

Luminaire Photograph



Light Output Ratio:	80.6%	
Luminaire Power:	8.274 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: 2023-8-7

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-1084 15R
DRIVER: 9290 028 088 350mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

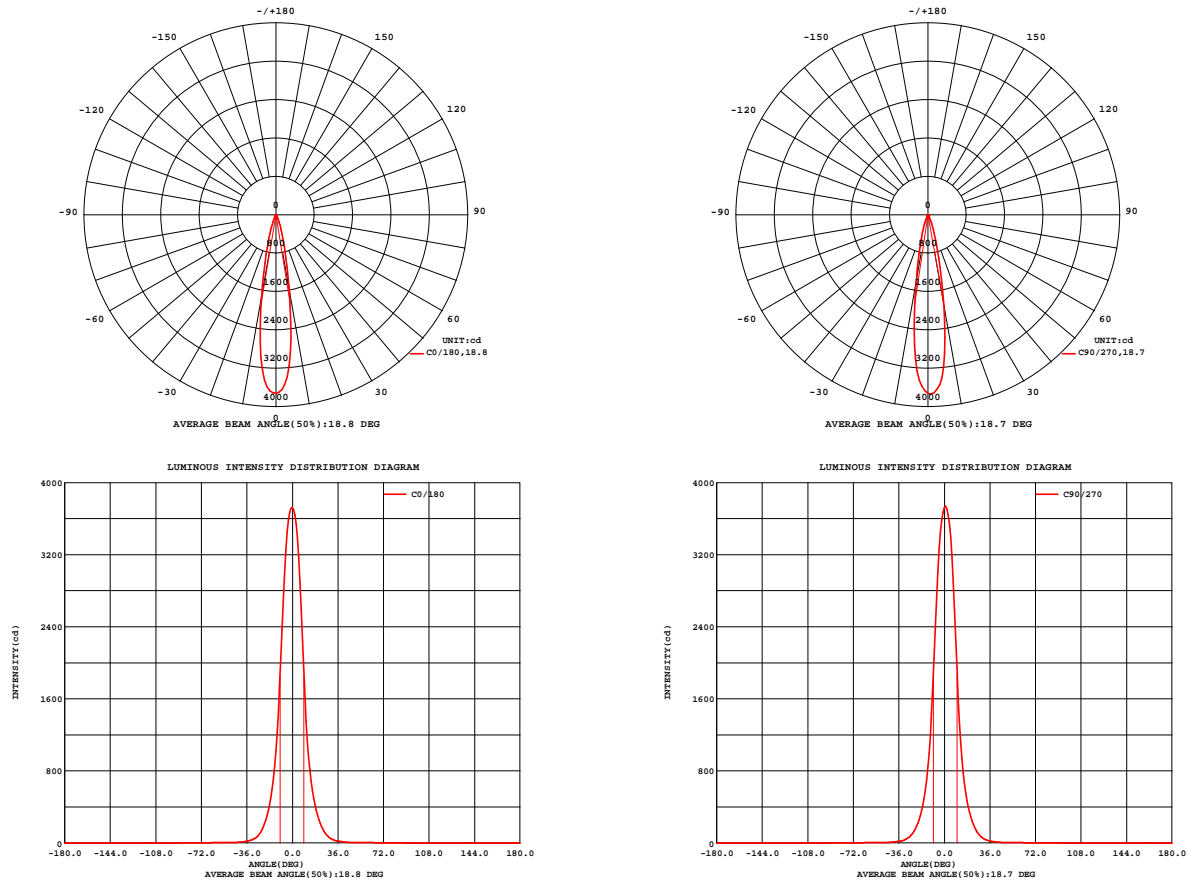


Fig. C0/C180

Fig. C90/C270

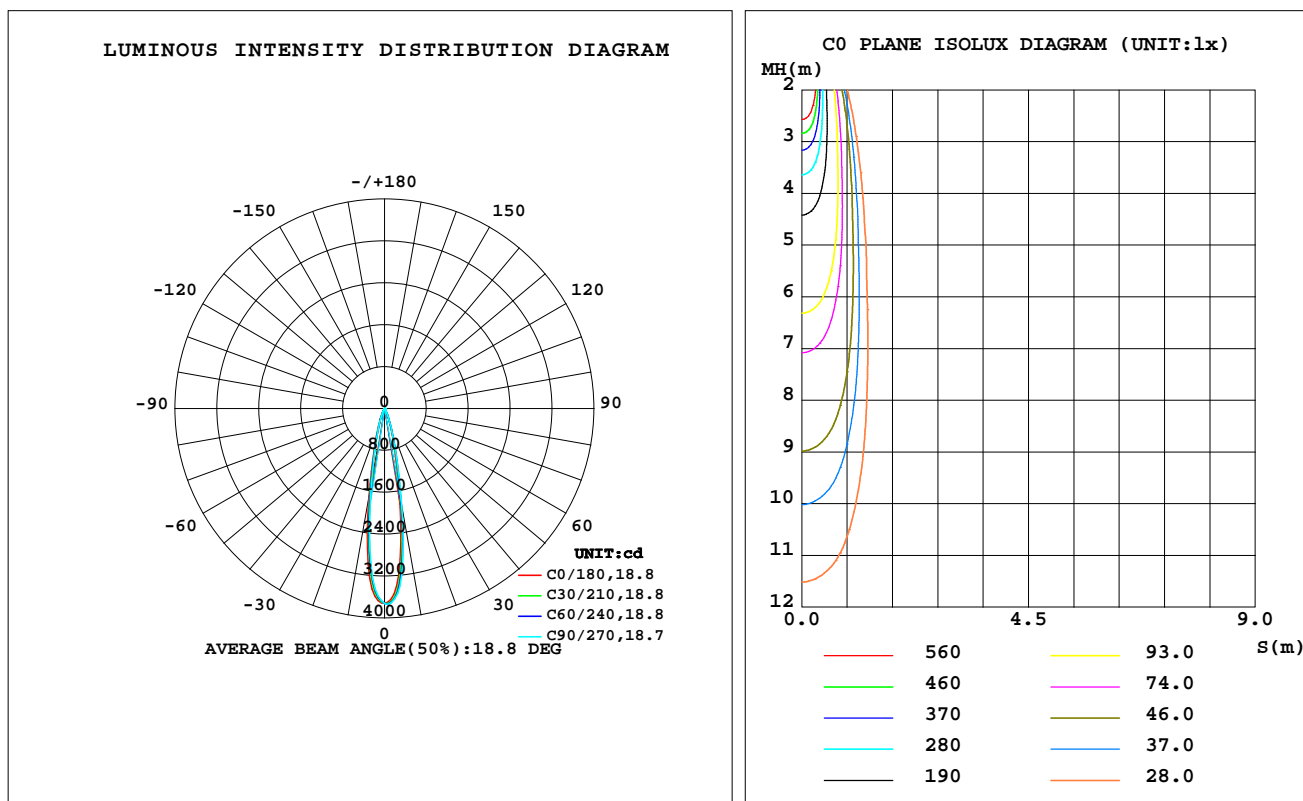
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LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.21V I:0.0398A P:8.2736W PF:0.9411 Freq:49.99Hz Lamp Flux:685.66x1 lm		
NAME: 2218.511-ACOT-96	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308070988
MFR.: RISE	SUR.: 0.001589625m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 66.78 lm/W			
MODEL	CREE	I _{max} (cd)	3739	S/MH(C0/180)	0.33
NOMINAL POWER(W)	8	LOR(%)	80.6	S/MH(C90/270)	0.30
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	552.47	η UP,DN(C0-180)	0.0,43.0
NOMINAL FLUX(lm)	685.66	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,37.6
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	220	η down(%)	80.6	CIBSE SHR MAX	0.30



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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	1614	1821	1933	1880	1750	1560	1450	1494	0- 10	253.9	253.9	46,37
