(V)	220	η down(%)	78.0	CIBSE SHR MAX	0.85	



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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	662.1	682.8	670.0	638.3	629.9	663.0	674.9	662.5	0- 10	62.76	62.76	11.7,9.15
20	522.4	522.4	515.9	503.5	514.1	549.6	555.9	533.4	10- 20	171.0	233.8	43.7,34.1
30	249.6	239.5	244.4	261.1	276.2	281.9	278.0	272.2	20- 30	181.3	415.1	77.6,60.5
40	55.02	54.48	56.58	60.90	66.20	66.15	63.01	59.93	30- 40	88.48	503.5	94.1,73.4
50	10.61	10.75	11.03	11.56	12.21	12.15	11.80	11.35	40- 50	22.31	525.8	98.3,76.7
60	2.583	2.635	2.751	2.928	3.022	2.941	2.813	2.629	50- 60	5.494	531.3	99.3,77.5
70	1.311	1.367	1.425	1.465	1.464	1.412	1.347	1.309	60- 70	1.947	533.3	99.7,77.8
80	0.7847	0.8278	0.8764	0.8832	0.8593	0.8266	0.7990	0.7768	70- 80	1.137	534.4	99.9,77.9
90	0	0	0	0	0	0	0	0	80- 90	0.4601	534.9	100,78
100	0	0	0	0	0	0	0	0	90-100	0	534.9	100,78
110	0	0	0	0	0	0	0	0	100-110	0	534.9	100,78
120	0	0	0	0	0	0	0	0	110-120	0	534.9	100,78
130	0	0	0	0	0	0	0	0	120-130	0	534.9	100,78
140	0	0	0	0	0	0	0	0	130-140	0	534.9	100,78
150	0	0	0	0	0	0	0	0	140-150	0	534.9	100,78
160	0	0	0	0	0	0	0	0	150-160	0	534.9	100,78
170	0	0	0	0	0	0	0	0	160-170	0	534.9	100,78
180	0	0	0	0	0	0	0	0	170-180	0	534.9	100,78
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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Temperature:25.3℃
Operators:zoe
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30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:220.17V I:0.0399A P:8.2987W PF:0.9409 Freq:49.99Hz
Lamp Flux:685.66x1 lm

NAME: 2218.510-ACOT-96

TYPE:

WEIGHT:

SPEC.: 3000K

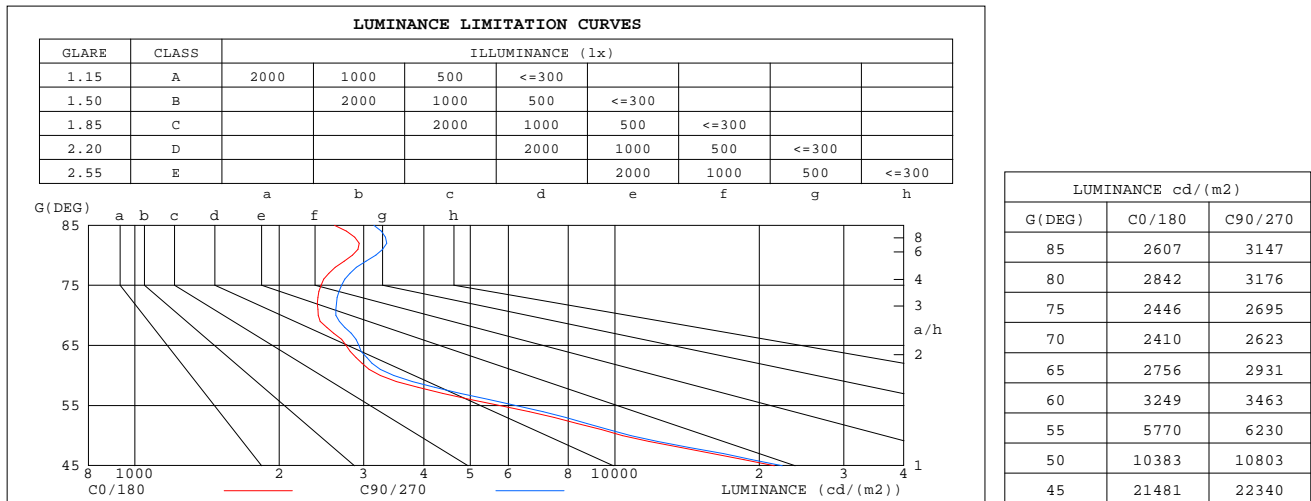
DIM.:

