

Luminaire Photograph



Light Output Ratio:	81.7%	
Luminaire Power:	8.297 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: 2023-8-11

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

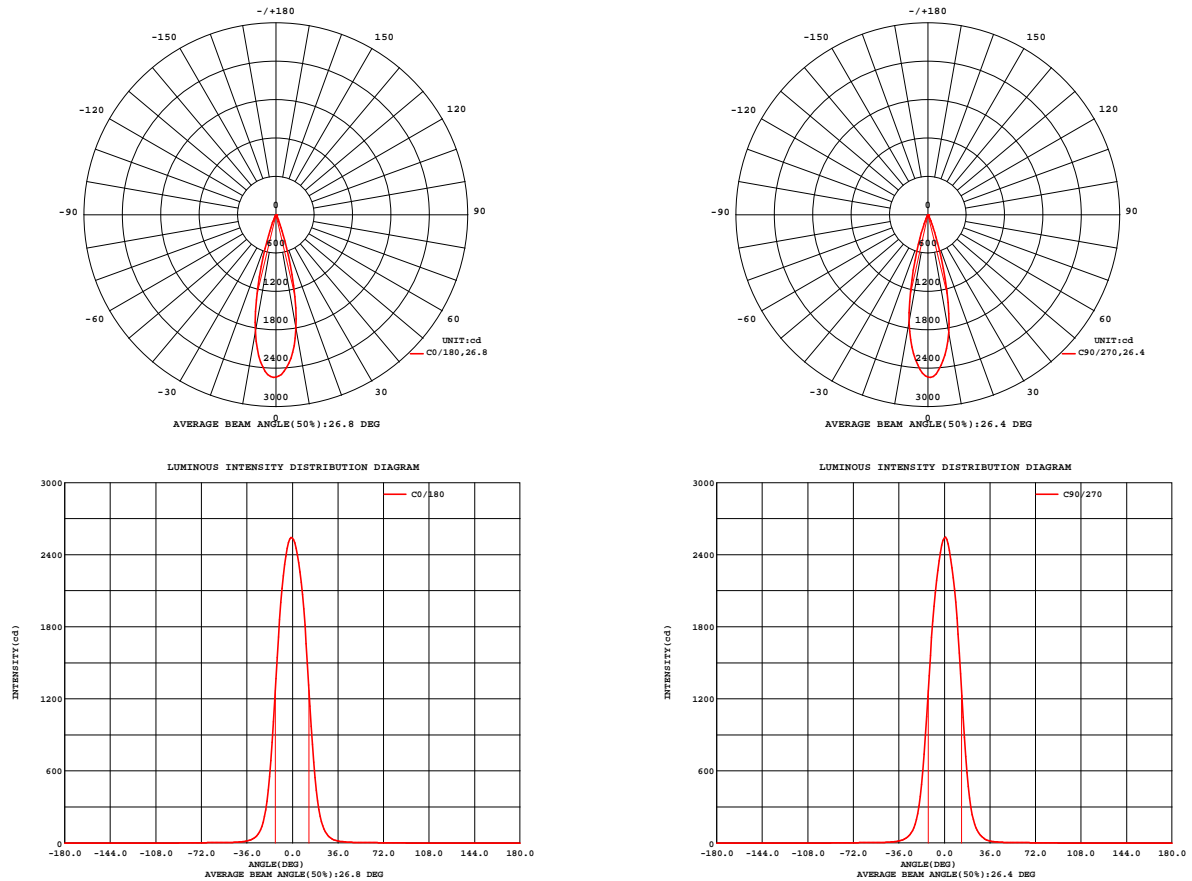


Fig. C0/C180

Fig. C90/C270

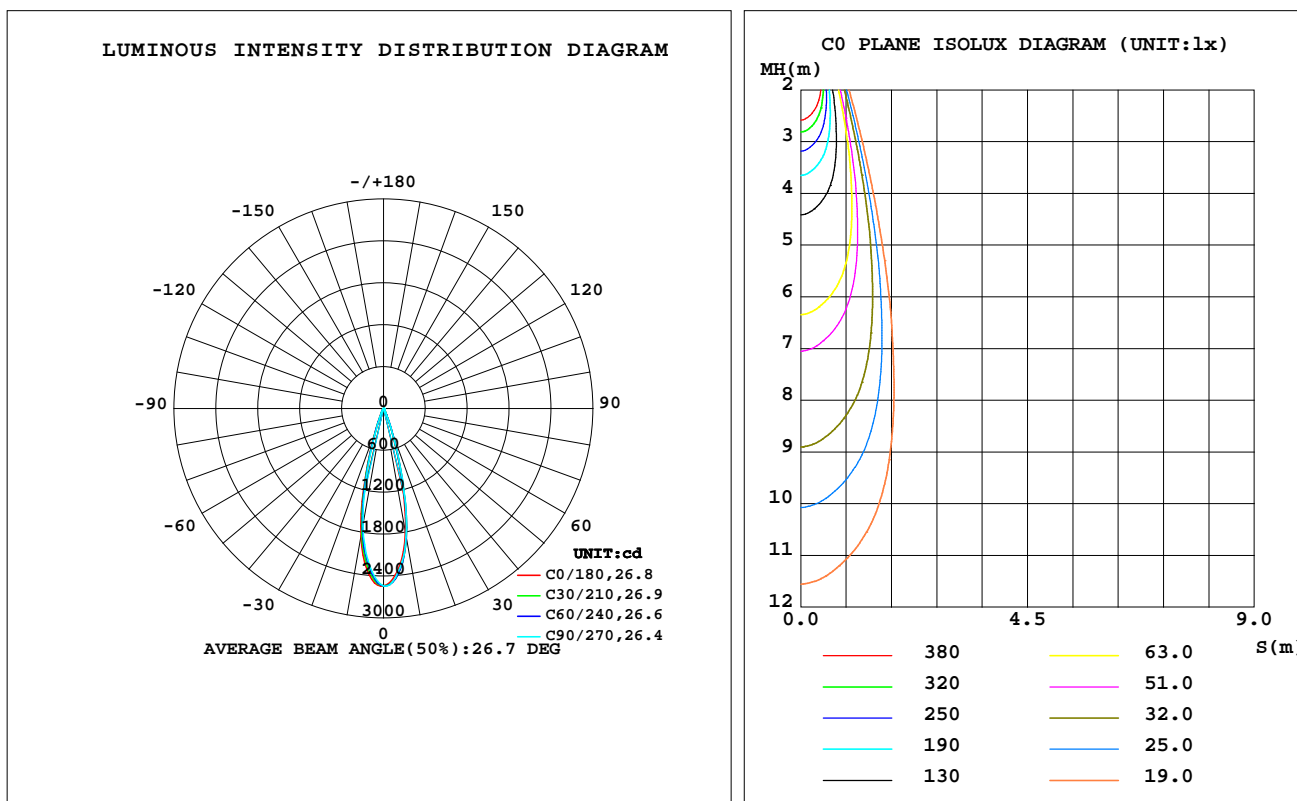
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Test Speed: HIGH
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LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.20V I:0.0400A P:8.2970W PF:0.9396 Freq:49.99Hz Lamp Flux:685.66x1 lm		
NAME: 2214.412-1-ACOT-96	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308111004
MFR.: RISE	SUR.: 0.000854865m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 67.55 lm/W
MODEL	CREE	I _{max} (cd)	2545	S/MH(C0/180)	0.43	
NOMINAL POWER(W)	8	LOR(%)	81.7	S/MH(C90/270)	0.41	
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	560.48	UP,DN(C0-180)	0.0,42.3	
NOMINAL FLUX(lm)	685.66	CIE CLASS	DIRECT	UP,DN(C180-360)	0.0,39.4	
LAMPS INSIDE	1	up(%)	0.0	CIBSE SHR NOM	0.00	
TEST VOLTAGE(V)	220	down(%)	81.7	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	1812	1879	1872	1884	1859	1784	1711	1730	0- 10	207.1	207.1	36.9,30.2
