

Luminaire Photograph



Light Output Ratio:	77.5%	
Luminaire Power:	7.577 W	
SHR Nominal:	0.75	Calculated using the TM5
SHR Maximum:	0.80	fine grid method.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: zoe
Test Date: 2023-6-3

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: KEDH009S0350NR12A1 350mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

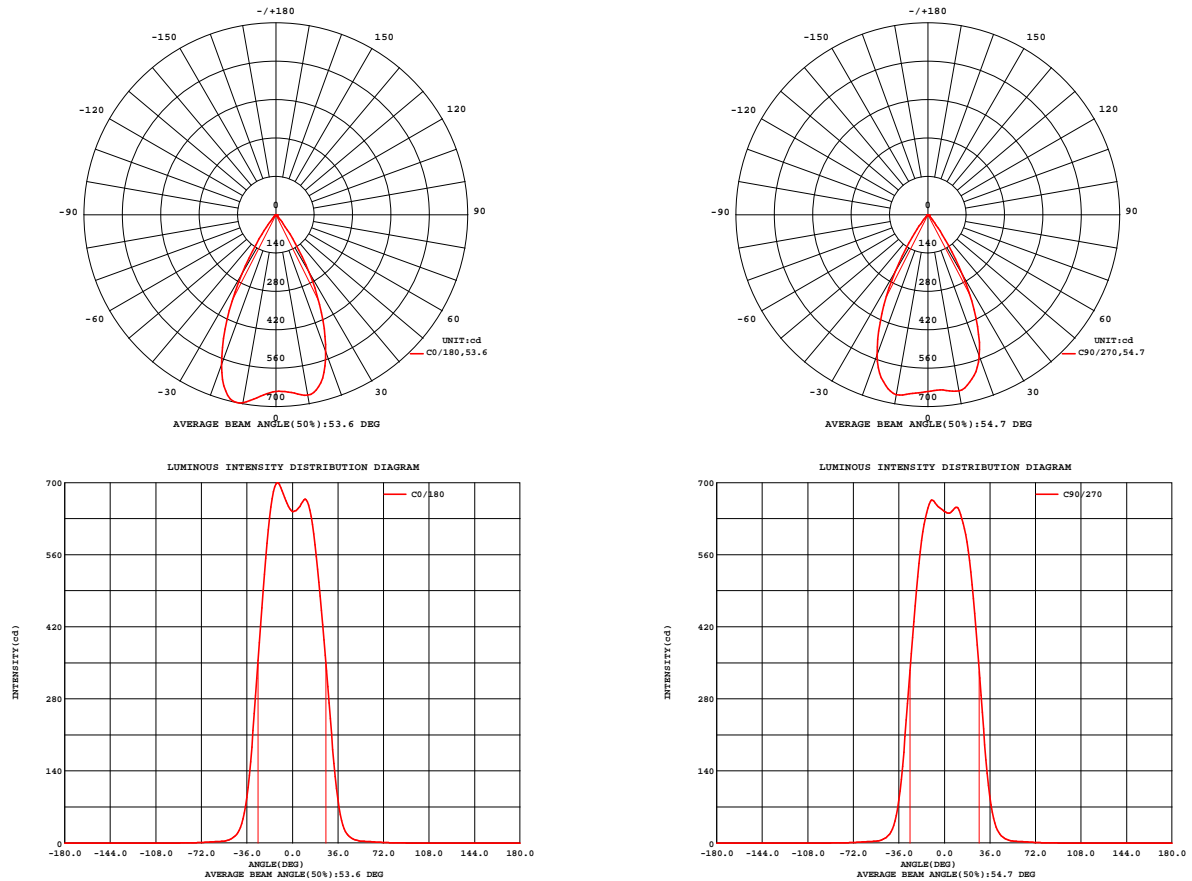


Fig. C0/C180

Fig. C90/C270

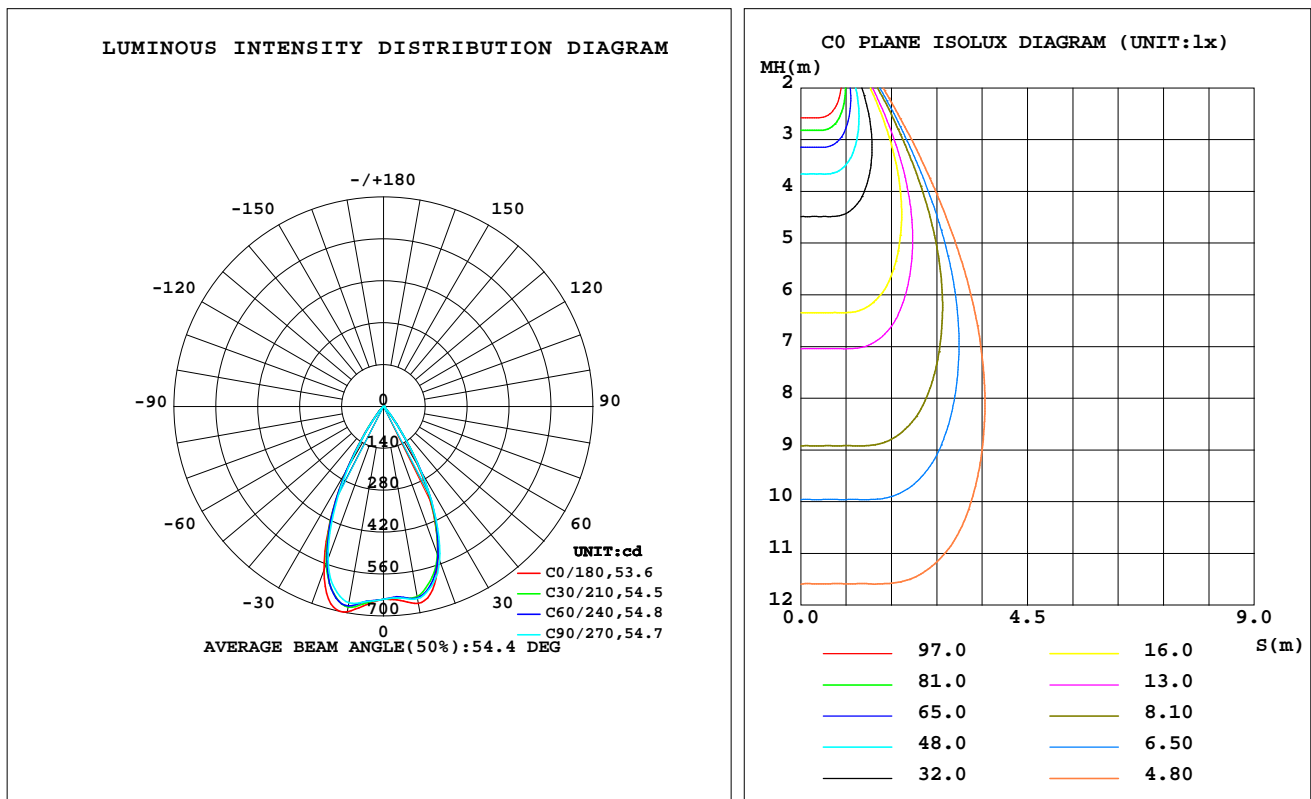
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LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.14V I:0.0376A P:7.5769W PF:0.9107 Freq:49.99Hz Lamp Flux:663.4x1 lm		
NAME: 2318.203-ACOT-96	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2306030726
MFR.: RISE	SUR.: 0.000572265m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 67.86 lm/W			
MODEL	CREE	I _{max} (cd)	715.4	S/MH(C0/180)	0.82
NOMINAL POWER(W)	7	LOR(%)	77.5	S/MH(C90/270)	0.81
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	514.20	η UP,DN(C0-180)	0.0,38.9
NOMINAL FLUX(lm)	663.4	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,38.6
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	220	η down(%)	77.5	CIBSE SHR MAX	0.80



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30minutes warm-up