SERIAL No.: 2308040983

MFR.: RISE

SUR.: 0.001589625m2

Shielding Angle:



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

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NAME: 2218.510-ACOT-96

TYPE:

WEIGHT:

SPEC.: 3000K

DIM.:

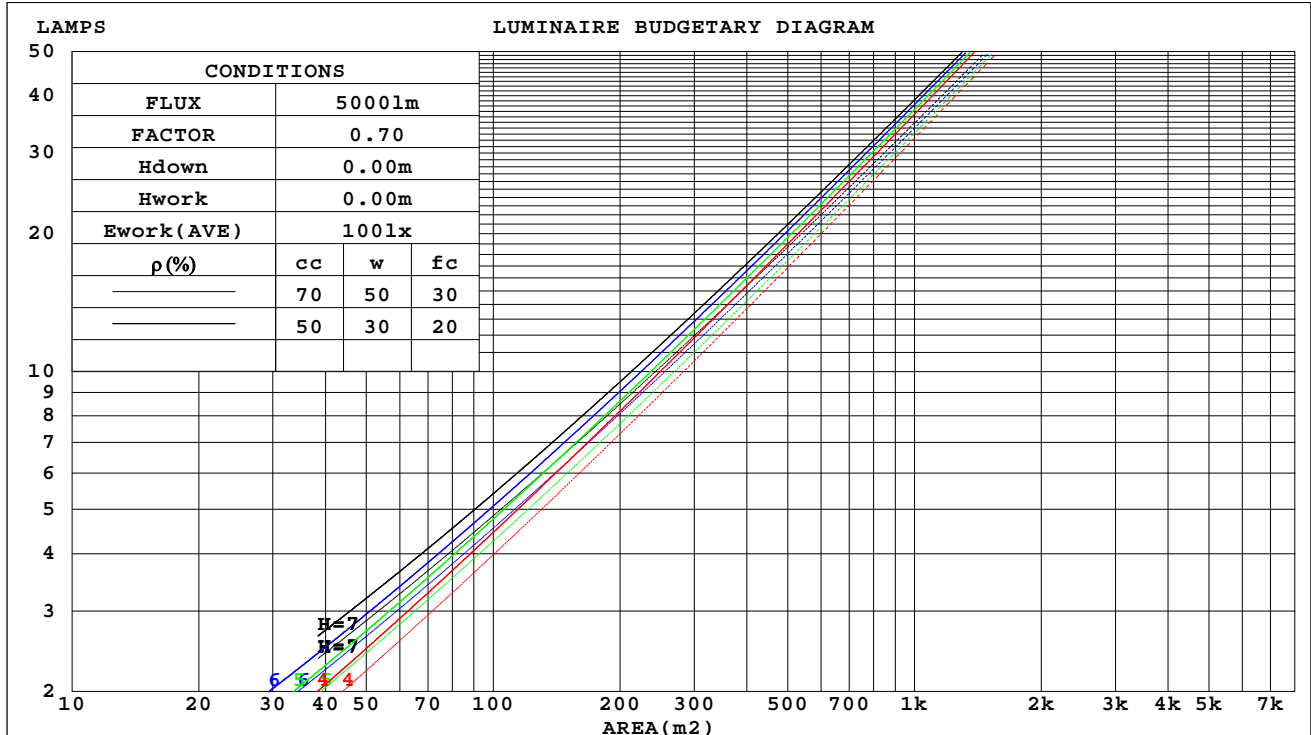
SERIAL No.: 2308040983

MFR.: RISE

SUR.: 0.001589625m2

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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NAME: 2218.510-ACOT-96	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308040983
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	.135	.077	.024	.130	.074	.024	.120	.069	.022	.111	.064	.021	.103	.060	.019		
2.0	.129	.071	.022	.124	.069	.021	.116	.065	.020	.109	.061	.019	.102	.057	.018		
3.0	.122	.065	.020	.119	.064	.019	.112	.060	.018	.105	.058	.018	.099	.055	.017		
4.0	.116	.060	.018	.113	.059	.018	.107	.057	.017	.102	.055	.016	.096	.052	.016		
5.0	.111	.057	.016	.108	.055	.016	.103	.054	.016	.098	.052	.015	.093	.050	.015		
6.0	.106	.053	.015	.103	.052	.015	.099	.051	.015	.094	.049	.014	.090	.048	.014		
7.0	.101	.050	.014	.099	.049	.014	.095	.048	.014	.091	.047	.014	.088	.045	.013		
8.0	.097	.047	.013	.095	.047	.013	.091	.046	.013	.088	.045	.013	.085	.043	.013		
9.0	.093	.045	.013	.091	.044	.012	.088	.043	.012	.085	.043	.012	.082	.042	.012		
10.0	.089	.043	.012	.088	.042	.012	.085	.042	.012	.082	.041	.012	.079	.040	.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	.149	.149	.149	.127	.127	.127	.087	.087	.087	.050	.050	.050	.016	.016	.016		
1.0	.133	.123	.113	.114	.105	.097	.078	.072	.067	.045	.042	.039	.014	.013	.013		
2.0	.121	.103	.088	.104	.089	.076	.071	.062	.053	.041	.036	.031	.013	.012	.010		
3.0	.111	.089	.070	.095	.076	.061	.066	.053	.043	.038	.031	.025	.012	.010	.008		
4.0	.103	.077	.057	.088	.067	.050	.061	.046	.035	.035	.027	.021	.011	.009	.007		
5.0	.096	.068	.047	.083	.059	.041	.057	.041	.029	.033	.024	.017	.011	.008	.006		
6.0	.090	.061	.039	.078	.053	.034	.054	.037	.024	.031	.022	.014	.010	.007	.005		
7.0	.085	.055	.033	.073	.047	.029	.051	.033	.021	.029	.020	.012	.010	.006	.004		
8.0	.081	.050	.029	.070	.043	.025	.048	.030	.018	.028	.018	.011	.009	.006	.003		
9.0	.077	.046	.025	.066	.040	.022	.046	.028	.015	.027	.016	.009	.009	.005	.003		
10.0	.073	.042	.022	.063	.037	.019	.044	.026	.013	.026	.015	.008	.008	.005	.003		

