

Luminaire Photograph



Light Output Ratio:	62.2%	
Luminaire Power:	13.68 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.50	fine grid method.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: zoe
Test Date: 2024-8-7

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: BXRE-30G1000-A-83 Ra:90
LENS: PM-1082A 24R
DRIVER: IT FIT 20/200-240/500 CS 350mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

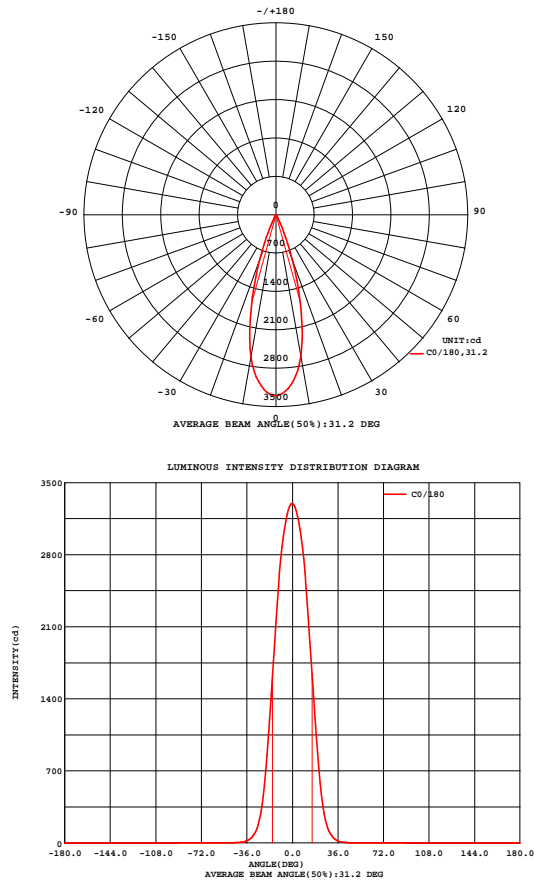


Fig. C0/C180

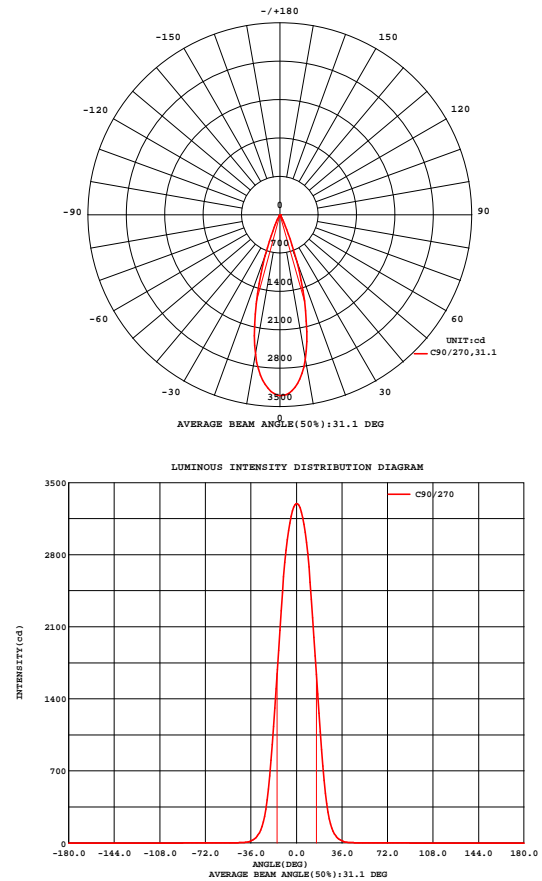


Fig. C90/C270

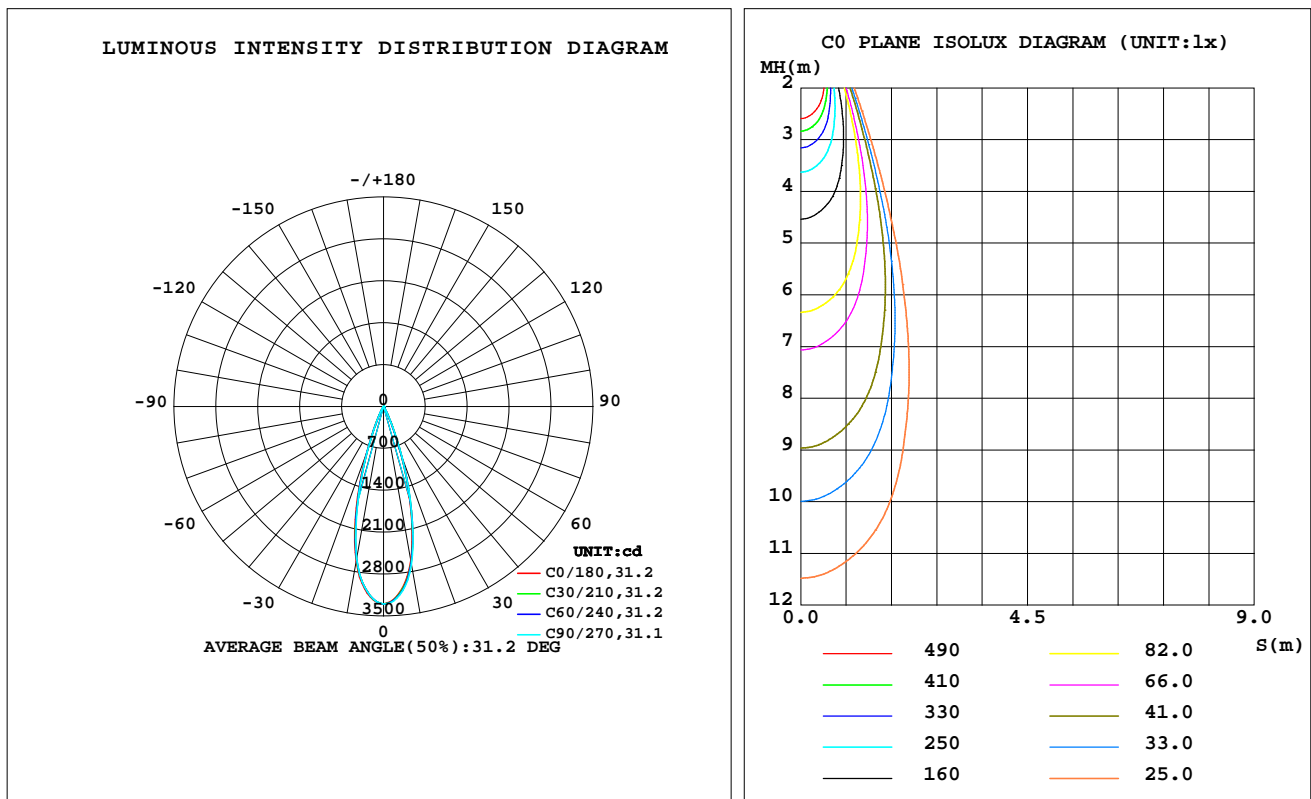
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2024-8-7

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Humidity:65.0%
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30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.19V I:0.0640A P:13.680W PF:0.9689 Freq:49.99Hz Lamp Flux:1490.38x1 lm		
NAME: 2318.112-ACOT-70	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2408070991
MFR.: RISE	SUR.: 0.001734065m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 67.77 lm/W
MODEL	Bridgelux	I _{max} (cd)	3297	S/MH(C0/180)	0.50	
NOMINAL POWER(W)	14	LOR(%)	62.2	S/MH(C90/270)	0.49	
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	927.10	UP,DN(C0-180)	0.0,31.8	
NOMINAL FLUX(lm)	1490.38	CIE CLASS	DIRECT	UP,DN(C180-360)	0.0,30.4	
LAMPS INSIDE	1	up(%)	0.0	CIBSE SHR NOM	0.50	
TEST VOLTAGE(V)	220	down(%)	62.2	CIBSE SHR MAX	0.50	



