

Luminaire Photograph



Light Output Ratio:	82.9%	
Luminaire Power:	8.275 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	0.30	fine grid method.

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

Range: 0 - 180DEG
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-1084A 24R
DRIVER: 9290 028 088 350mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

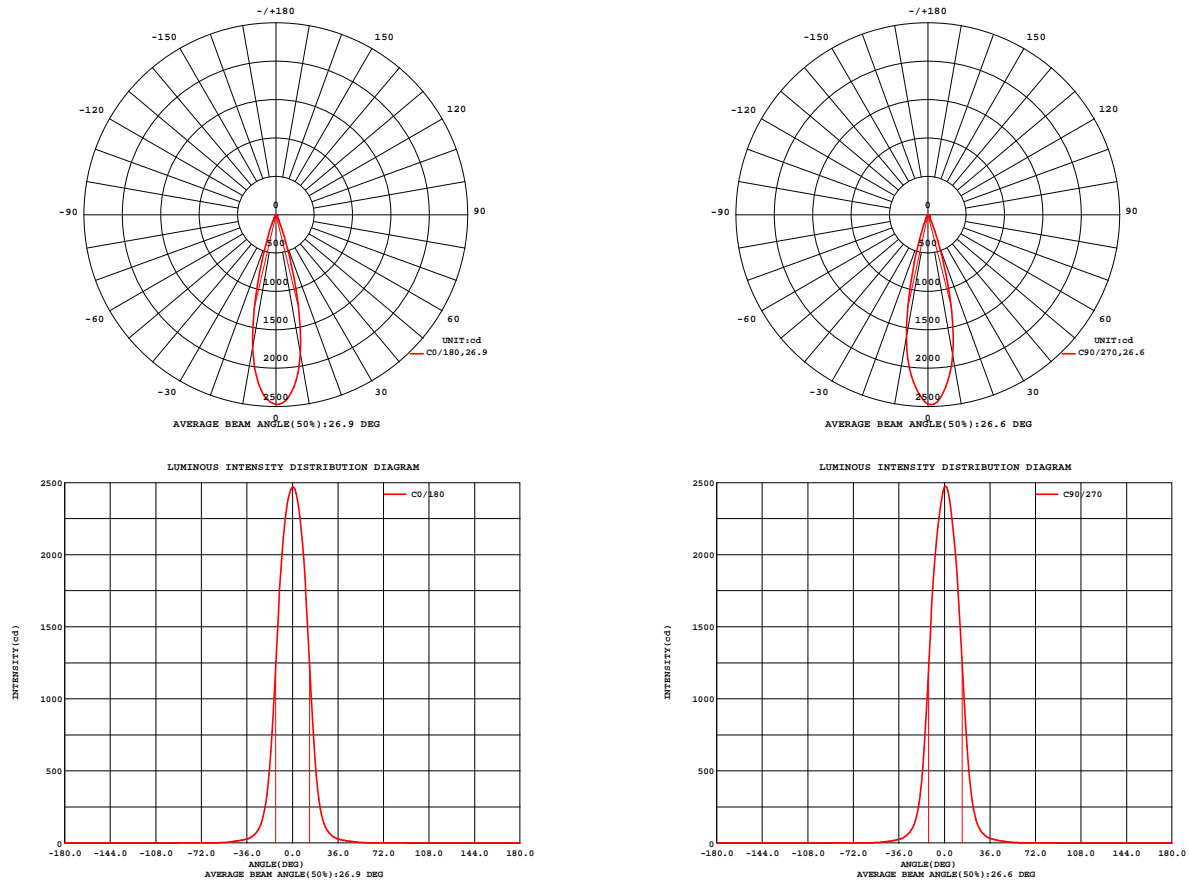


Fig. C0/C180

Fig. C90/C270

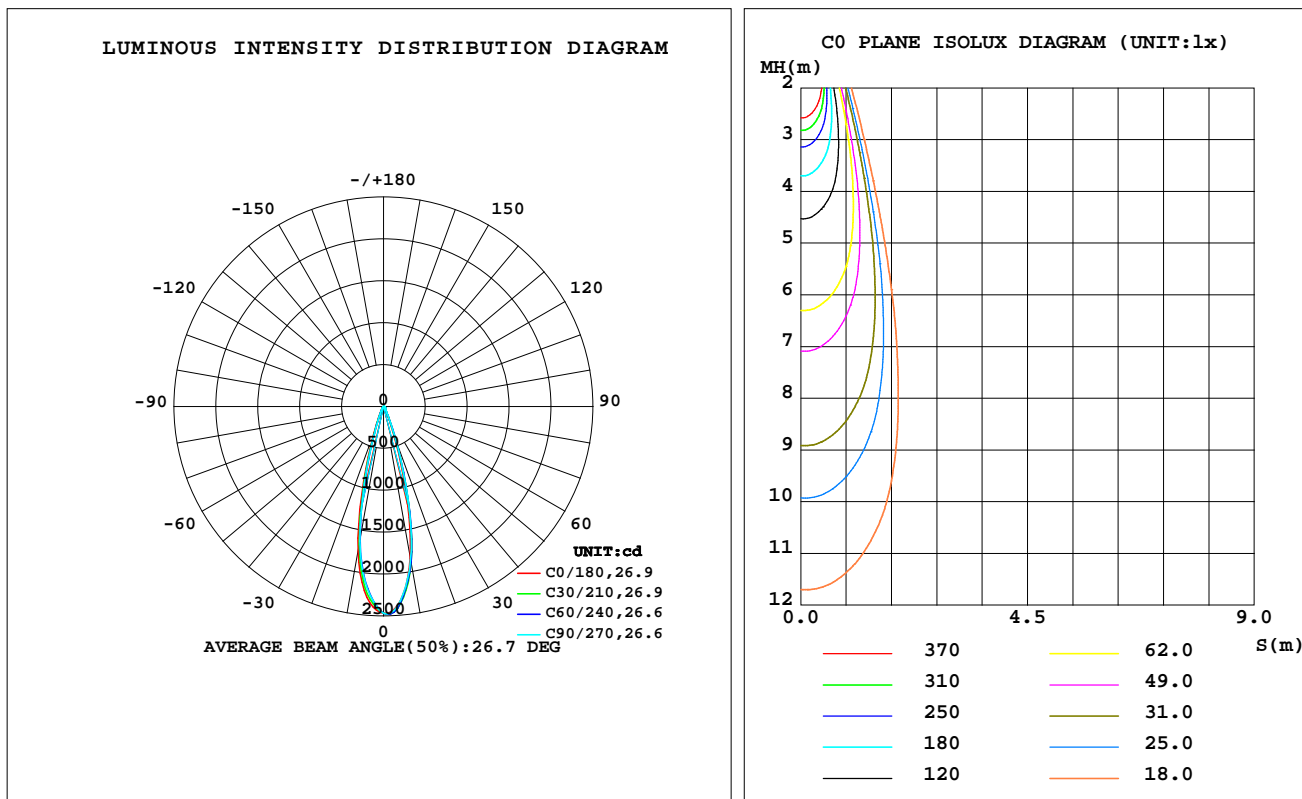
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LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.19V I:0.0398A P:8.2747W PF:0.9408 Freq:49.99Hz Lamp Flux:685.66x1 lm		
NAME: 2214.411-1-ACOT-96	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308081000
MFR.: RISE	SUR.: 0.0025m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 68.70 lm/W			
MODEL	CREE	I _{max} (cd)	2480	S/MH(C0/180)	0.42
NOMINAL POWER(W)	8	LOR(%)	82.9	S/MH(C90/270)	0.40
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	568.48	UP,DN(C0-180)	0.0,44.9
NOMINAL FLUX(lm)	685.66	CIE CLASS	DIRECT	UP,DN(C180-360)	0.0,38.0
LAMPS INSIDE	1	up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	220	down(%)	82.9	CIBSE SHR MAX	0.30



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ZONAL FLUX DIAGRAM