20	349.4	370.9	373.8	363.9	347.8	324.7	307.8	321.4	10- 20	265.3	472.4	84.3,68.9
30	42.85	48.33	49.02	44.09	41.65	43.03	41.91	40.29	20- 30	61.17	533.5	95.2,77.8
40	10.67	10.67	10.50	10.55	10.53	10.44	10.45	10.65	30- 40	13.40	546.9	97.6,79.8
50	4.677	4.544	4.447	4.555	4.579	4.534	4.591	4.676	40- 50	5.119	552.1	98.5,80.5
60	3.407	3.294	3.253	3.304	3.325	3.314	3.369	3.414	50- 60	3.429	555.5	99.1,81
70	2.385	2.342	2.320	2.325	2.330	2.333	2.357	2.385	60- 70	2.866	558.4	99.6,81.4
80	1.025	1.046	1.027	1.005	0.9443	0.9564	0.9068	1.004	70- 80	1.763	560.1	99.9,81.7
90	0	0	0	0	0	0	0	0	80- 90	0.3678	560.5	100,81.7
100	0	0	0	0	0	0	0	0	90-100	0	560.5	100,81.7
110	0	0	0	0	0	0	0	0	100-110	0	560.5	100,81.7
120	0	0	0	0	0	0	0	0	110-120	0	560.5	100,81.7
130	0	0	0	0	0	0	0	0	120-130	0	560.5	100,81.7
140	0	0	0	0	0	0	0	0	130-140	0	560.5	100,81.7
150	0	0	0	0	0	0	0	0	140-150	0	560.5	100,81.7
160	0	0	0	0	0	0	0	0	150-160	0	560.5	100,81.7
170	0	0	0	0	0	0	0	0	160-170	0	560.5	100,81.7
180	0	0	0	0	0	0	0	0	170-180	0	560.5	100,81.7
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:220.20V I:0.0400A P:8.2970W PF:0.9396 Freq:49.99Hz
Lamp Flux:685.66x1 lm