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30minutes warm-up

UGR(Unified Glare Rating) Table

Test:U:220.17V I:0.0399A P:8.2987W PF:0.9409 Freq:49.99Hz Lamp Flux:685.66x1 lm											
NAME: 2218.510-ACOT-96					TYPE:			WEIGHT:			
SPEC.: 3000K					DIM.:			SERIAL No.: 2308040983			
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	2H	19.7	20.6	19.9	20.8	20.9	19.8	20.7	20.0	20.8	21.0
	3H	19.6	20.4	19.8	20.6	20.8	19.6	20.5	19.9	20.7	20.9
	4H	19.5	20.3	19.8	20.5	20.7	19.6	20.4	19.9	20.6	20.8
	6H	19.4	20.2	19.7	20.4	20.7	19.5	20.3	19.8	20.5	20.8
	8H	19.4	20.1	19.7	20.4	20.6	19.5	20.2	19.8	20.5	20.7
	12H	19.4	20.1	19.7	20.3	20.6	19.5	20.1	19.8	20.4	20.7
4H	2H	19.5	20.3	19.7	20.5	20.7	19.5	20.3	19.8	20.5	20.8
	3H	19.3	20.0	19.7	20.3	20.6	19.4	20.1	19.7	20.4	20.6
	4H	19.3	19.9	19.6	20.2	20.5	19.4	20.0	19.7	20.3	20.6
	6H	19.2	19.8	19.6	20.1	20.5	19.3	19.9	19.7	20.2	20.5
	8H	19.2	19.7	19.6	20.1	20.4	19.3	19.8	19.7	20.2	20.5
	12H	19.2	19.6	19.6	20.0	20.4	19.3	19.7	19.7	20.1	20.5
8H	4H	19.2	19.7	19.6	20.0	20.4	19.2	19.7	19.6	20.1	20.5
	6H	19.1	19.5	19.6	19.9	20.4	19.2	19.6	19.6	20.0	20.4