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	C0	C45	C90	C135	C180	C225	C270	C315		zone	total	%lum,lamp
10	1840	1893	1861	1811	1758	1648	1629	1712	0- 10	201.3	201.3	35.4,29.4
20	375.5	441.6	448.4	402.4	338.3	283.0	271.9	304.8	10- 20	261.2	462.6	81.4,67.5
30	60.69	70.00	70.36	61.94	56.67	52.73	50.94	51.42	20- 30	68.83	531.4	93.5,77.5
40	19.63	22.14	22.89	20.82	19.31	18.37	17.44	17.93	30- 40	21.01	552.4	97.2,80.6
50	6.723	9.771	7.917	9.724	6.204	7.630	4.900	7.964	40- 50	10.34	562.7	99,82.1
60	1.893	2.301	1.991	2.242	1.818	1.913	1.654	2.013	50- 60	3.713	566.4	99.6,82.6
70	0.7394	0.9574	0.8654	0.9787	0.7427	0.7995	0.5992	0.8205	60- 70	1.379	567.8	99.9,82.8
80	0.2240	0.2737	0.2269	0.2736	0.2209	0.2386	0.2151	0.2367	70- 80	0.4977	568.3	100,82.9
90	0	0	0	0	0	0	0	0	80- 90	0.1618	568.5	100,82.9
100	0	0	0	0	0	0	0	0	90-100	0	568.5	100,82.9
110	0	0	0	0	0	0	0	0	100-110	0	568.5	100,82.9
120	0	0	0	0	0	0	0	0	110-120	0	568.5	100,82.9
130	0	0	0	0	0	0	0	0	120-130	0	568.5	100,82.9
140	0	0	0	0	0	0	0	0	130-140	0	568.5	100,82.9
150	0	0	0	0	0	0	0	0	140-150	0	568.5	100,82.9
160	0	0	0	0	0	0	0	0	150-160	0	568.5	100,82.9
170	0	0	0	0	0	0	0	0	160-170	0	568.5	100,82.9
180	0	0	0	0	0	0	0	0	170-180	0	568.5	100,82.9
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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LUMINANCE LIMITATION CURVES