NAME: 2214.412-1-ACOT-96

TYPE:

WEIGHT:

SPEC.: 3000K

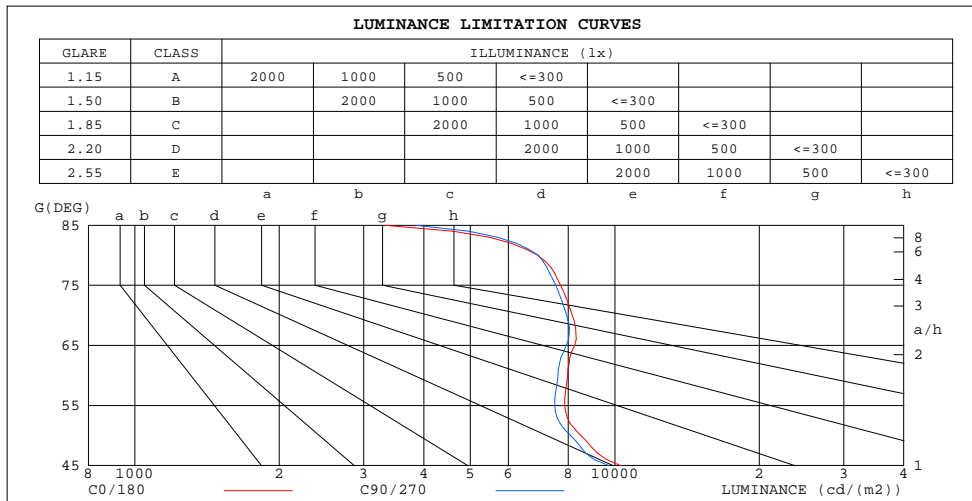
DIM.:

SERIAL No.: 2308111004

MFR.: RISE

SUR.: 0.000854865m2

Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	G(270)	G(180)/G(270)
85	3328	3864
80	6899	6918
75	7709	7529
70	8154	7936
65	8244	7925
60	7968	7611
55	7867	7501
50	8508	8093
45	10299	9737

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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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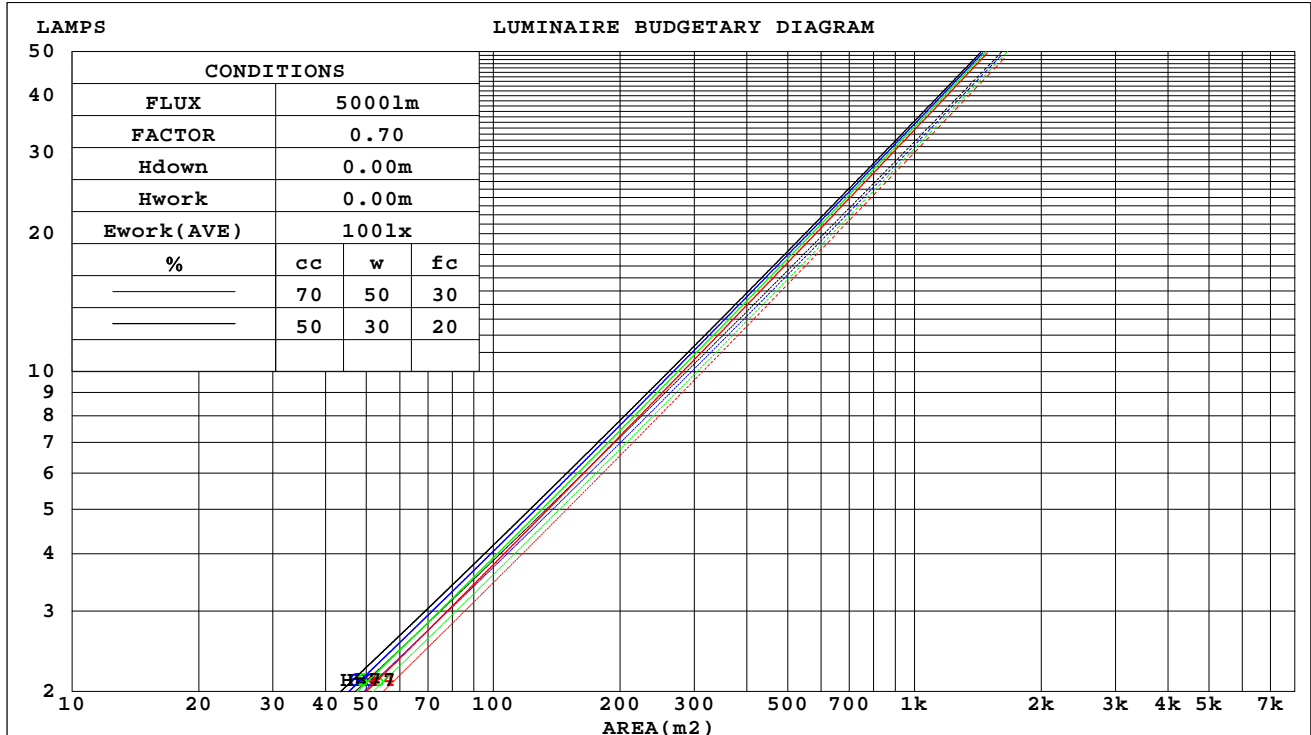
SERIAL No.: 2308111004