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	667.8	647.6	652.0	698.4	696.0	678.5	666.2	685.9	0- 10	63.22	63.22	12.3,9.53
20	532.0	529.2	548.5	577.1	582.1	556.0	543.0	539.0	10- 20	177.8	241.1	46.9,36.3
30	241.4	253.4	254.1	250.1	251.3	249.5	238.7	232.8	20- 30	182.9	424.0	82.5,63.9
40	34.81	36.82	38.79	39.76	37.51	34.99	34.03	34.33	30- 40	72.17	496.1	96.5,74.8
50	5.697	6.019	6.340	6.449	6.035	5.755	5.517	5.477	40- 50	11.95	508.1	98.8,76.6
60	2.775	2.801	2.828	2.776	2.688	2.657	2.680	2.721	50- 60	3.313	511.4	99.5,77.1
70	1.294	1.327	1.311	1.284	1.223	1.179	1.162	1.200	60- 70	1.955	513.4	99.8,77.4
80	0.3108	0.3301	0.3308	0.3077	0.2759	0.2515	0.2520	0.2657	70- 80	0.7588	514.1	100,77.5
90	0	0	0	0	0	0	0	0	80- 90	0.0860	514.2	100,77.5
100	0	0	0	0	0	0	0	0	90-100	0	514.2	100,77.5
110	0	0	0	0	0	0	0	0	100-110	0	514.2	100,77.5
120	0	0	0	0	0	0	0	0	110-120	0	514.2	100,77.5
130	0	0	0	0	0	0	0	0	120-130	0	514.2	100,77.5
140	0	0	0	0	0	0	0	0	130-140	0	514.2	100,77.5
150	0	0	0	0	0	0	0	0	140-150	0	514.2	100,77.5
160	0	0	0	0	0	0	0	0	150-160	0	514.2	100,77.5
170	0	0	0	0	0	0	0	0	160-170	0	514.2	100,77.5
180	0	0	0	0	0	0	0	0	170-180	0	514.2	100,77.5
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
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30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:220.14V I:0.0376A P:7.5769W PF:0.9107 Freq:49.99Hz
Lamp Flux:663.4x1 lm