20	307.3	336.6	339.3	327.6	300.8	267.7	255.0	272.1	10- 20	205.2	459.1	83.1,67
30	52.13	59.14	58.20	51.07	47.22	45.22	43.20	45.03	20- 30	62.37	521.5	94.4,76.1
40	13.12	13.88	13.65	12.82	12.06	11.43	11.27	11.97	30- 40	16.00	537.5	97.3,78.4
50	4.775	4.752	4.713	4.671	4.595	4.548	4.613	4.695	40- 50	5.437	542.9	98.3,79.2
60	3.872	3.811	3.746	3.785	3.790	3.781	3.809	3.882	50- 60	3.762	546.7	99,79.7
70	2.868	2.885	2.895	2.890	2.868	2.825	2.818	2.834	60- 70	3.367	550.0	99.6,80.2
80	1.009	1.088	1.140	1.116	1.080	0.9817	0.9311	0.9389	70- 80	2.097	552.1	99.9,80.5
90	0	0	0	0	0	0	0	0	80- 90	0.3240	552.5	100,80.6
100	0	0	0	0	0	0	0	0	90-100	0	552.5	100,80.6
110	0	0	0	0	0	0	0	0	100-110	0	552.5	100,80.6
120	0	0	0	0	0	0	0	0	110-120	0	552.5	100,80.6
130	0	0	0	0	0	0	0	0	120-130	0	552.5	100,80.6
140	0	0	0	0	0	0	0	0	130-140	0	552.5	100,80.6
150	0	0	0	0	0	0	0	0	140-150	0	552.5	100,80.6
160	0	0	0	0	0	0	0	0	150-160	0	552.5	100,80.6
170	0	0	0	0	0	0	0	0	160-170	0	552.5	100,80.6
180	0	0	0	0	0	0	0	0	170-180	0	552.5	100,80.6
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:220.21V I:0.0398A P:8.2736W PF:0.9411 Freq:49.99Hz
Lamp Flux:685.66x1 lm