MFR.: RISE

SUR.: 0.000854865m2

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.: 2308111004
MFR.: RISE	SUR.: 0.000854865m2	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	.112	.064	.020	.107	.061	.019	.097	.056	.018	.087	.050	.016	.079	.046	.015	
2.0	.104	.057	.017	.099	.055	.017	.091	.050	.016	.083	.047	.015	.076	.043	.014	
3.0	.096	.051	.015	.092	.049	.015	.085	.046	.014	.079	.043	.013	.073	.040	.013	
4.0	.090	.047	.014	.087	.045	.013	.081	.043	.013	.075	.040	.012	.070	.038	.012	
5.0	.084	.043	.012	.082	.042	.012	.077	.040	.012	.072	.038	.011	.068	.036	.011	
6.0	.079	.040	.011	.077	.039	.011	.073	.037	.011	.069	.036	.011	.065	.034	.010	
7.0	.075	.037	.011	.073	.036	.010	.070	.035	.010	.066	.034	.010	.063	.033	.010	
8.0	.072	.035	.010	.070	.034	.010	.067	.033	.009	.063	.032	.009	.061	.031	.009	
9.0	.068	.033	.009	.067	.033	.009	.064	.032	.009	.061	.031	.009	.059	.030	.009	
10.0	.065	.031	.009	.064	.031	.009	.061	.030	.008	.059	.029	.008	.057	.029	.008	

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	.156	.156	.156	.133	.133	.133	.091	.091	.091	.052	.052	.052	.017	.017	.017	
1.0	.138	.129	.121	.118	.111	.104	.081	.076	.072	.046	.044	.042	.015	.014	.014	
2.0	.123	.108	.096	.105	.093	.083	.072	.065	.058	.042	.038	.034	.013	.012	.011	
3.0	.110	.093	.078	.095	.080	.068	.065	.055	.048	.038	.032	.028	.012	.011	.009	
4.0	.100	.080	.065	.086	.069	.056	.059	.048	.040	.034	.028	.023	.011	.009	.008	
5.0	.091	.070	.054	.078	.060	.047	.054	.042	.033	.031	.025	.020	.010	.008	.006	
6.0	.084	.062	.046	.072	.053	.040	.050	.037	.028	.029	.022	.017	.009	.007	.006	
7.0	.078	.055	.039	.067	.048	.034	.046	.033	.024	.027	.020	.014	.009	.006	.005	
8.0	.072	.049	.034	.062	.043	.029	.043	.030	.021	.025	.018	.012	.008	.006	.004	
9.0	.068	.045	.029	.058	.039	.026	.040	.027	.018	.024	.016	.011	.008	.005	.004	
10.0	.064	.041	.026	.055	.035	.022	.038	.025	.016	.022	.015	.010	.007	.005	.003	