NAME: 2318.203-ACOT-96

TYPE:

WEIGHT:

SPEC.: 3000K

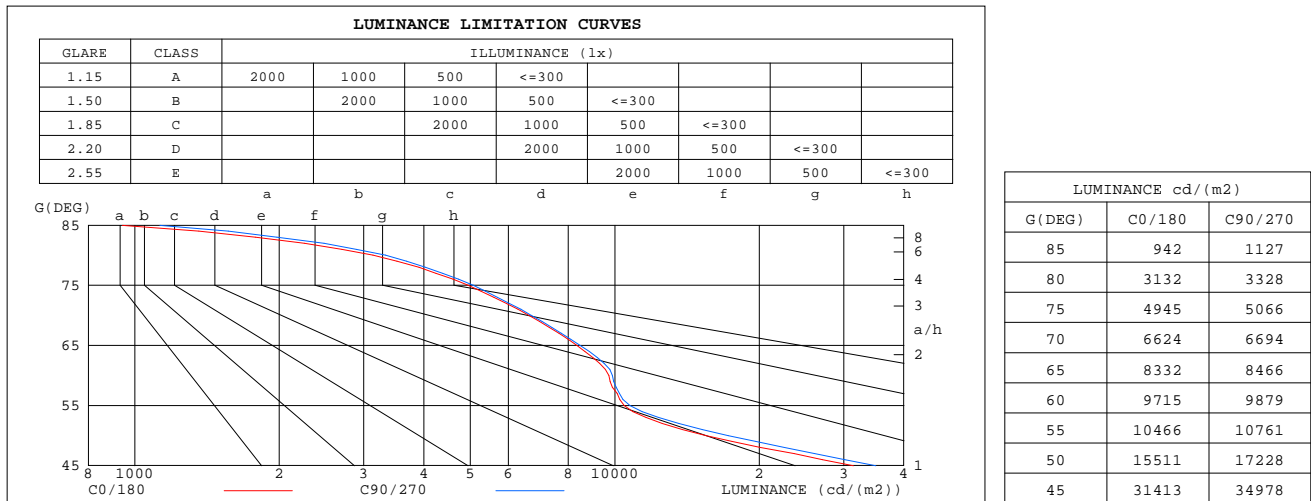
DIM.:

SERIAL No.: 2306030726

MFR.: RISE

SUR.: 0.000572265m2

Shielding Angle:



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

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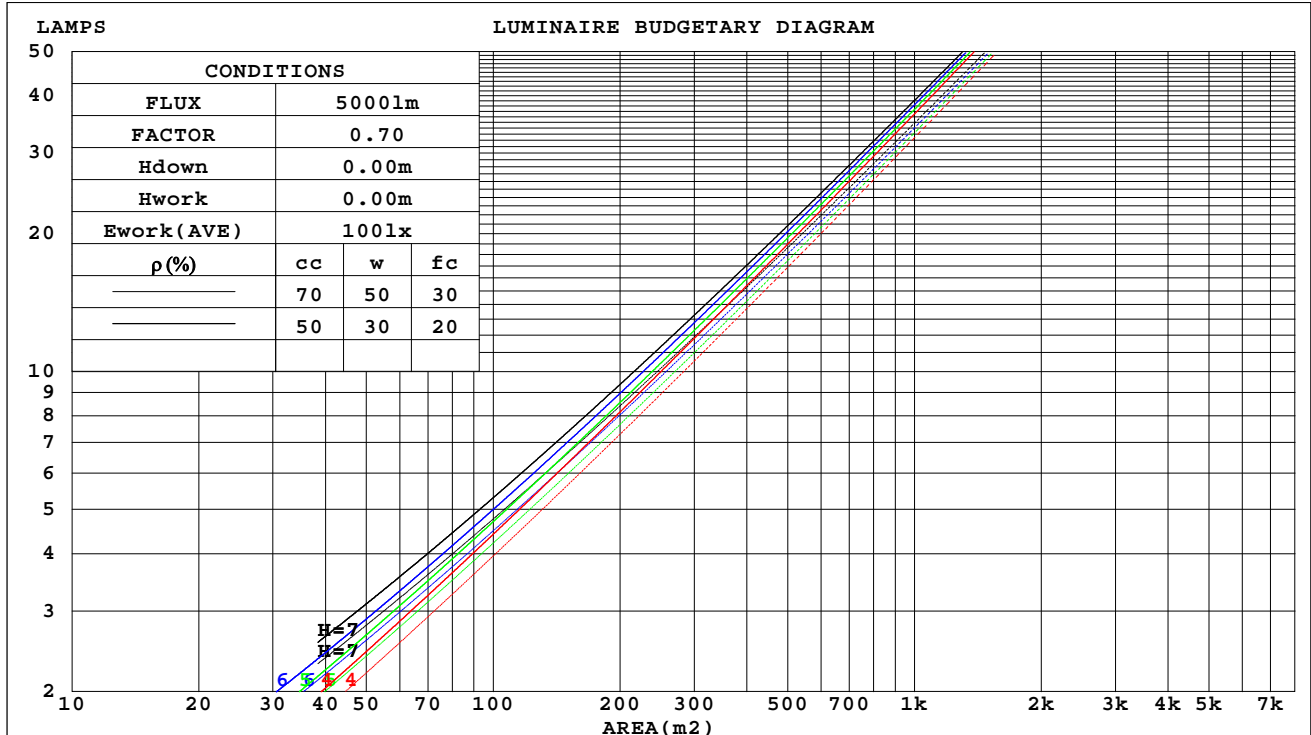
SERIAL No.: 2306030726