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Lamp Flux:685.66x1 lm

NAME: 2214.411-1-ACOT-96

TYPE:

WEIGHT:

SPEC.: 3000K

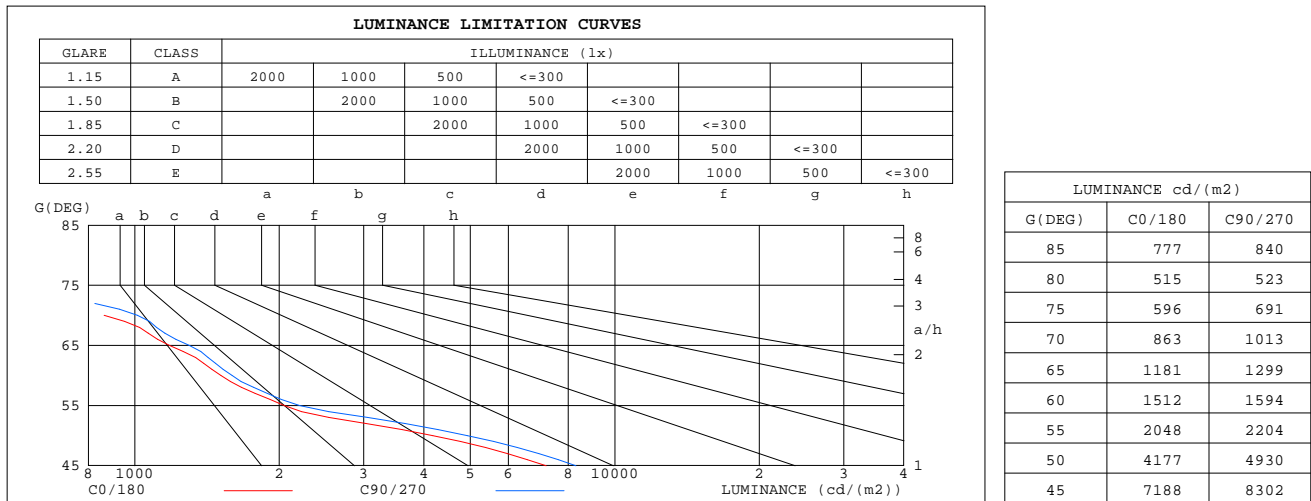
DIM.:

SERIAL No.: 2308081000

MFR.: RISE

SUR.: 0.0025m2

Shielding Angle:



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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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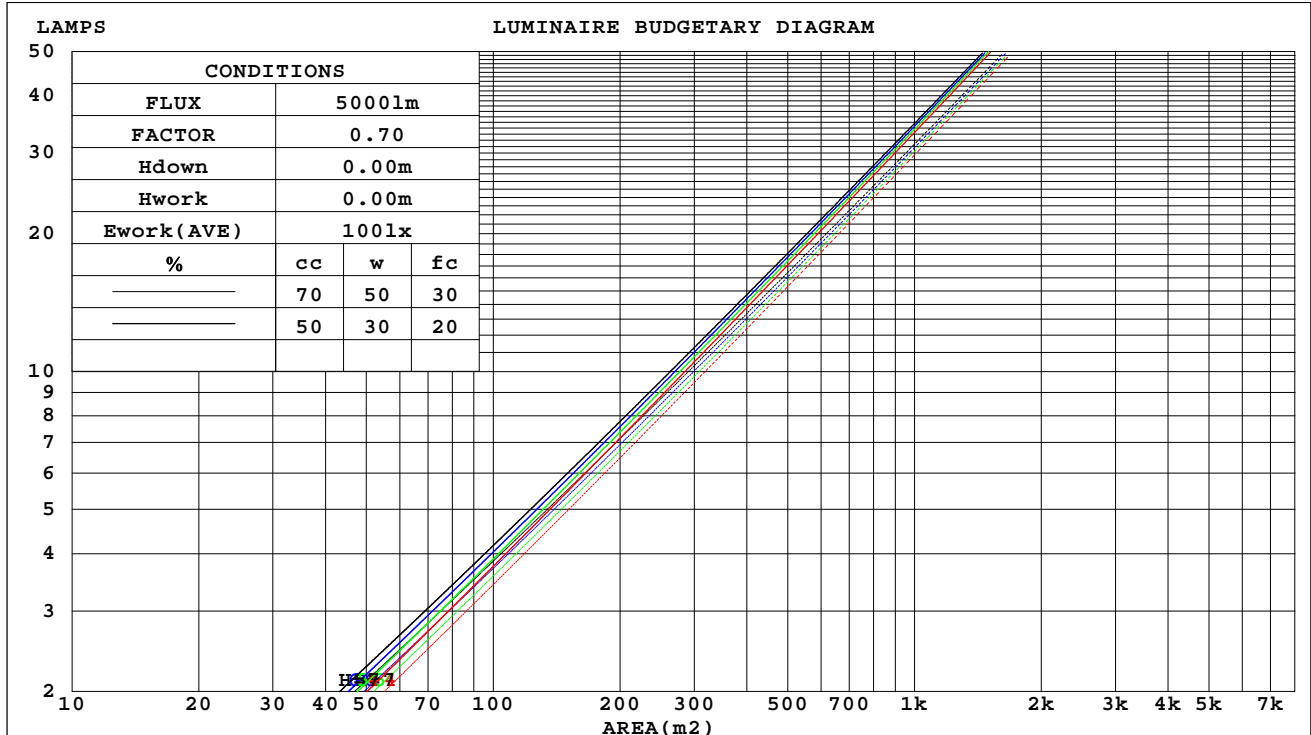
SERIAL No.: 2308081000