	8H	19.1	19.5	19.6	19.9	20.3	19.2	19.6	19.7	20.0	20.4
	12H	19.1	19.4	19.6	19.9	20.3	19.2	19.5	19.7	20.0	20.4
12H	4H	19.1	19.6	19.5	19.9	20.3	19.2	19.7	19.6	20.0	20.4
	6H	19.1	19.5	19.5	19.9	20.3	19.2	19.5	19.6	20.0	20.4
	8H	19.1	19.4	19.6	19.8	20.3	19.2	19.5	19.6	19.9	20.4
Variations with the observer position at spacings(CIE Pub.117):											
S = 1.0H	+ 3.3 / - 7.0					+ 3.3 / - 6.7					
1.5H	+ 5.4 / - 6.2					+ 5.3 / - 6.0					
2.0H	+ 5.0 / - 3.3					+ 5.1 / - 3.2					

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:

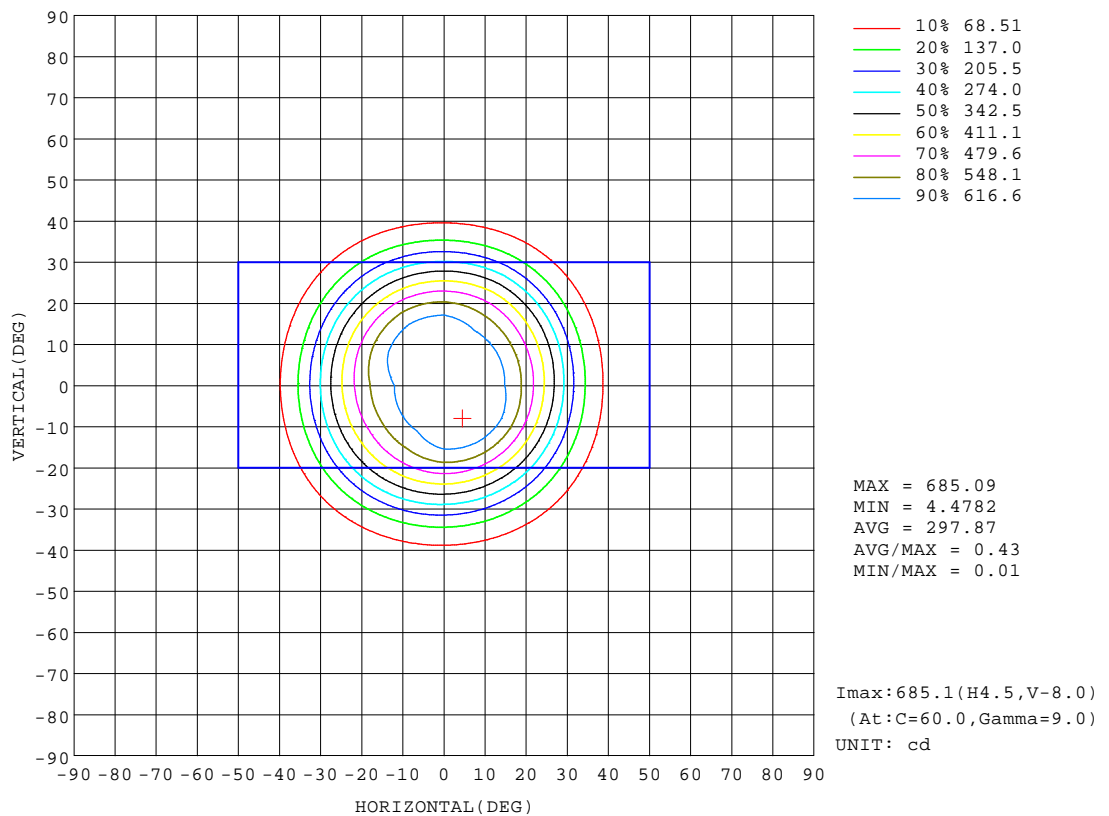
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	69	64	61	68	64	61	68	63	61	58
0.80	74	70	67	74	70	67	73	69	67	64
1.00	78	73	71	77	73	70	76	73	70	67
1.25	81	77	74	80	76	74	78	75	73	70
1.50	83	79	77	82	79	76	80	78	75	72
2.00	85	82	79	84	81	79	82	79	77	73
2.50	86	83	81	85	82	80	82	80	79	74
3.00	87	85	83	86	84	82	83	82	80	75
4.00	89	87	85	87	85	84	84	83	82	76
5.00	90	88	87	88	87	85	85	84	83	77
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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MFR.: RISE	SUR.: 0.001589625m2	Shielding Angle:

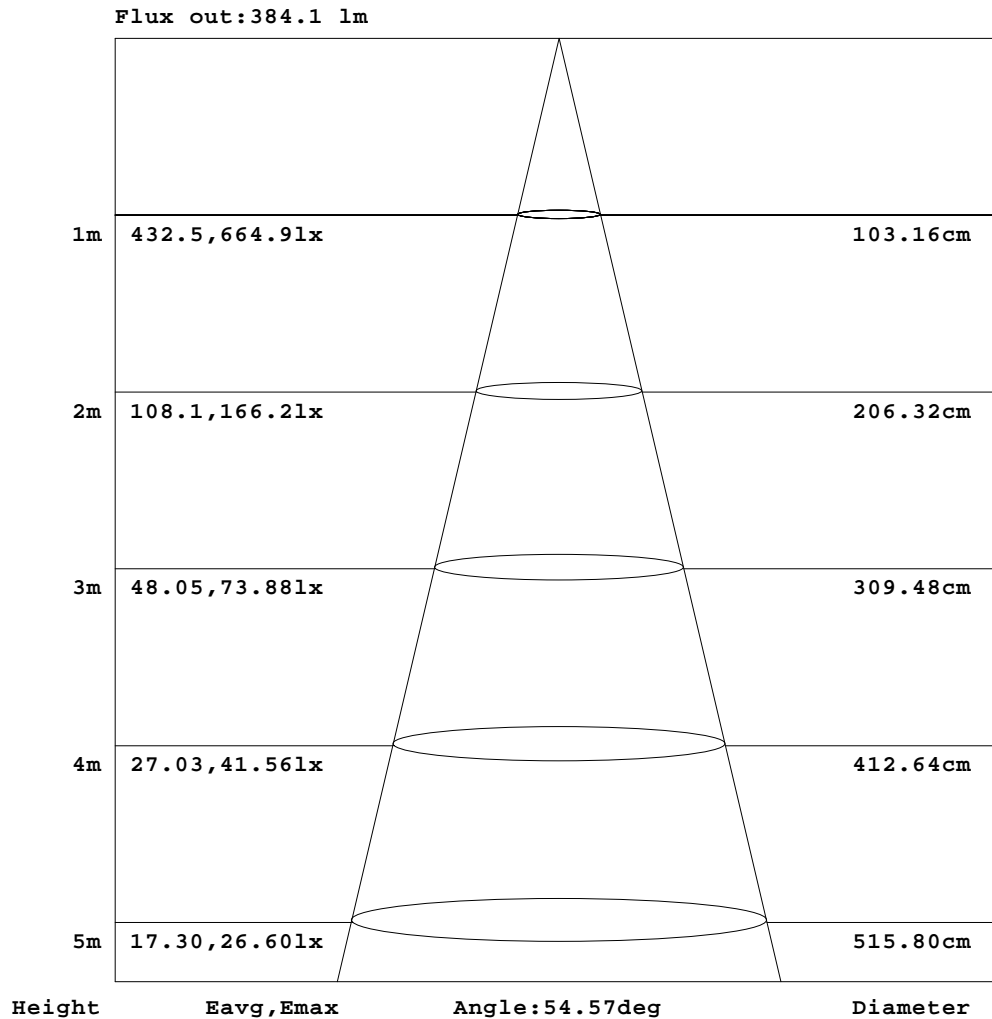


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AAI Figure

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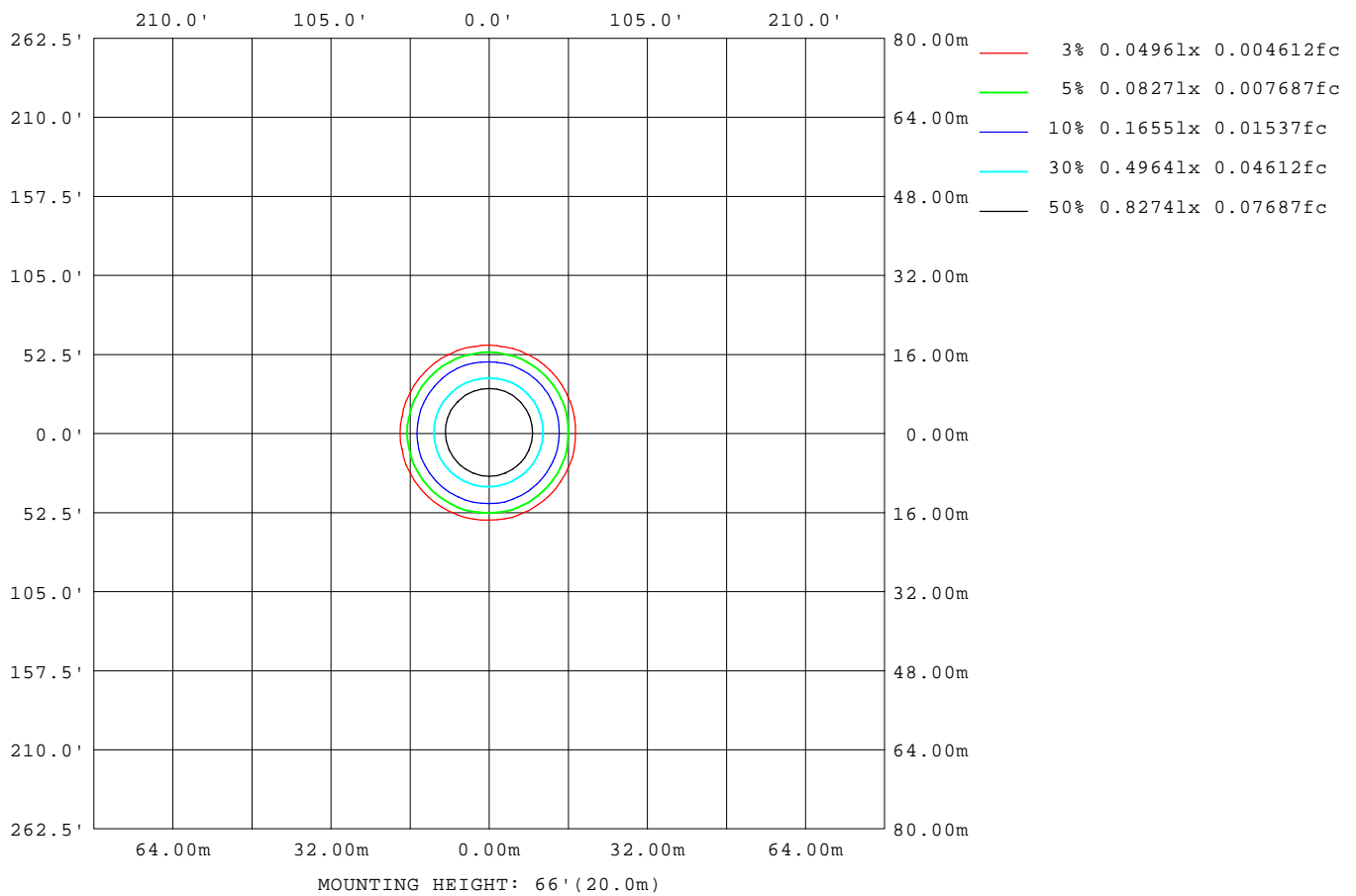
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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Test 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-1084C 50R
DRIVER:9290 028 088 350mA
30minutes warm-up