MFR.: RISE

SUR.: 0.000572265m2

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.: 2306030726
MFR.: RISE	SUR.: 0.000572265m2	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	.130	.074	.023	.125	.071	.023	.115	.066	.021	.106	.061	.020	.098	.057	.018	
2.0	.124	.068	.021	.119	.066	.020	.111	.062	.019	.104	.058	.018	.097	.055	.017	
3.0	.117	.062	.019	.114	.061	.018	.107	.058	.018	.100	.055	.017	.094	.052	.016	
4.0	.112	.058	.017	.108	.057	.017	.103	.054	.016	.097	.052	.016	.092	.050	.015	
5.0	.106	.054	.016	.104	.053	.015	.098	.051	.015	.094	.049	.015	.089	.048	.014	
6.0	.102	.051	.015	.099	.050	.014	.095	.049	.014	.090	.047	.014	.086	.046	.014	
7.0	.097	.048	.014	.095	.047	.013	.091	.046	.013	.087	.045	.013	.084	.044	.013	
8.0	.093	.045	.013	.091	.045	.013	.088	.044	.013	.084	.043	.012	.081	.042	.012	
9.0	.089	.043	.012	.088	.043	.012	.085	.042	.012	.082	.041	.012	.079	.040	.012	
10.0	.086	.041	.011	.084	.041	.011	.082	.040	.011	.079	.039	.011	.076	.038	.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	.148	.148	.148	.126	.126	.126	.086	.086	.086	.049	.049	.049	.016	.016	.016		
1.0	.132	.122	.113	.113	.105	.097	.077	.072	.067	.045	.042	.039	.014	.013	.013		
2.0	.120	.103	.088	.103	.088	.076	.070	.061	.053	.041	.036	.031	.013	.012	.010		
3.0	.110	.088	.071	.094	.076	.061	.065	.053	.043	.037	.031	.025	.012	.010	.008		
4.0	.101	.076	.057	.087	.066	.050	.060	.046	.035	.035	.027	.021	.011	.009	.007		
5.0	.095	.067	.047	.081	.058	.041	.056	.041	.029	.032	.024	.017	.010	.008	.006		
6.0	.089	.060	.040	.076	.052	.034	.053	.036	.024	.030	.021	.014	.010	.007	.005		
7.0	.083	.054	.034	.072	.047	.029	.050	.033	.021	.029	.019	.012	.009	.006	.004		
8.0	.079	.049	.029	.068	.043	.025	.047	.030	.018	.027	.018	.011	.009	.006	.004		
9.0	.075	.045	.025	.065	.039	.022	.045	.028	.015	.026	.016	.009	.008	.005	.003		
10.0	.072	.042	.022	.062	.036	.019	.043	.025	.014	.025	.015	.008	.008	.005	.003		

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UGR(Unified Glare Rating) Table