NAME: 2218.511-ACOT-96

TYPE:

WEIGHT:

SPEC.: 3000K

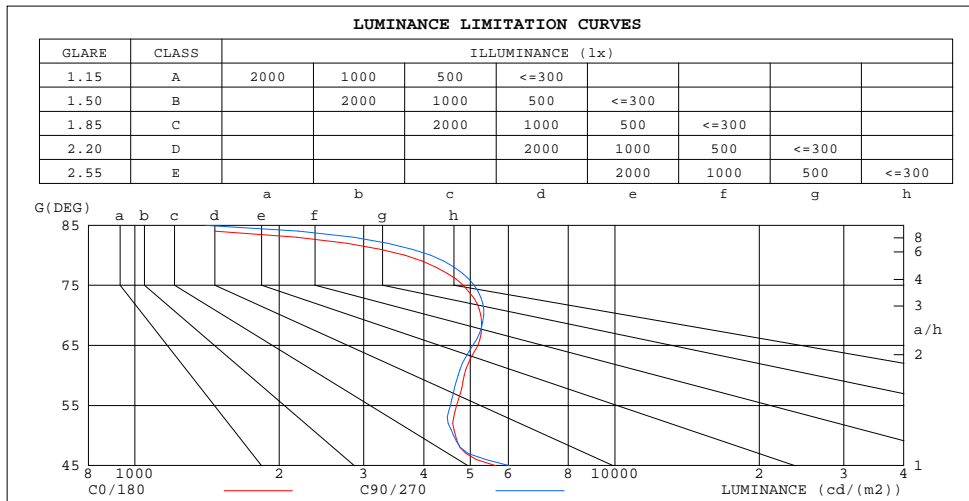
DIM.:

SERIAL No.: 2308070988

MFR.: RISE

SUR.: 0.001589625m2

Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	G(270)	
85	709	1405
80	3648	4135
75	4831	5093
70	5261	5329
65	5184	5059
60	4859	4717
55	4679	4542
50	4661	4616
45	5656	6037

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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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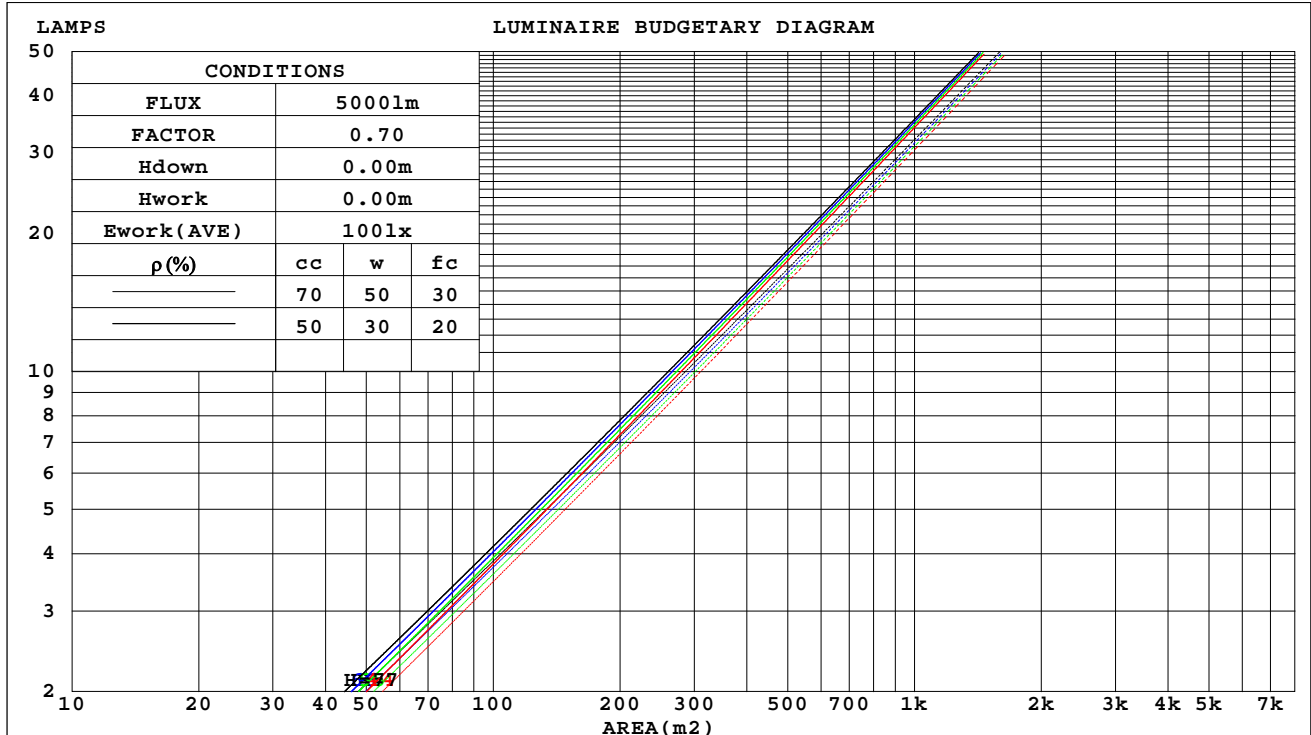
SERIAL No.: 2308070988