MFR.: RISE

SUR.: 0.0025m2

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.: 2308081000
MFR.: RISE	SUR.: 0.0025m2	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	.115	.065	.021	.109	.062	.020	.099	.057	.018	.089	.052	.017	.081	.047	.015	
2.0	.106	.058	.018	.102	.056	.017	.093	.052	.016	.085	.048	.015	.078	.044	.014	
3.0	.099	.053	.016	.095	.051	.015	.088	.048	.015	.082	.045	.014	.076	.042	.013	
4.0	.093	.048	.014	.090	.047	.014	.084	.044	.013	.078	.042	.013	.073	.040	.012	
5.0	.087	.044	.013	.085	.043	.013	.080	.041	.012	.075	.039	.012	.070	.038	.011	
6.0	.083	.041	.012	.080	.041	.012	.076	.039	.011	.072	.037	.011	.068	.036	.011	
7.0	.078	.039	.011	.076	.038	.011	.073	.037	.011	.069	.035	.010	.066	.034	.010	
8.0	.075	.036	.010	.073	.036	.010	.069	.035	.010	.066	.034	.010	.063	.033	.009	
9.0	.071	.034	.010	.070	.034	.010	.067	.033	.009	.064	.032	.009	.061	.031	.009	
10.0	.068	.033	.009	.067	.032	.009	.064	.031	.009	.062	.031	.009	.059	.030	.009	

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	.158	.158	.158	.135	.135	.135	.092	.092	.092	.053	.053	.053	.017	.017	.017	
1.0	.140	.131	.123	.119	.112	.106	.082	.077	.073	.047	.045	.042	.015	.014	.014	
2.0	.125	.110	.098	.107	.095	.084	.073	.066	.059	.042	.038	.035	.014	.012	.011	
3.0	.112	.094	.079	.096	.081	.069	.066	.056	.048	.038	.033	.028	.012	.011	.009	
4.0	.102	.081	.065	.088	.070	.057	.060	.049	.040	.035	.029	.024	.011	.009	.008	
5.0	.093	.071	.055	.080	.061	.047	.055	.043	.033	.032	.025	.020	.010	.008	.007	
6.0	.086	.063	.046	.074	.054	.040	.051	.038	.028	.030	.022	.017	.010	.007	.006	
7.0	.080	.056	.039	.068	.048	.034	.047	.034	.024	.027	.020	.014	.009	.007	.005	
8.0	.074	.050	.034	.064	.044	.030	.044	.031	.021	.026	.018	.013	.008	.006	.004	
9.0	.069	.046	.030	.060	.040	.026	.041	.028	.018	.024	.016	.011	.008	.005	.004	
10.0	.065	.042	.026	.056	.036	.023	.039	.025	.016	.023	.015	.010	.007	.005	.003	