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30minutes warm-up

UGR(Unified Glare Rating) Table

Test:U:220.20V I:0.0400A P:8.2970W PF:0.9396 Freq:49.99Hz Lamp Flux:685.66x1 lm										
NAME: 2214.412-1-ACOT-96					TYPE:			WEIGHT:		
SPEC.: 3000K					DIM.:			SERIAL No.: 2308111004		
MFR.: RISE					SUR.: 0.000854865m2			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	12.0	12.7	12.2	12.8	13.0	12.0	12.7	12.2	12.8	13.0
3H	13.3	13.9	13.5	14.1	14.3	13.2	13.8	13.5	14.0	14.2
4H	13.9	14.4	14.1	14.6	14.8	13.8	14.4	14.0	14.6	14.8
6H	14.3	14.8	14.6	15.1	15.3	14.2	14.8	14.5	15.0	15.2
8H	14.4	14.9	14.7	15.2	15.4	14.3	14.9	14.6	15.1	15.4
12H	14.4	14.9	14.7	15.2	15.5	14.4	14.9	14.7	15.1	15.4
4H 2H	12.4	13.0	12.7	13.2	13.4	12.4	13.0	12.7	13.2	13.4
3H	14.0	14.5	14.3	14.7	15.0	13.9	14.4	14.2	14.7	14.9
4H	14.7	15.1	15.0	15.4	15.7	14.6	15.1	14.9	15.3	15.6
6H	15.2	15.6	15.6	16.0	16.3	15.1	15.5	15.5	15.9	16.2
8H	15.4	15.8	15.8	16.1	16.5	15.3	15.7	15.7	16.0	16.4
12H	15.4	15.8	15.8	16.1	16.5	15.4	15.7	15.8	16.1	16.5
8H 4H	14.9	15.3	15.3	15.6	16.0	14.8	15.2	15.2	15.6	15.9
6H	15.6	15.9	16.0	16.3	16.7	15.5	15.8	15.9	16.2	16.6
8H	15.8	16.1	16.3	16.5	16.9	15.7	16.0	16.2	16.4	16.9
12H	15.9	16.1	16.4	16.6	17.0	15.8	16.1	16.3	16.5	17.0
12H 4H	14.9	15.3	15.3	15.6	16.0	14.8	15.2	15.2	15.6	15.9
6H	15.6	15.9	16.1	16.3	16.8	15.6	15.8	16.0	16.2	16.7
8H	15.9	16.1	16.3	16.6	17.0	15.8	16.1	16.3	16.5	17.0
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.4 / - 0.4					+ 0.4 / - 0.4				
1.5H	+ 0.8 / - 0.4					+ 0.9 / - 0.4				
2.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.2				

CIE Pub.117, 685.7 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -1.3)
Area: 0.000854865 m2

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UTILIZATION FACTORS TABLE

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MFR.: RISE	SUR.: 0.000854865m2	Shielding Angle:

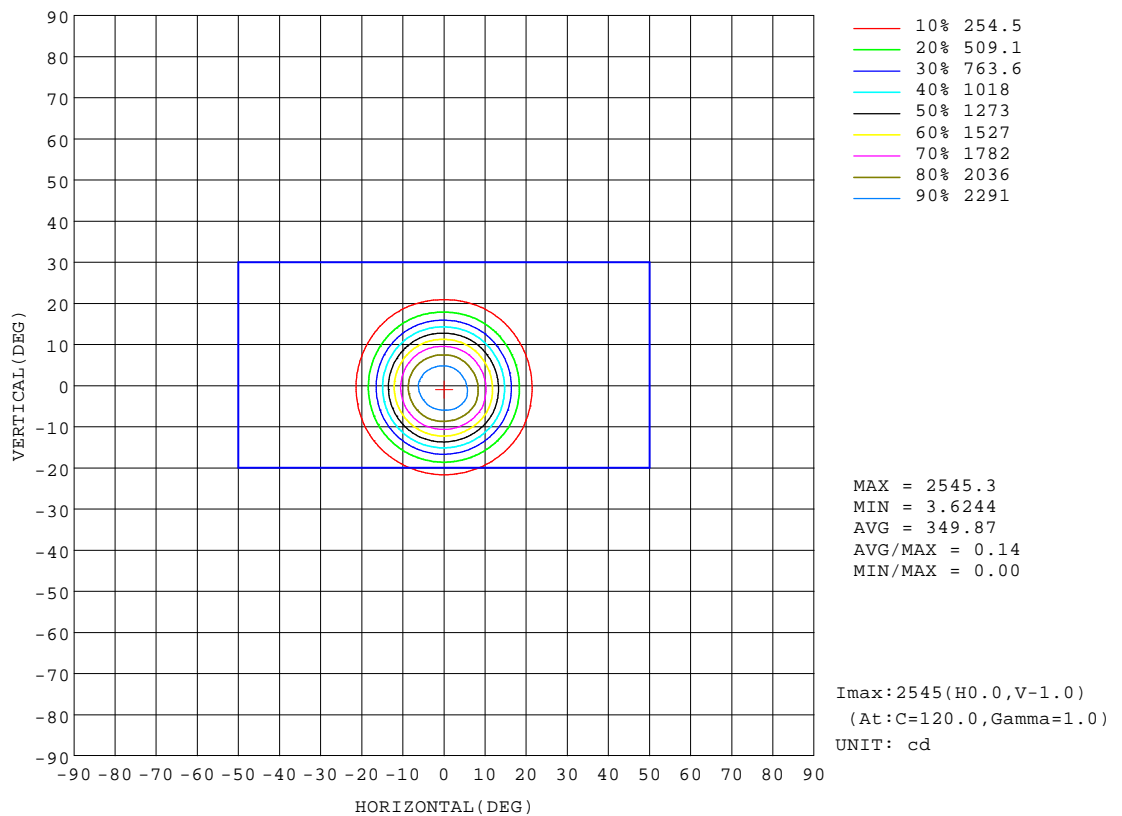
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	74	69	66	73	69	66	73	68	66	63
0.80	79	75	72	79	75	72	78	74	72	69
1.00	83	78	76	82	78	75	81	78	75	72
1.25	85	82	79	85	81	79	83	80	78	75
1.50	88	84	81	87	83	81	85	82	80	77
2.00	89	86	84	88	85	83	86	84	82	78
2.50	91	88	85	89	87	85	87	85	83	78
3.00	92	89	87	90	88	86	88	86	84	79
4.00	93	91	90	92	90	89	89	87	86	81
5.00	94	93	91	93	91	90	89	88	87	81
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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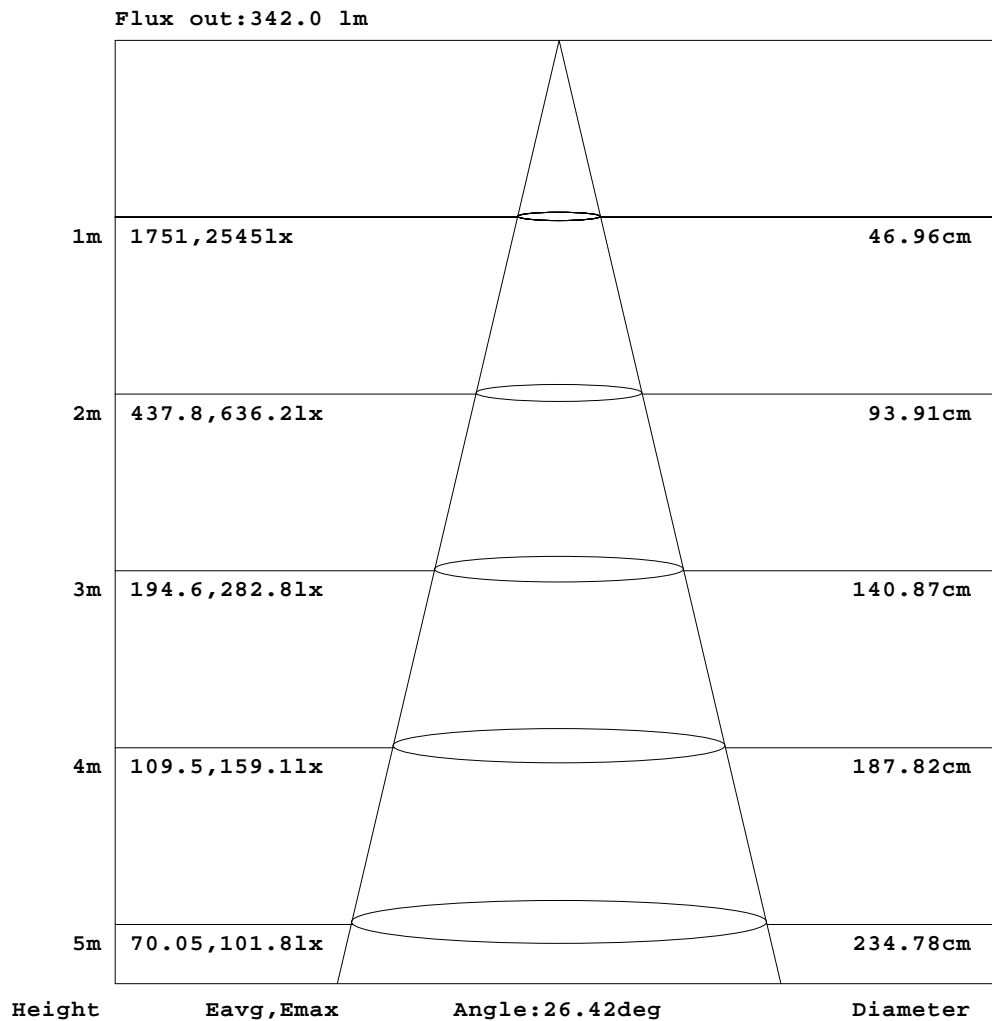