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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SPEC.: 3000K	DIM.:	SERIAL No.: 2308070988
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	.108	.061	.019	.103	.058	.019	.093	.053	.017	.083	.048	.015	.075	.043	.014	
2.0	.099	.054	.017	.095	.052	.016	.087	.048	.015	.079	.044	.014	.072	.041	.013	
3.0	.092	.049	.015	.088	.047	.014	.081	.044	.013	.075	.041	.013	.069	.038	.012	
4.0	.085	.044	.013	.082	.043	.013	.077	.041	.012	.071	.038	.012	.066	.036	.011	
5.0	.080	.041	.012	.077	.040	.012	.072	.038	.011	.068	.036	.011	.064	.034	.010	
6.0	.075	.038	.011	.073	.037	.011	.069	.035	.010	.065	.034	.010	.061	.032	.010	
7.0	.071	.035	.010	.069	.034	.010	.065	.033	.010	.062	.032	.009	.059	.031	.009	
8.0	.067	.033	.009	.066	.032	.009	.062	.031	.009	.060	.030	.009	.057	.029	.008	
9.0	.064	.031	.009	.063	.030	.009	.060	.030	.008	.057	.029	.008	.055	.028	.008	
10.0	.061	.029	.008	.060	.029	.008	.057	.028	.008	.055	.027	.008	.053	.027	.008	

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	.090	.090	.090	.051	.051	.051	.016	.016	.016		
1.0	.135	.127	.119	.116	.109	.103	.079	.075	.071	.046	.043	.041	.015	.014	.013		
2.0	.121	.107	.095	.103	.092	.082	.071	.064	.058	.041	.037	.034	.013	.012	.011		
3.0	.108	.091	.078	.093	.079	.067	.064	.055	.047	.037	.032	.028	.012	.010	.009		
4.0	.098	.079	.064	.084	.068	.056	.058	.047	.039	.033	.028	.023	.011	.009	.008		
5.0	.089	.069	.054	.077	.060	.047	.053	.042	.033	.031	.024	.020	.010	.008	.006		
6.0	.082	.061	.046	.070	.053	.040	.048	.037	.028	.028	.022	.017	.009	.007	.006		
7.0	.075	.054	.039	.065	.047	.034	.045	.033	.024	.026	.019	.014	.008	.006	.005		
8.0	.070	.048	.034	.060	.042	.029	.042	.029	.021	.024	.017	.012	.008	.006	.004		
9.0	.065	.044	.029	.056	.038	.026	.039	.027	.018	.023	.016	.011	.007	.005	.004		
10.0	.061	.040	.026	.053	.035	.022	.037	.024	.016	.021	.014	.010	.007	.005	.003		