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SPEC.: 3000K					DIM.:			SERIAL No.: 2306030726		
MFR.: RISE					SUR.: 0.000572265m2			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	22.5	23.4	22.7	23.6	23.7	22.7	23.6	22.9	23.7	23.9
3H	22.4	23.2	22.7	23.4	23.6	22.6	23.4	22.8	23.6	23.8
4H	22.3	23.1	22.6	23.3	23.5	22.5	23.3	22.8	23.5	23.7
6H	22.3	23.0	22.6	23.2	23.5	22.4	23.1	22.7	23.4	23.6
8H	22.2	22.9	22.5	23.2	23.4	22.4	23.1	22.7	23.3	23.6
12H	22.2	22.8	22.5	23.1	23.4	22.3	23.0	22.7	23.3	23.5
4H 2H	22.3	23.1	22.6	23.3	23.5	22.5	23.2	22.7	23.5	23.7
3H	22.2	22.9	22.5	23.1	23.4	22.4	23.0	22.7	23.3	23.6
4H	22.1	22.7	22.5	23.0	23.3	22.3	22.9	22.6	23.2	23.5
6H	22.0	22.6	22.4	22.9	23.3	22.2	22.7	22.6	23.1	23.4
8H	22.0	22.5	22.4	22.8	23.2	22.2	22.7	22.6	23.0	23.4
12H	22.0	22.4	22.4	22.8	23.2	22.1	22.6	22.5	22.9	23.3
8H 4H	22.0	22.5	22.4	22.8	23.2	22.2	22.7	22.6	23.0	23.4
6H	21.9	22.3	22.3	22.7	23.1	22.1	22.5	22.5	22.9	23.3
8H	21.9	22.2	22.3	22.6	23.1	22.0	22.4	22.5	22.8	23.2
12H	21.8	22.1	22.3	22.6	23.0	22.0	22.3	22.4	22.7	23.2
12H 4H	21.9	22.4	22.4	22.8	23.2	22.1	22.6	22.5	22.9	23.3
6H	21.9	22.2	22.3	22.6	23.1	22.0	22.4	22.5	22.8	23.2
8H	21.8	22.1	22.3	22.6	23.0	22.0	22.3	22.4	22.7	23.2
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 3.7 / - 6.9					+ 3.9 / - 7.1				
1.5H	+ 6.1 / - 6.3					+ 6.3 / - 6.6				
2.0H	+ 4.0 / - 1.6					+ 4.4 / - 1.8				

CIE Pub.117, 663.4 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -1.4)
Area: 0.000572265 m2