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AAI Figure

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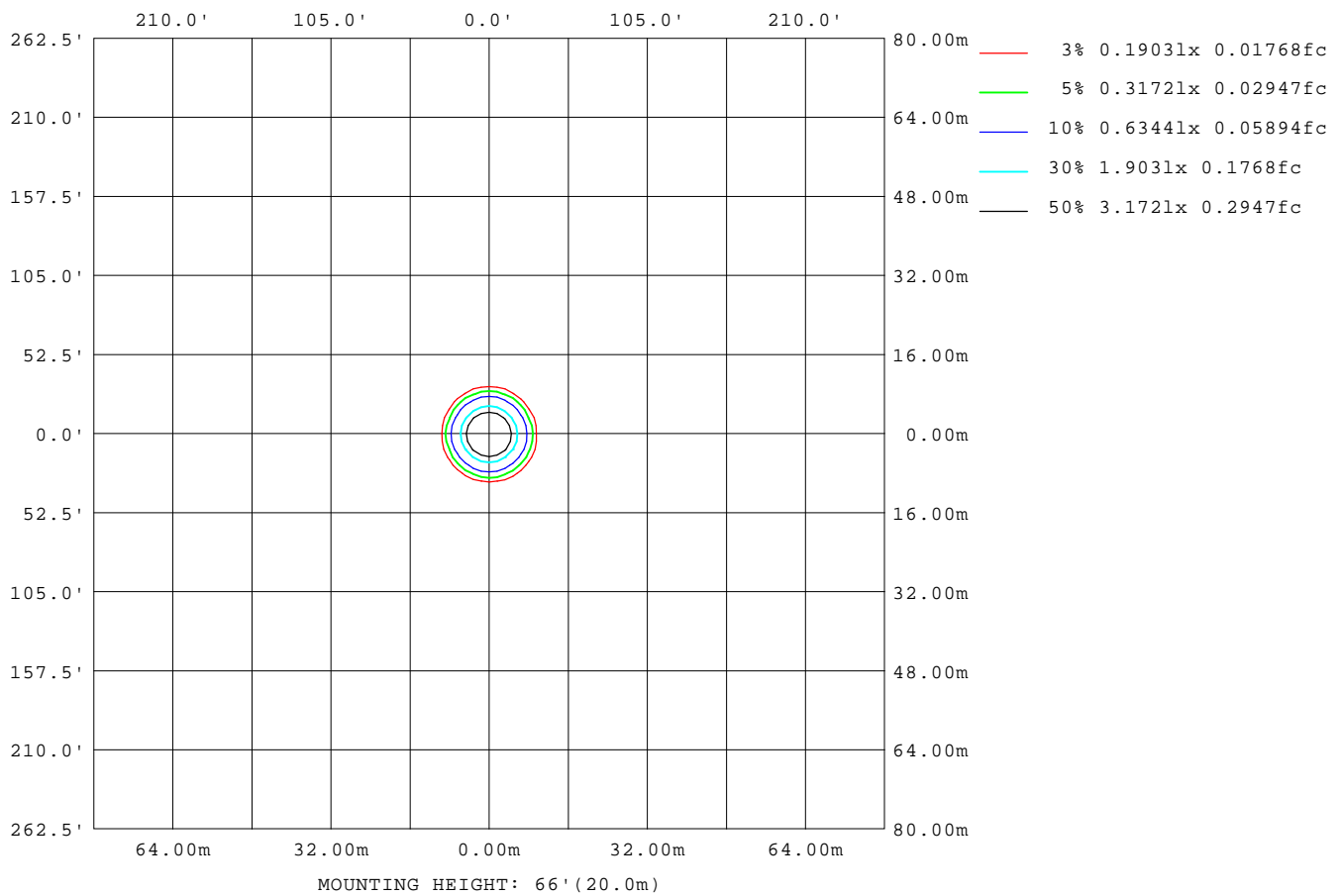
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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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

LED Avg.L Report

Test:U:220.20V I:0.0400A P:8.2970W PF:0.9396 Freq:49.99Hz Lamp Flux:685.66x1 lm		
NAME: 2214.412-1-ACOT-96	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308111004
MFR.: RISE	SUR.: 0.000854865m2	Shielding Angle:

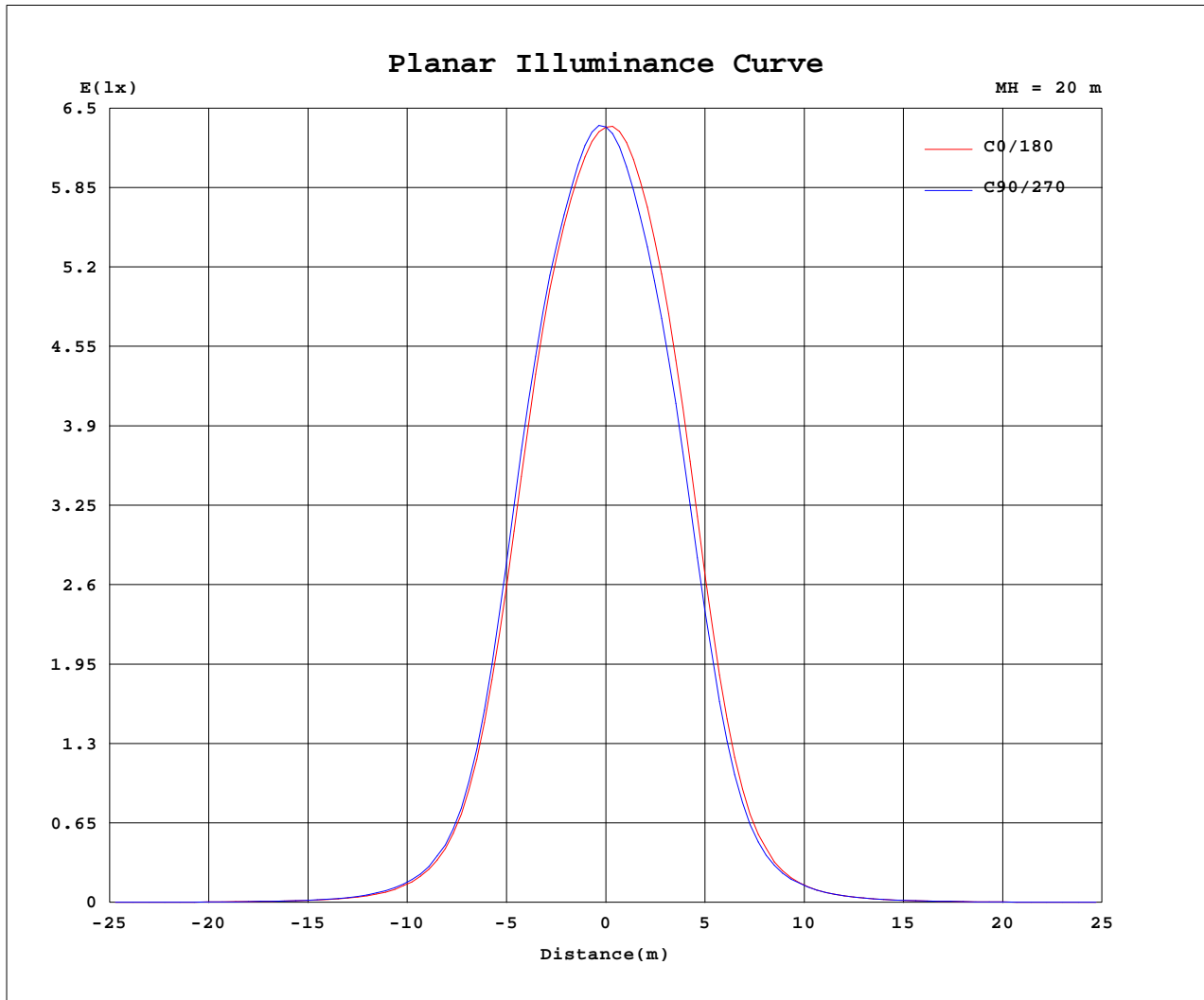
AvgL	cd/m2
L_0~180(65)av	8184
L_0~180(75)av	7580
L_0~180(85)av	2781
L_90~270(65)av	8067
L_90~270(75)av	7542
L_90~270(85)av	2668
L_45(65)av	8124
L_45(75)av	7546
L_45(85)av	3468

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2023-8-11

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: 2023-8-11

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:220.20V I:0.0400A P:8.2970W PF:0.9396 Freq:49.99Hz Lamp Flux:685.66x1 lm		
NAME: 2214.412-1-ACOT-96	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308111004
MFR.: RISE	SUR.: 0.000854865m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	2539	2539	2539	2539	2539	2539	2539	2539	2539	2539	2539	2539						
5	2332	2389	2386	2362	2372	2380	2388	2346	2293	2269	2276	2285						
10	1812	1879	1879	1872	1893	1875	1859	1811	1757	1711	1723	1736						
15	971	1034	1036	1047	1051	1035	1007	957	927	896	906	915						
20	349	372	370	374	367	361	348	328	322	308	319	324						
25	116	126	127	126	121	116	110	107	107	103	107	106						
30	42.8	47.5	49.1	49.0	46.0	42.2	41.6	43.0	43.1	41.9	41.6	38.9						
35	19.0	20.3	19.9	20.4	19.6	19.2	19.3	19.1	19.5	18.9	19.3	18.1						
40	10.7	10.8	10.6	10.5	10.5	10.6	10.5	10.4	10.5	10.4	10.8	10.5						
45	6.23	6.14	5.92	5.89	6.05	6.21	6.19	6.09	6.10	6.12	6.53	6.23						
50	4.68	4.62	4.47	4.45	4.52	4.59	4.58	4.53	4.54	4.59	4.68	4.67						
55	3.86	3.76	3.67	3.68	3.70	3.80	3.77	3.72	3.78	3.82	3.84	3.89						
60	3.41	3.33	3.25	3.25	3.28	3.33	3.33	3.30	3.33	3.37	3.40	3.43						
65	2.98	2.92	2.87	2.86	2.89	2.92	2.93	2.93	2.95	2.97	2.99	3.01						
70	2.38	2.36	2.33	2.32	2.32	2.33	2.33	2.32	2.34	2.36	2.38	2.39						
75	1.71	1.70	1.67	1.67	1.65	1.65	1.65	1.64	1.66	1.67	1.69	1.70						
80	1.02	1.06	1.04	1.03	1.01	1.00	0.94	0.97	0.94	0.91	0.99	1.02						
85	0.25	0.35	0.34	0.29	0.31	0.26	0.17	0.17	0.16	0.11	0.19	0.24						
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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Operators:zoe
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