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30minutes warm-up

UGR(Unified Glare Rating) Table

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NAME: 2218.511-ACOT-96					TYPE:			WEIGHT:		
SPEC.: 3000K					DIM.:			SERIAL No.: 2308070988		
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	11.1	11.7	11.3	11.9	12.0	11.2	11.8	11.4	11.9	12.1
3H	12.4	13.0	12.6	13.1	13.3	12.4	13.0	12.7	13.2	13.4
4H	13.0	13.5	13.2	13.7	13.9	13.0	13.6	13.3	13.8	14.0
6H	13.3	13.8	13.6	14.1	14.3	13.4	14.0	13.7	14.2	14.4
8H	13.3	13.9	13.6	14.1	14.3	13.5	14.0	13.8	14.3	14.5
12H	13.3	13.8	13.6	14.1	14.3	13.5	14.0	13.8	14.3	14.5
4H 2H	11.5	12.1	11.8	12.3	12.5	11.6	12.1	11.8	12.3	12.6
3H	13.1	13.6	13.4	13.8	14.1	13.1	13.6	13.4	13.9	14.1
4H	13.8	14.2	14.1	14.5	14.8	13.9	14.3	14.2	14.6	14.9
6H	14.2	14.6	14.6	14.9	15.3	14.3	14.7	14.7	15.1	15.4
8H	14.3	14.6	14.7	15.0	15.3	14.4	14.8	14.8	15.2	15.5