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30minutes warm-up

UGR(Unified Glare Rating) Table

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SPEC.: 3000K					DIM.:			SERIAL No.: 2308081000		
MFR.: RISE					SUR.: 0.0025m2			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	11.0	11.7	11.2	11.9	12.0	11.5	12.2	11.7	12.3	12.5
3H	11.0	11.6	11.3	11.8	12.0	11.5	12.1	11.7	12.3	12.5
4H	11.0	11.5	11.2	11.8	12.0	11.4	12.0	11.7	12.2	12.4
6H	10.9	11.5	11.2	11.7	11.9	11.4	11.9	11.7	12.2	12.4
8H	10.9	11.4	11.2	11.6	11.9	11.3	11.9	11.6	12.1	12.4
12H	10.8	11.4	11.1	11.6	11.9	11.3	11.8	11.6	12.1	12.3
4H 2H	11.0	11.5	11.2	11.7	12.0	11.4	12.0	11.7	12.2	12.4
3H	10.9	11.5	11.3	11.7	12.0	11.4	11.9	11.7	12.2	12.4
4H	10.9	11.4	11.2	11.7	12.0	11.4	11.8	11.7	12.1	12.4
6H	10.8	11.3	11.2	11.6	11.9	11.3	11.7	11.7	12.0	12.4
8H	10.8	11.2	11.2	11.5	11.9	11.3	11.6	11.6	12.0	12.3
12H	10.8	11.1	11.2	11.5	11.9	11.2	11.6	11.6	11.9	12.3
8H 4H	10.8	11.2	11.2	11.5	11.9	11.2	11.6	11.6	12.0	12.3
6H	10.7	11.1	11.2	11.4	11.9	11.2	11.5	11.6	11.9	12.3
8H	10.7	11.0	11.1	11.4	11.8	11.1	11.4	11.6	11.8	12.3
12H	10.7	10.9	11.2	11.4	11.8	11.1	11.4	11.6	11.8	12.3
12H 4H	10.7	11.1	11.1	11.5	11.8	11.2	11.5	11.6	11.9	12.3
6H	10.7	11.0	11.1	11.4	11.8	11.1	11.4	11.6	11.8	12.3
8H	10.7	10.9	11.1	11.3	11.8	11.1	11.3	11.6	11.8	12.2
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 2.0 / - 4.7					+ 2.1 / - 5.0				
1.5H	+ 2.2 / - 3.6					+ 2.7 / - 3.3				
2.0H	+ 4.0 / - 4.3					+ 4.2 / - 4.4				

CIE Pub.117, 685.7 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -1.3)
Area: 0.0025 m2

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UTILIZATION FACTORS TABLE

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MFR.: RISE	SUR.: 0.0025m2	Shielding Angle:

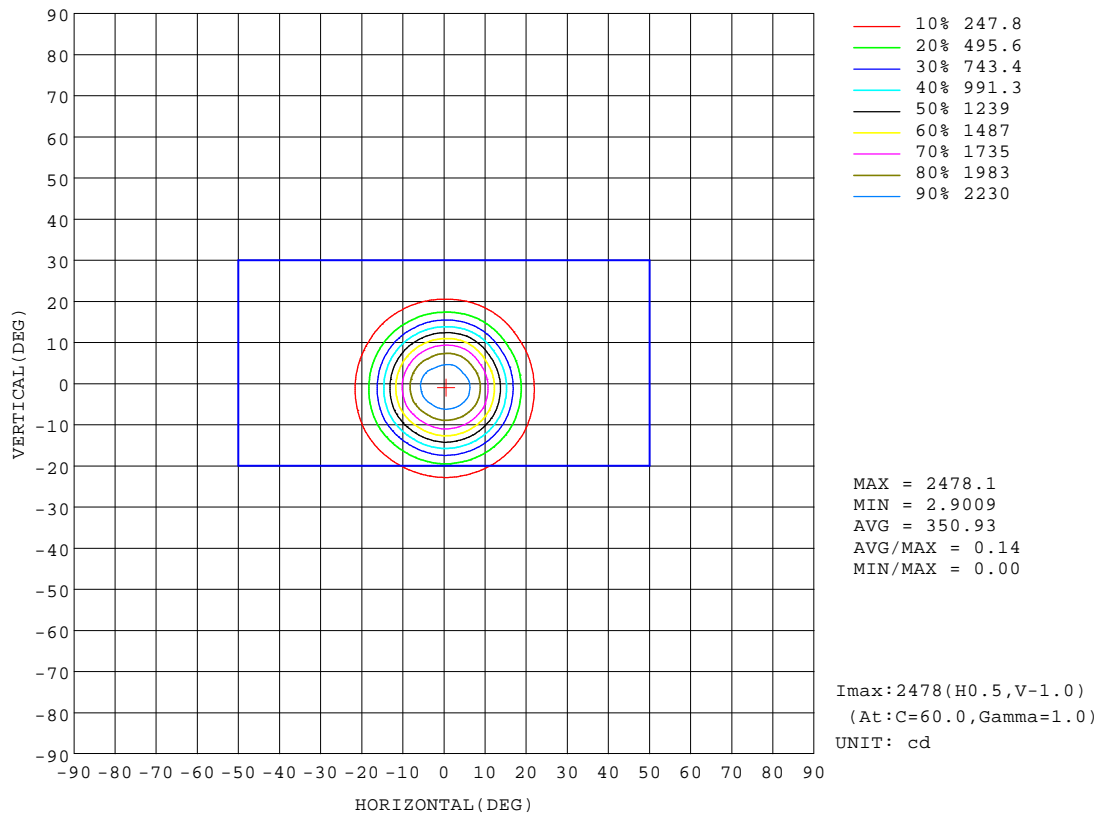
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	74	70	67	74	69	67	73	69	66	64
0.80	80	76	73	80	76	73	79	75	73	70
1.00	84	79	77	83	79	76	82	79	76	73
1.25	87	83	80	86	82	80	84	81	79	76
1.50	89	85	83	88	85	82	86	83	81	78
2.00	91	88	85	90	87	84	87	85	83	79
2.50	92	89	87	91	88	86	88	86	84	80
3.00	93	91	88	92	89	88	89	87	86	81
4.00	95	93	91	93	91	90	90	89	88	82
5.00	96	94	93	94	93	91	91	90	89	83
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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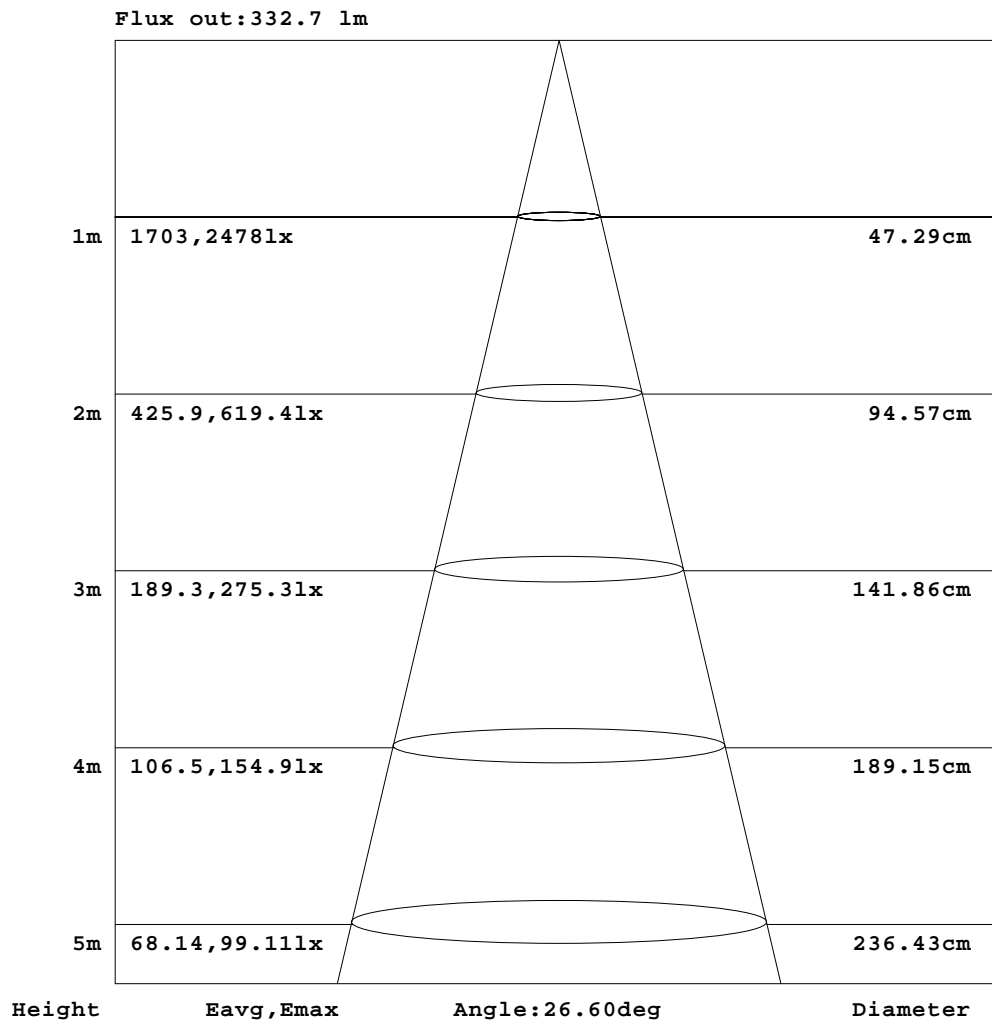