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UTILIZATION FACTORS TABLE

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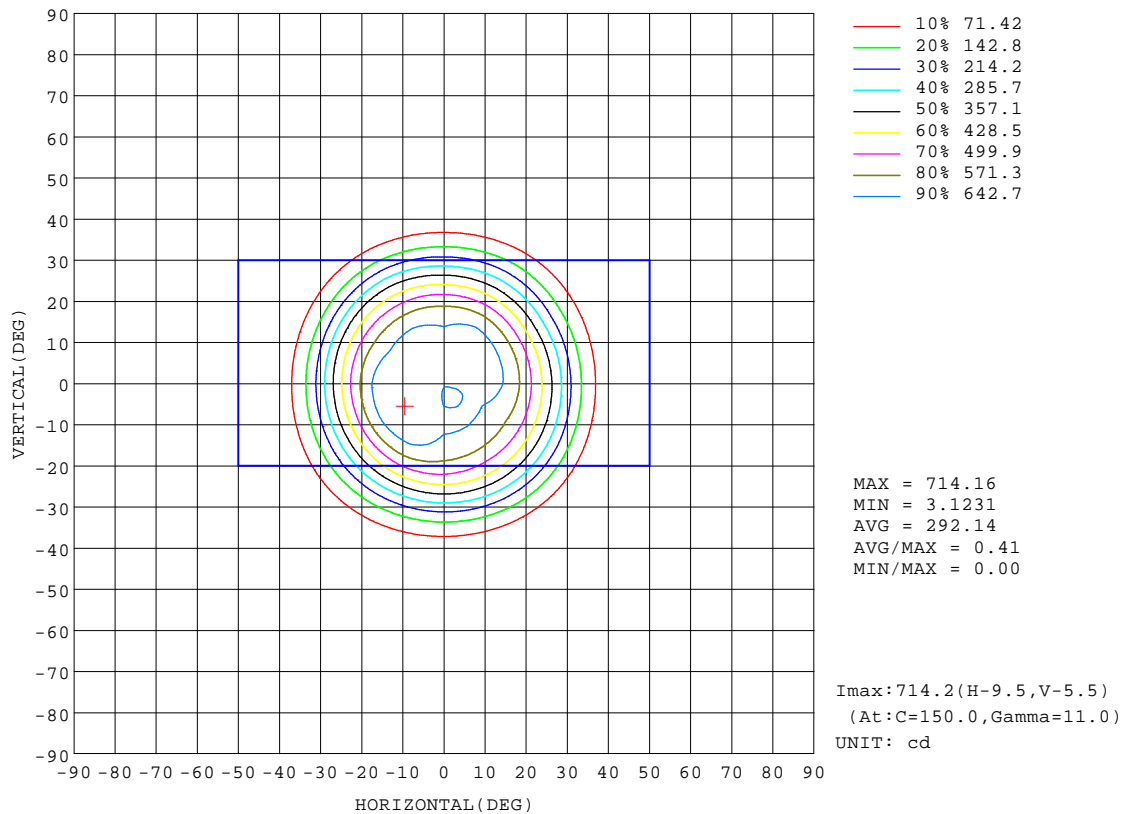
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	69	65	62	69	65	62	68	64	62	59
0.80	75	71	68	74	70	68	73	70	67	65
1.00	78	74	71	77	74	71	76	73	71	68
1.25	81	77	75	80	77	74	79	76	74	71
1.50	83	79	77	82	79	77	80	78	76	72
2.00	85	82	79	84	81	79	82	79	78	74
2.50	86	83	81	85	82	80	82	80	79	74
3.00	87	85	83	86	83	82	83	81	80	75
4.00	89	87	85	87	85	84	84	83	82	76
5.00	89	88	87	88	86	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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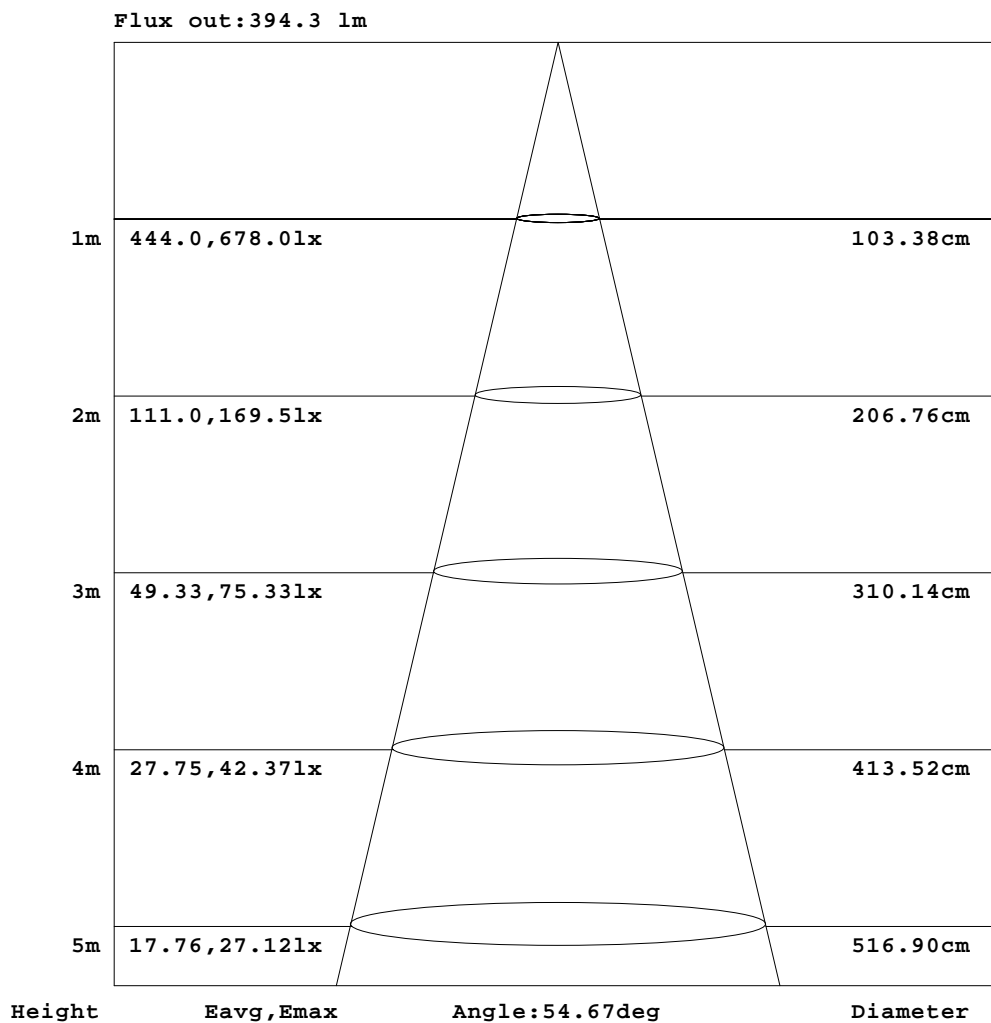