12H	14.2	14.6	14.6	14.9	15.3	14.4	14.8	14.8	15.1	15.5
8H 4H	14.0	14.4	14.4	14.7	15.1	14.1	14.5	14.5	14.8	15.2
6H	14.5	14.8	15.0	15.2	15.6	14.7	15.0	15.1	15.4	15.8
8H	14.6	14.9	15.1	15.3	15.8	14.8	15.1	15.2	15.5	15.9
12H	14.6	14.8	15.1	15.3	15.7	14.8	15.0	15.3	15.5	15.9
12H 4H	14.0	14.3	14.4	14.7	15.1	14.1	14.4	14.5	14.8	15.2
6H	14.5	14.8	15.0	15.2	15.7	14.7	15.0	15.1	15.4	15.8
8H	14.6	14.9	15.1	15.3	15.8	14.8	15.1	15.3	15.5	16.0
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.5 / - 0.5					+ 0.5 / - 0.5				
1.5H	+ 1.2 / - 0.6					+ 1.3 / - 0.6				
2.0H	+ 0.1 / - 0.3					+ 0.2 / - 0.2				

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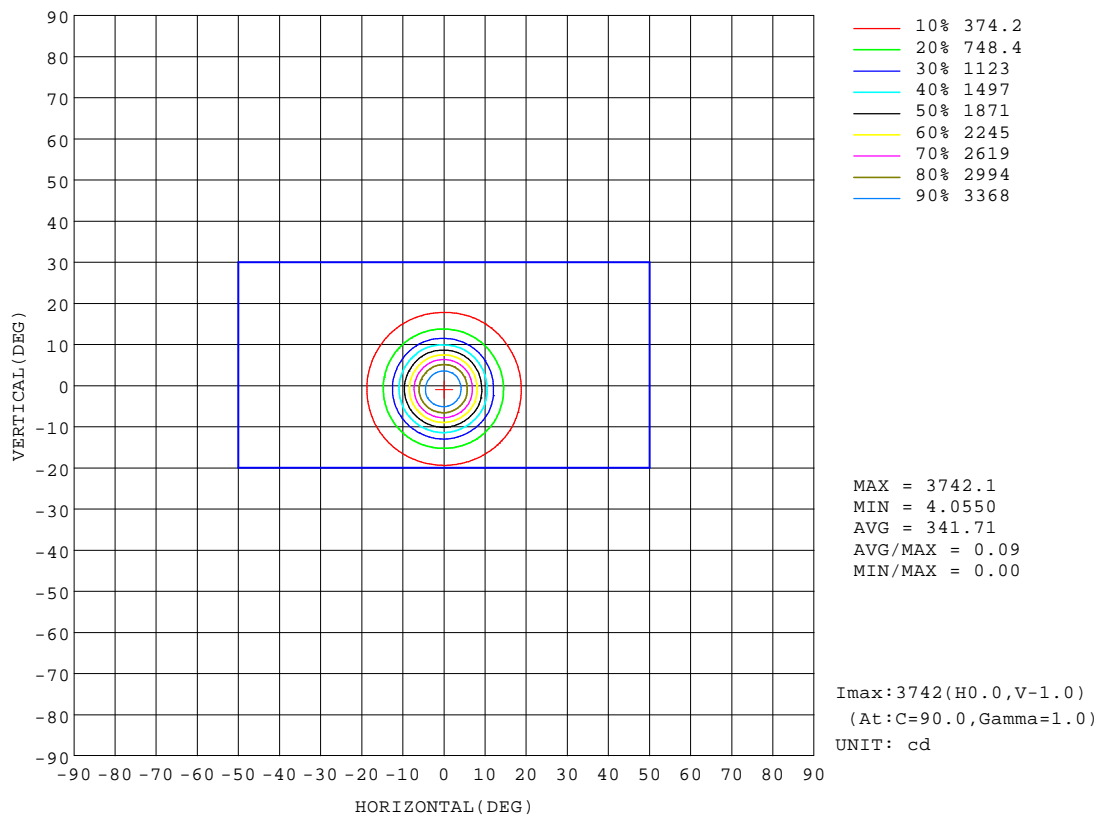
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	72	68	65	72	68	65	71	67	65	62
0.80	78	74	71	78	73	71	77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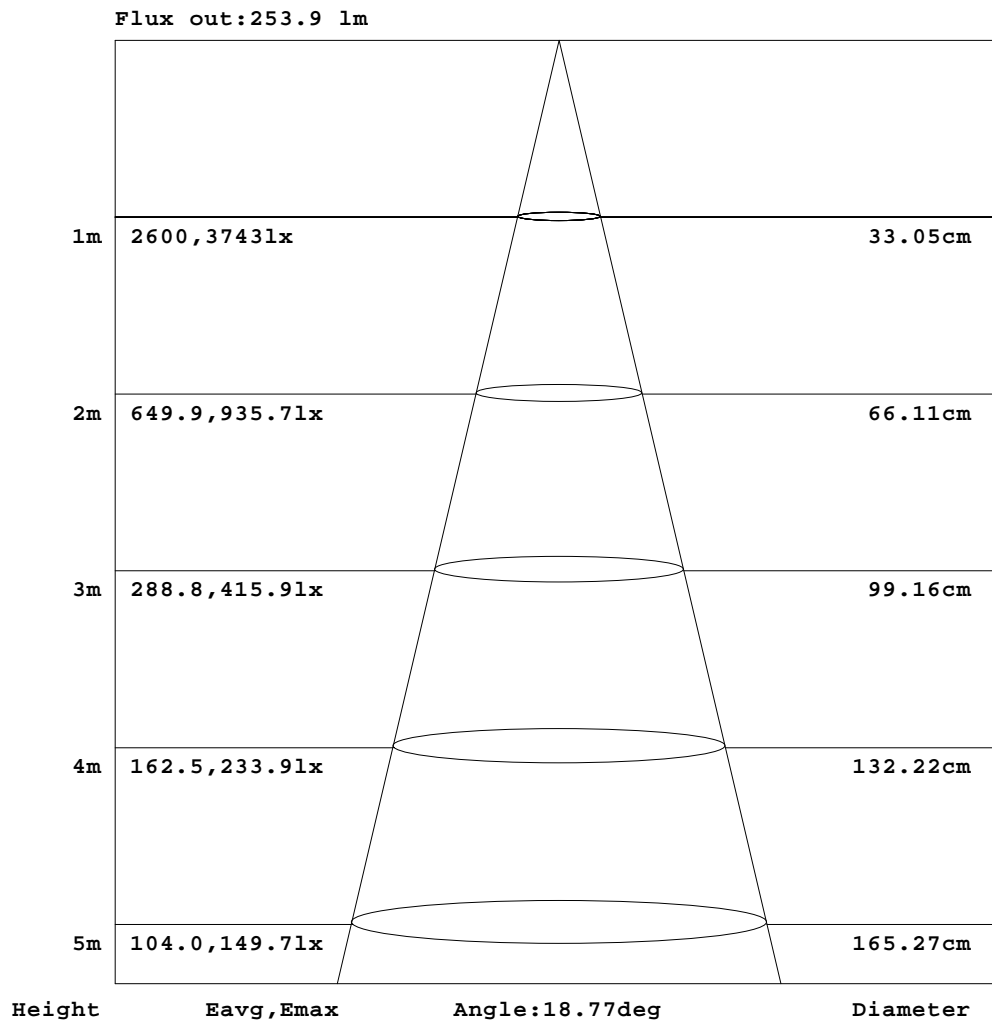