LED Avg.L Report

Test:U:220.17V I:0.0399A P:8.2987W PF:0.9409 Freq:49.99Hz Lamp Flux:685.66x1 lm		
NAME: 2218.510-ACOT-96	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308040983
MFR.: RISE	SUR.: 0.001589625m2	Shielding Angle:

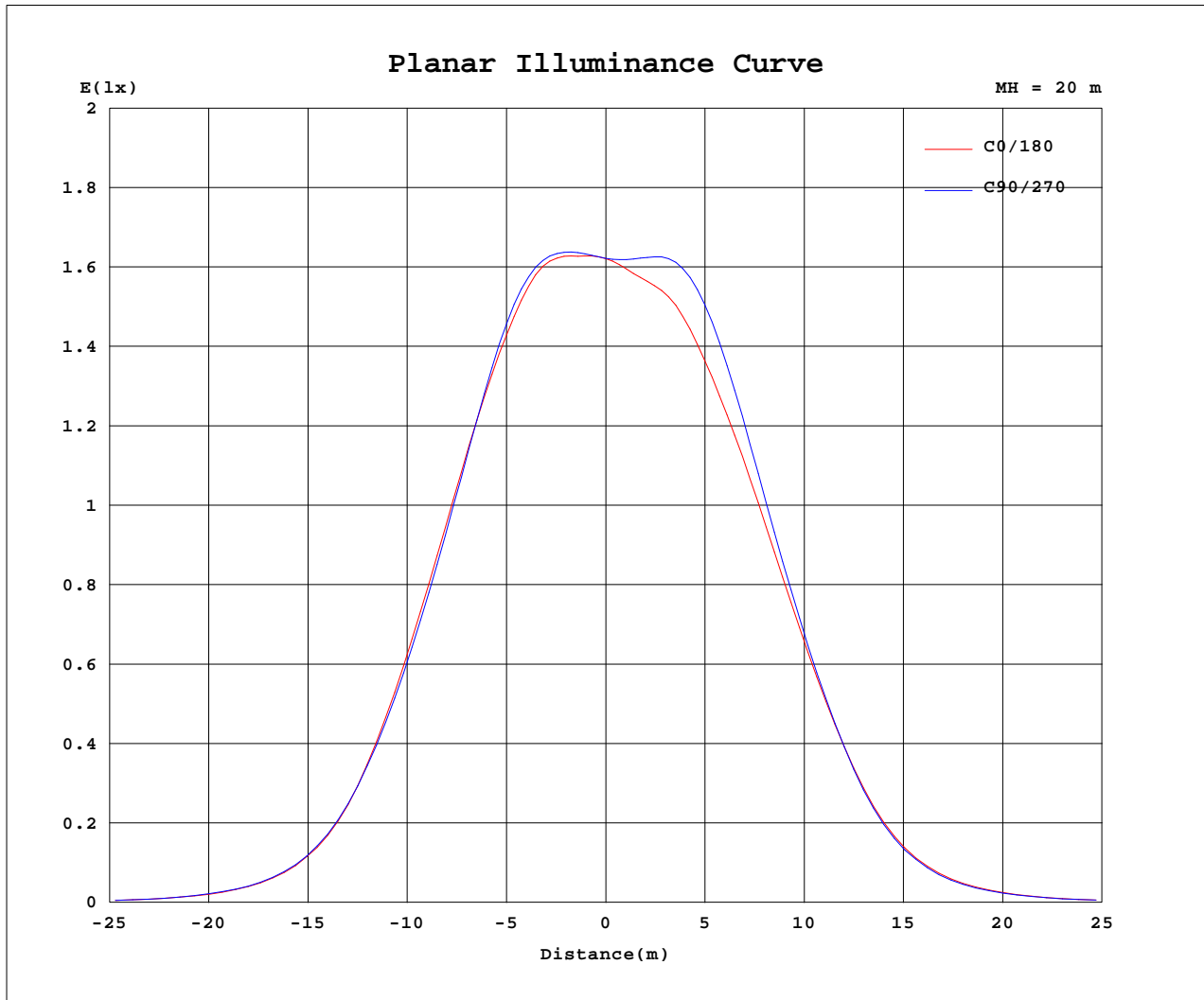
AvgL	cd/m2
L_0~180(65)av	2870
L_0~180(75)av	2571
L_0~180(85)av	3159
L_90~270(65)av	2869
L_90~270(75)av	2598
L_90~270(85)av	3148
L_45(65)av	2869
L_45(75)av	2582
L_45(85)av	3132