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AAI Figure

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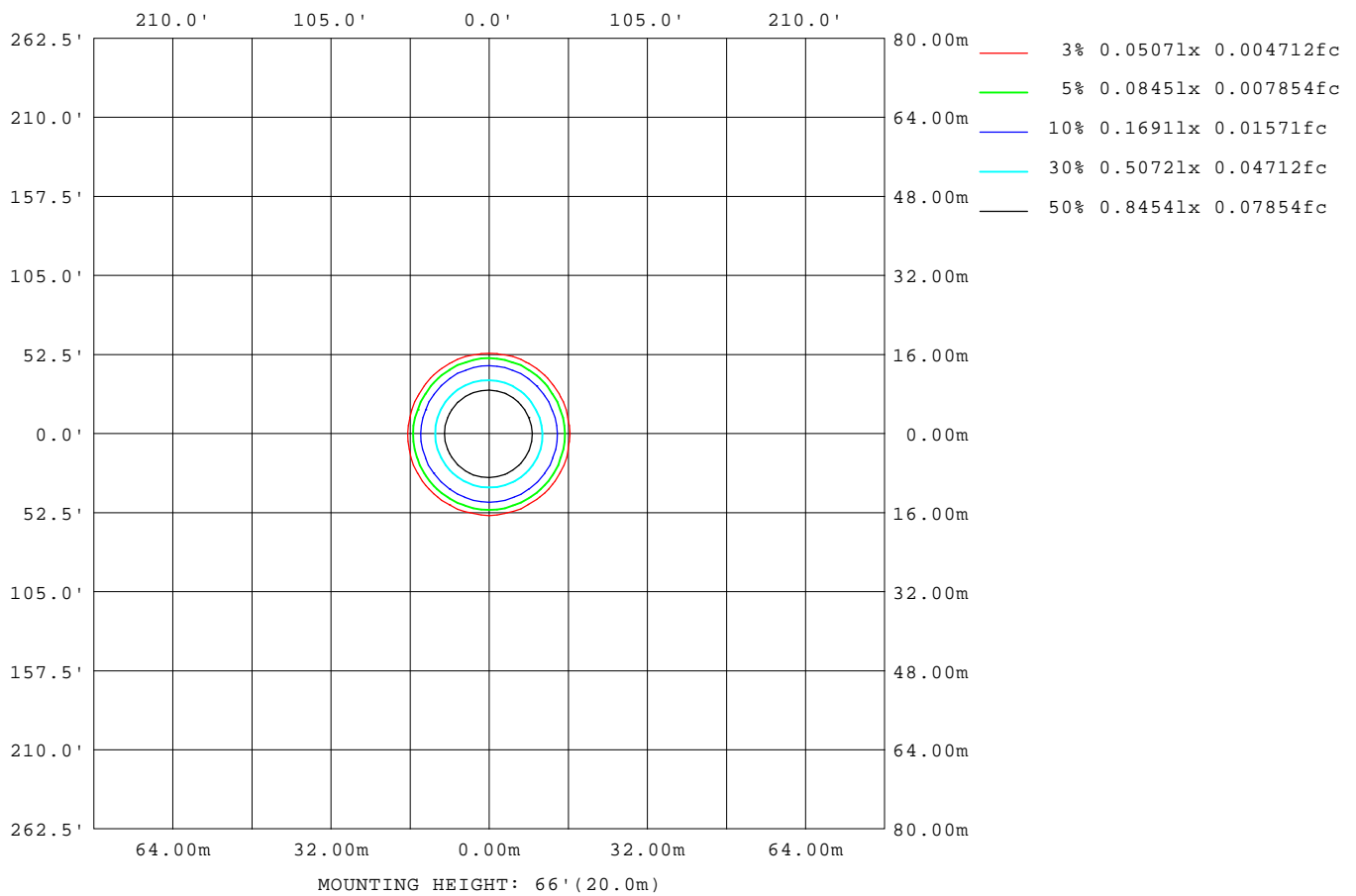
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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Test Date:2023-6-3

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: KEDH009S0350NR12A1 350mA
30minutes warm-up

LED Avg.L Report

Test:U:220.14V I:0.0376A P:7.5769W PF:0.9107 Freq:49.99Hz Lamp Flux:663.4x1 lm		
NAME: 2318.203-ACOT-96	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2306030726
MFR.: RISE	SUR.: 0.000572265m2	Shielding Angle:

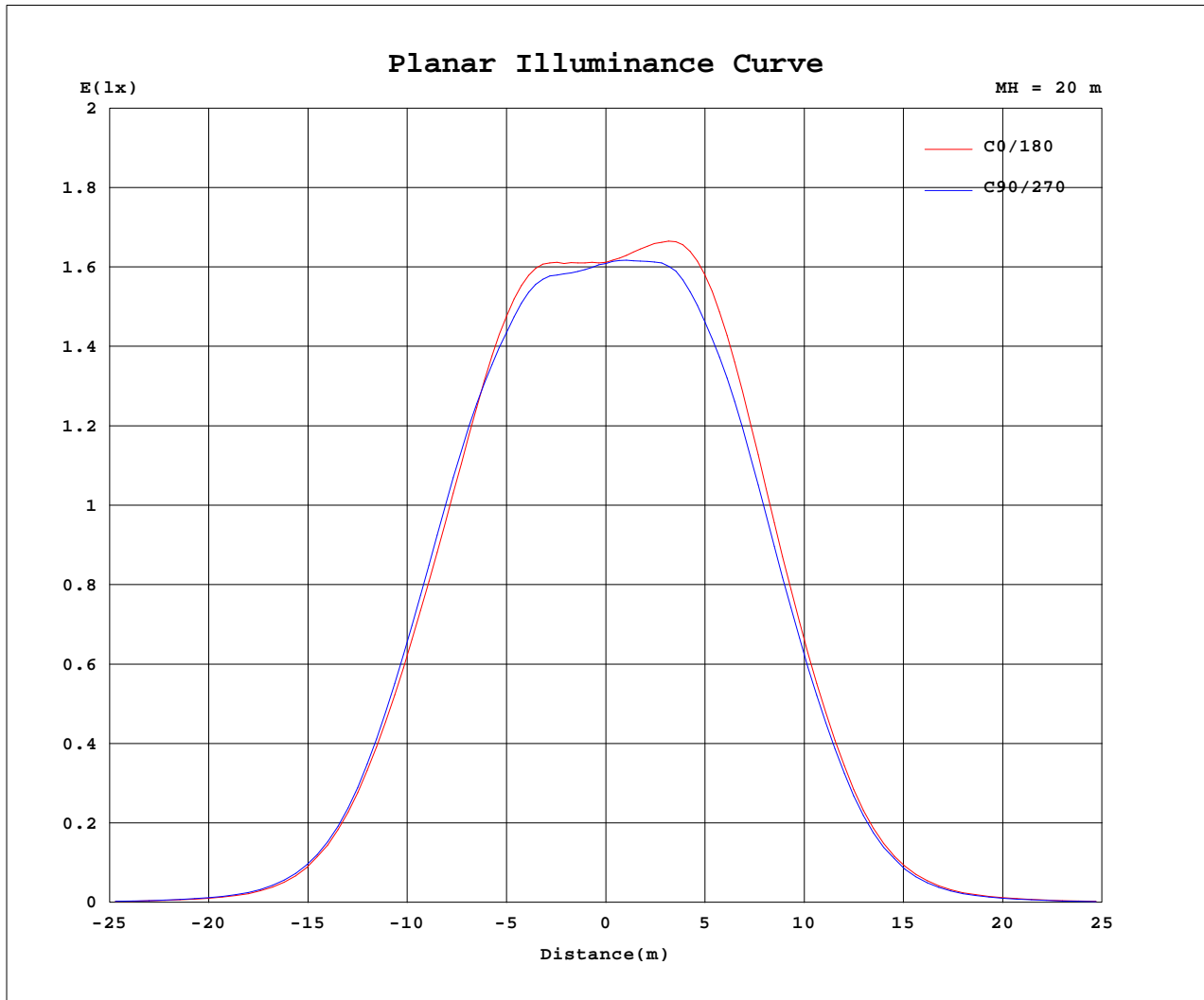
AvgL	cd/m2
L_0~180(65)av	8146
L_0~180(75)av	4757
L_0~180(85)av	860
L_90~270(65)av	8095
L_90~270(75)av	4666
L_90~270(85)av	885
L_45(65)av	8113
L_45(75)av	4700
L_45(85)av	780

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2023-6-3

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: KEDH009S0350NR12A1 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: 2023-6-3

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: KEDH009S0350NR12A1 350mA
 30minutes warm-up

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.14V I:0.0376A P:7.5769W PF:0.9107 Freq:49.99Hz Lamp Flux:663.4x1 lm		
NAME: 2318.203-ACOT-96	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2306030726
MFR.: RISE	SUR.: 0.000572265m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	644	644	644	644	644	644	644	644	644	644	644	644						
5	651	642	638	642	656	668	665	658	653	654	659	659						
10	668	645	650	652	686	711	696	681	677	666	687	685						
15	634	603	614	621	671	689	682	646	648	630	655	642						
20	532	526	532	548	572	582	582	560	552	543	544	533						
25	394	403	410	416	418	418	423	420	415	399	396	383						
30	241	252	255	254	250	250	251	249	250	239	239	227						
35	106	111	111	112	110	111	108	103	105	101	104	99.6						
40	34.8	36.5	37.2	38.8	39.3	40.2	37.5	35.0	35.0	34.0	34.5	34.1						
45	12.7	13.4	13.4	14.2	14.5	14.9	14.1	13.4	12.8	12.5	12.5	12.3						
50	5.70	5.98	6.06	6.34	6.42	6.48	6.03	5.87	5.64	5.52	5.51	5.45						
55	3.43	3.48	3.50	3.53	3.51	3.45	3.32	3.30	3.30	3.32	3.39	3.40						
60	2.78	2.80	2.80	2.83	2.80	2.75	2.69	2.66	2.66	2.68	2.71	2.73						
65	2.01	2.05	2.05	2.05	2.02	1.99	1.93	1.88	1.87	1.87	1.89	1.94						
70	1.29	1.33	1.32	1.31	1.29	1.27	1.22	1.18	1.17	1.16	1.18	1.22						
75	0.73	0.76	0.75	0.75	0.73	0.72	0.68	0.65	0.64	0.63	0.65	0.68						
80	0.31	0.33	0.33	0.33	0.31	0.30	0.28	0.25	0.25	0.25	0.26	0.28						
85	0.05	0.05	0.05	0.06	0.05	0.05	0.04	0.03	0.03	0.03	0.03	0.03						
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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