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AAI Figure

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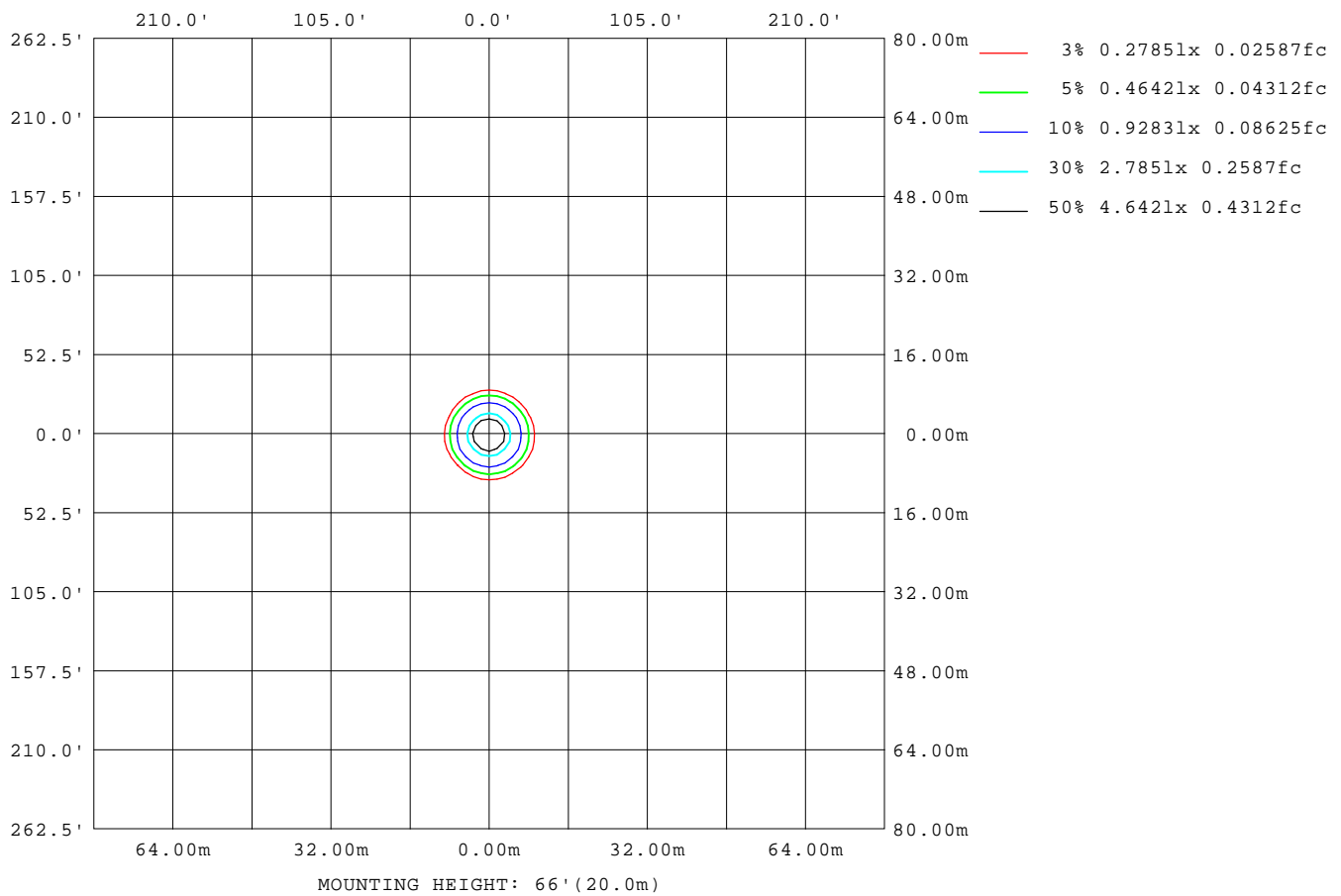
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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Operators:zoe
Test Date:2023-8-7

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-1084 15R
DRIVER:9290 028 088 350mA
30minutes warm-up

LED Avg.L Report

Test:U:220.21V I:0.0398A P:8.2736W PF:0.9411 Freq:49.99Hz Lamp Flux:685.66x1 lm		
NAME: 2218.511-ACOT-96	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308070988
MFR.: RISE	SUR.: 0.001589625m2	Shielding Angle:

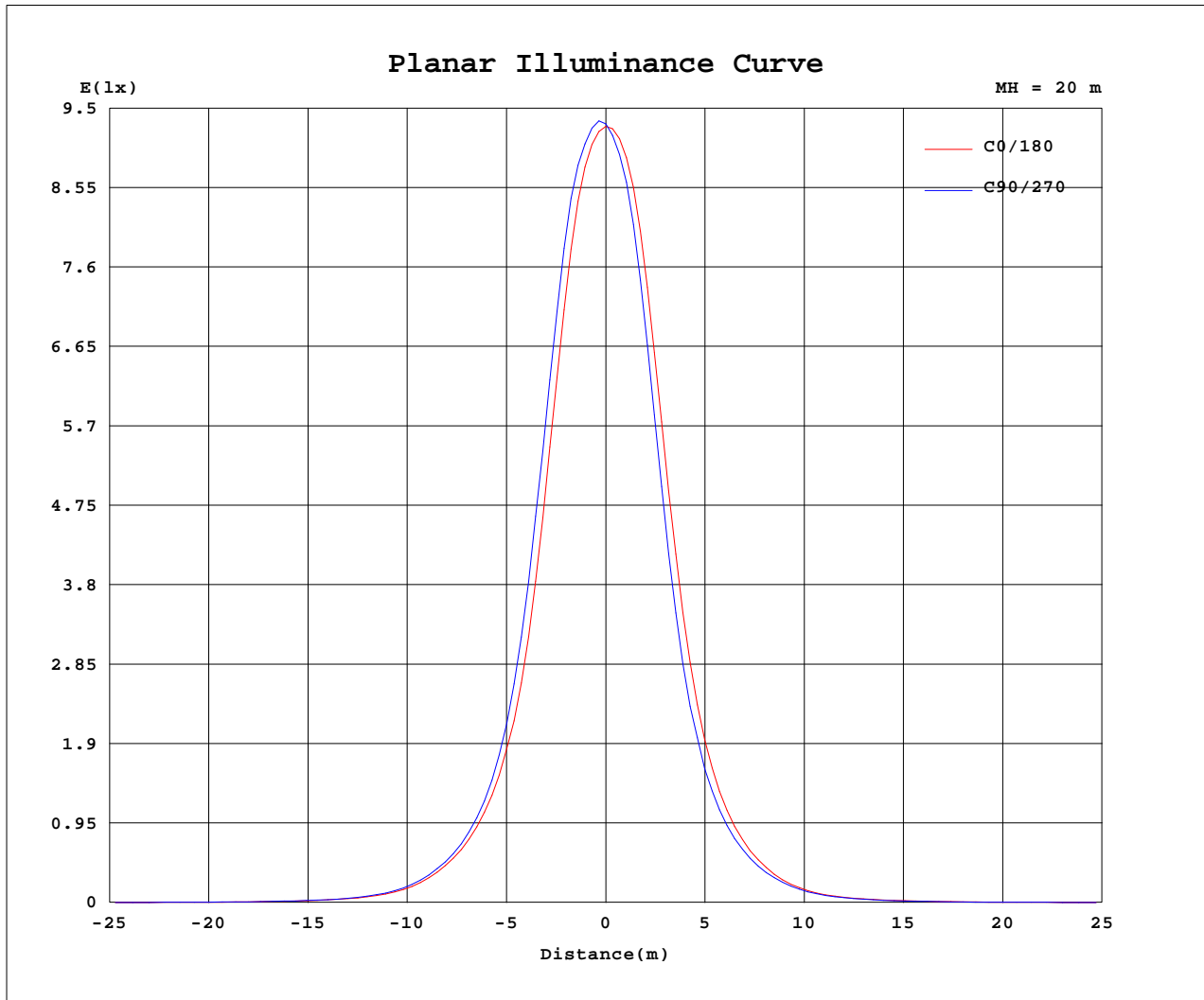
AvgL	cd/m2
L_0~180(65)av	5162
L_0~180(75)av	4914
L_0~180(85)av	895
L_90~270(65)av	5095
L_90~270(75)av	4884
L_90~270(85)av	957
L_45(65)av	5122
L_45(75)av	4878
L_45(85)av	861

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2023-8-7

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-1084 15R
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: 2023-8-7

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-1084 15R
 DRIVER: 9290 028 088 350mA
 30minutes warm-up

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.21V I:0.0398A P:8.2736W PF:0.9411 Freq:49.99Hz Lamp Flux:685.66x1 lm		
NAME: 2218.511-ACOT-96	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308070988
MFR.: RISE	SUR.: 0.001589625m2	Shielding Angle:

Table--1

UNIT: cd

C(DEC) γ (DEC)	0	30	60	90	120	150	180	210	240	270	300	330						
0	3723	3723	3723	3723	3723	3723	3723	3723	3723	3723	3723	3723						
5	3169	3292	3363	3404	3398	3350	3256	3126	3054	3009	3032	3086						
10	1614	1789	1853	1933	1901	1858	1750	1597	1524	1450	1473	1515						
15	679	743	779	784	786	754	716	653	618	592	604	628						
20	307	336	337	339	333	322	301	275	260	255	266	278						
25	130	147	148	145	135	127	119	111	109	106	110	115						
30	52.1	58.7	59.5	58.2	53.0	49.2	47.2	45.7	44.7	43.2	44.1	46.0						
35	24.8	26.8	26.8	26.3	24.7	23.3	22.5	21.7	21.3	21.0	21.7	22.5						
40	13.1	13.9	13.9	13.7	13.1	12.5	12.1	11.5	11.3	11.3	11.7	12.2						
45	6.37	6.61	6.70	6.78	6.63	6.46	6.18	5.89	5.78	5.79	5.91	6.11						
50	4.77	4.79	4.72	4.71	4.66	4.68	4.60	4.55	4.55	4.61	4.66	4.73						
55	4.28	4.25	4.16	4.14	4.14	4.17	4.14	4.14	4.16	4.19	4.25	4.29						
60	3.87	3.87	3.75	3.75	3.77	3.80	3.79	3.78	3.78	3.81	3.86	3.90						
65	3.49	3.44	3.40	3.40	3.41	3.44	3.44	3.43	3.43	3.45	3.49	3.51						
70	2.87	2.88	2.89	2.90	2.89	2.89	2.87	2.83	2.82	2.82	2.83	2.84						
75	1.99	2.04	2.07	2.09	2.08	2.07	2.05	1.98	1.95	1.93	1.92	1.94						
80	1.01	1.07	1.10	1.14	1.12	1.11	1.08	1.00	0.96	0.93	0.93	0.95						
85	0.10	0.14	0.17	0.19	0.18	0.17	0.15	0.10	0.08	0.07	0.06	0.07						
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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