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-1084C 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: 2023-8-4

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-1084C 50R
 DRIVER: 9290 028 088 350mA
 30minutes warm-up

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.17V I:0.0399A P:8.2987W PF:0.9409 Freq:49.99Hz Lamp Flux:685.66x1 lm		
NAME: 2218.510-ACOT-96	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308040983
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	649	649	649	649	649	649	649	649	649	649	649	649						
5	659	666	670	662	649	639	637	645	654	656	653	655						
10	662	681	684	670	641	635	630	652	674	675	662	663						
15	614	637	633	624	590	586	587	625	647	648	619	619						
20	522	524	521	516	505	502	514	541	558	556	540	527						
25	394	385	378	382	387	394	406	420	425	423	423	408						
30	250	241	238	244	255	267	276	282	278	279	265							
35	124	121	121	126	132	141	148	149	150	144	141	132						
40	55.0	54.2	54.7	56.6	58.8	63.0	66.2	66.1	66.2	63.0	61.7	58.2						
45	24.1	24.1	24.3	25.1	25.8	27.4	28.7	28.5	28.5	27.4	26.8	25.4						
50	10.6	10.7	10.8	11.0	11.3	11.9	12.2	12.1	12.2	11.8	11.6	11.1						
55	5.26	5.27	5.41	5.68	5.93	6.20	6.26	6.14	6.18	6.09	5.90	5.54						
60	2.58	2.63	2.64	2.75	2.86	3.00	3.02	2.94	2.94	2.81	2.66	2.60						
65	1.85	1.90	1.92	1.97	2.00	2.02	2.00	1.98	1.92	1.89	1.85	1.84						
70	1.31	1.35	1.38	1.43	1.45	1.48	1.46	1.43	1.39	1.35	1.31	1.30						
75	1.01	1.04	1.07	1.11	1.12	1.13	1.11	1.08	1.06	1.03	1.00	1.00						
80	0.78	0.81	0.84	0.88	0.88	0.88	0.86	0.84	0.82	0.80	0.78	0.77						
85	0.36	0.37	0.39	0.44	0.47	0.50	0.51	0.49	0.47	0.44	0.40	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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