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AAI Figure

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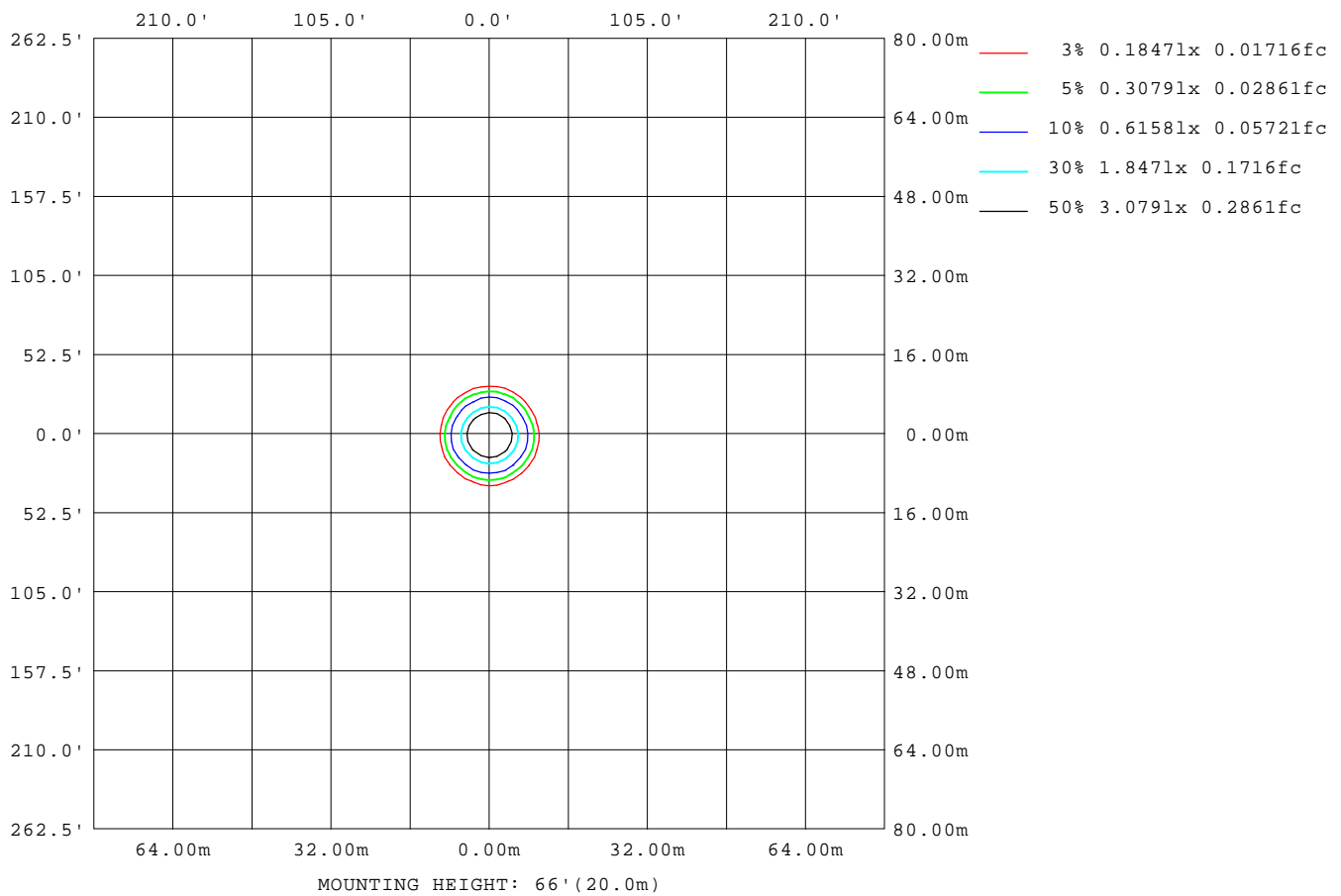
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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30minutes warm-up

LED Avg.L Report

Test:U:220.19V I:0.0398A P:8.2747W PF:0.9408 Freq:49.99Hz Lamp Flux:685.66x1 lm		
NAME: 2214.411-1-ACOT-96	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308081000
MFR.: RISE	SUR.: 0.0025m2	Shielding Angle:

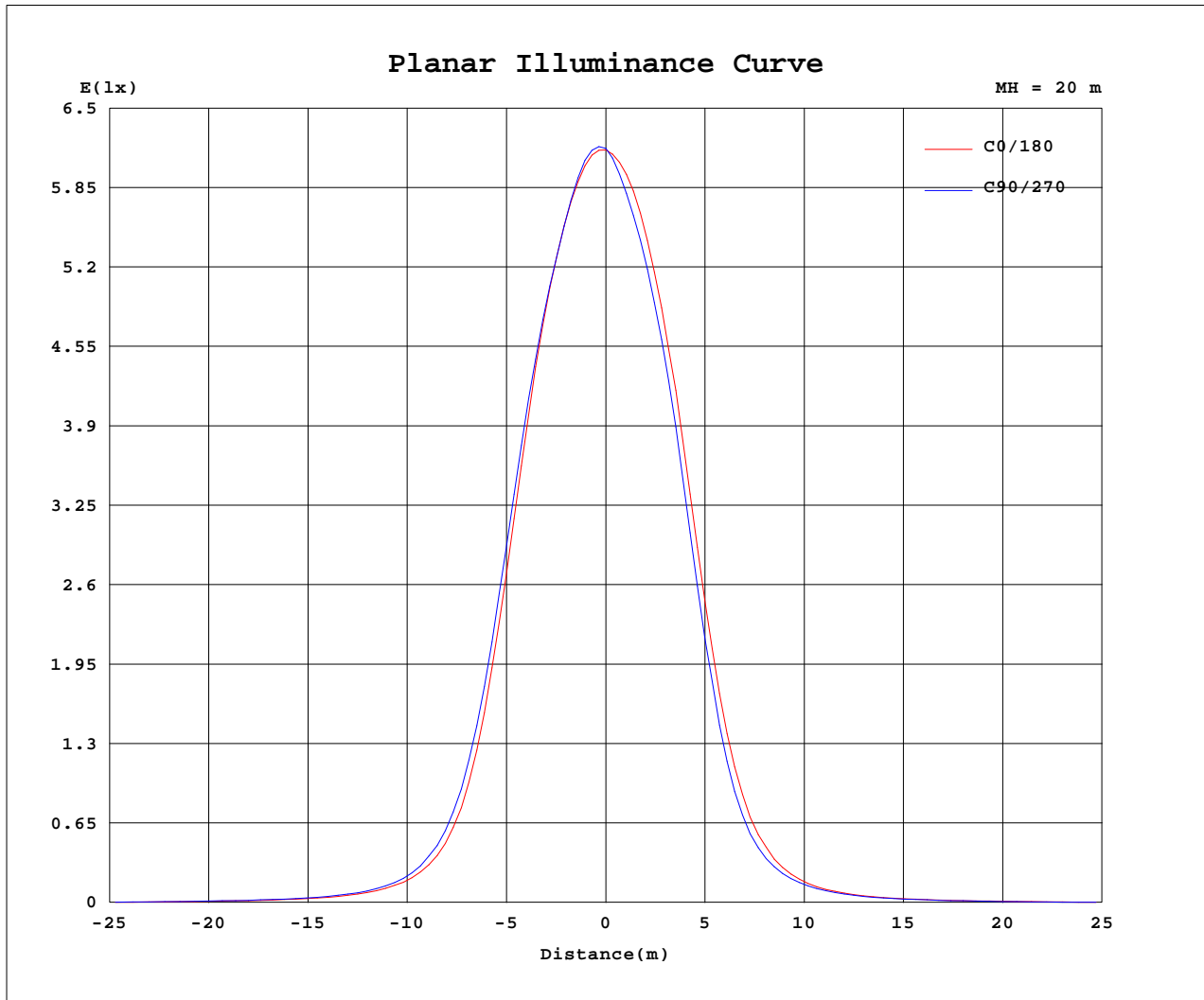
AvgL	cd/m2
L_0~180(65)av	1172
L_0~180(75)av	600
L_0~180(85)av	783
L_90~270(65)av	1163
L_90~270(75)av	596
L_90~270(85)av	744
L_45(65)av	1406
L_45(75)av	729
L_45(85)av	792

Standard: GB/T 29293-2012

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

Range: 0 - 180DEG
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-1084A 24R
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: 2023-8-8

Range: 0 - 180DEG
 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-1084A 24R
 DRIVER: 9290 028 088 350mA
 30minutes warm-up

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.19V I:0.0398A P:8.2747W PF:0.9408 Freq:49.99Hz Lamp Flux:685.66x1 lm		
NAME: 2214.411-1-ACOT-96	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308081000
MFR.: RISE	SUR.: 0.0025m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	2467	2467	2467	2467	2467	2467	2467	2467	2467	2467	2467	2467						
5	2325	2359	2350	2325	2293	2301	2286	2243	2180	2191	2228	2248						
10	1840	1895	1891	1861	1813	1809	1758	1673	1622	1629	1697	1728						
15	1021	1114	1132	1123	1049	1024	924	848	786	803	863	905						
20	376	431	452	448	411	394	338	295	271	272	296	314						
25	135	154	161	162	150	143	126	113	108	106	112	114						
30	60.7	68.4	71.6	70.4	63.8	60.1	56.7	53.5	52.0	50.9	51.3	51.5						
35	32.3	36.1	37.6	37.2	33.5	31.3	30.1	28.9	28.0	27.7	27.9	28.1						
40	19.6	21.6	22.7	22.9	21.3	20.3	19.3	18.6	18.1	17.4	17.7	18.1						
45	12.7	14.6	15.3	14.7	15.1	14.7	12.6	12.9	12.1	10.5	12.3	12.8						
50	6.72	9.58	9.96	7.92	9.97	9.48	6.20	8.03	7.23	4.90	7.71	8.22						
55	2.94	5.13	4.97	3.16	5.28	4.38	2.69	3.85	2.95	2.42	3.60	3.75						
60	1.89	2.33	2.27	1.99	2.33	2.15	1.82	1.99	1.83	1.65	1.98	2.05						
65	1.25	1.55	1.56	1.37	1.60	1.54	1.23	1.36	1.28	1.09	1.35	1.42						
70	0.74	0.95	0.97	0.87	1.00	0.96	0.74	0.82	0.77	0.60	0.80	0.84						
75	0.39	0.50	0.52	0.45	0.53	0.49	0.39	0.43	0.40	0.32	0.40	0.42						
80	0.22	0.27	0.28	0.23	0.29	0.26	0.22	0.24	0.24	0.22	0.23	0.24						
85	0.17	0.19	0.19	0.18	0.20	0.19	0.17	0.16	0.15	0.14	0.14	0.16						
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						

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