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ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

	C0	C45	C90	C135	C180	C225	C270	C315		zone	total	%lum,lamp
10	2624	2657	2680	2674	2636	2599	2586	2600	0- 10	283.3	283.3	30.6,19
20	878.8	899.9	906.9	879.9	854.2	820.1	803.5	829.0	10- 20	470.0	753.2	81.2,50.5
30	90.01	92.34	89.88	89.39	85.58	83.33	81.77	85.06	20- 30	150.4	903.7	97.5,60.6
40	6.757	7.104	7.104	7.270	7.100	7.061	6.610	6.440	30- 40	20.07	923.7	99.6,62
50	1.223	1.251	1.280	1.379	1.560	1.354	1.235	1.258	40- 50	2.747	926.5	99.9,62.2
60	0.1699	0.1549	0.1610	0.1684	0.1693	0.1697	0.1738	0.1657	50- 60	0.3939	926.9	100,62.2
70	0.0820	0.0700	0.0788	0.0770	0.0810	0.0768	0.0853	0.0747	60- 70	0.1110	927.0	100,62.2
80	0.0485	0.0427	0.0751	0.0529	0.0521	0.0434	0.0633	0.0440	70- 80	0.0653	927.1	100,62.2
90	0	0	0	0	0	0	0	0	80- 90	0.0351	927.1	100,62.2
100	0	0	0	0	0	0	0	0	90-100	0	927.1	100,62.2
110	0	0	0	0	0	0	0	0	100-110	0	927.1	100,62.2
120	0	0	0	0	0	0	0	0	110-120	0	927.1	100,62.2
130	0	0	0	0	0	0	0	0	120-130	0	927.1	100,62.2
140	0	0	0	0	0	0	0	0	130-140	0	927.1	100,62.2
150	0	0	0	0	0	0	0	0	140-150	0	927.1	100,62.2
160	0	0	0	0	0	0	0	0	150-160	0	927.1	100,62.2
170	0	0	0	0	0	0	0	0	160-170	0	927.1	100,62.2
180	0	0	0	0	0	0	0	0	170-180	0	927.1	100,62.2
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:220.19V I:0.0640A P:13.680W PF:0.9689 Freq:49.99Hz
Lamp Flux:1490.38x1 lm

NAME: 2318.112-ACOT-70

TYPE:

WEIGHT:

SPEC.: 3000K

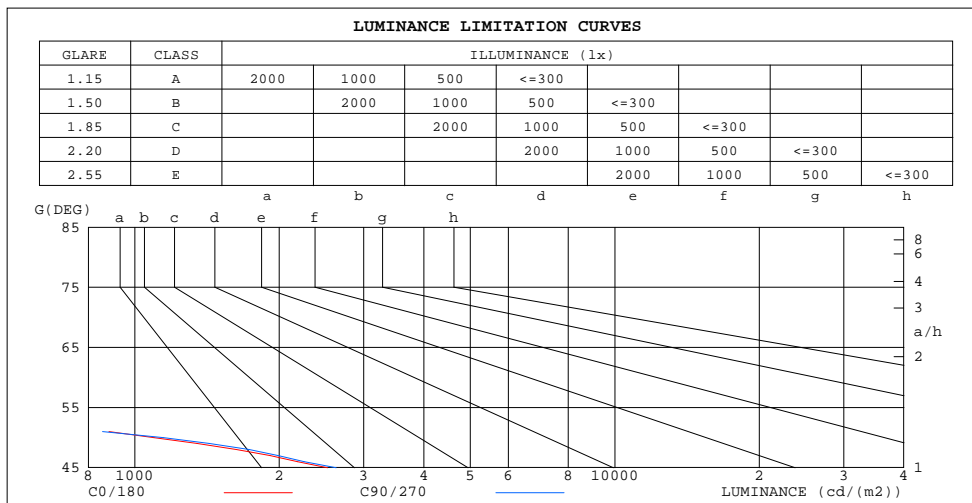
DIM.:

SERIAL No.: 2408070991

MFR.: RISE

SUR.: 0.001734065m2

Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	168	483
80	161	249
75	141	164
70	138	133
65	152	142
60	196	186
55	296	289
50	1097	1148
45	2521	2628

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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.: 3000K

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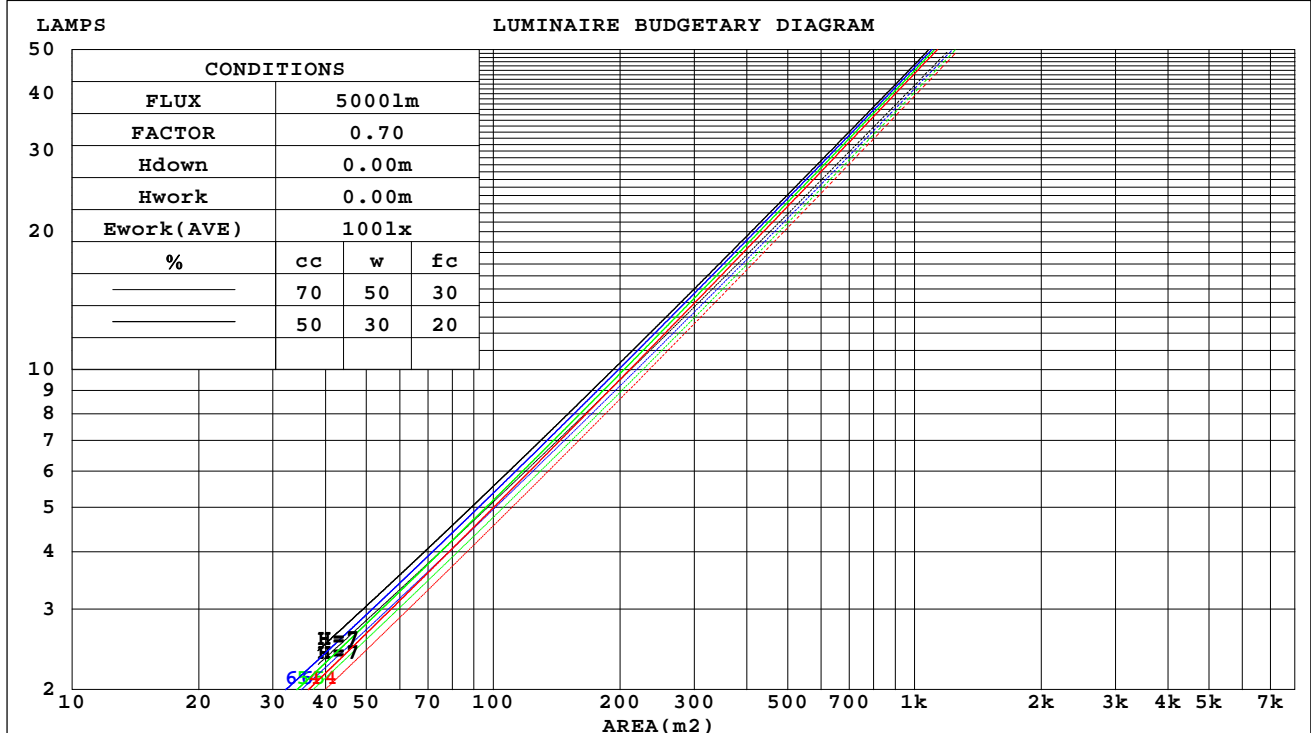
SERIAL No.: 2408070991

MFR.: RISE

SUR.: 0.001734065m2

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.: 2408070991
MFR.: RISE	SUR.: 0.001734065m2	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	.085	.048	.015	.081	.046	.015	.073	.042	.013	.066	.038	.012	.060	.035	.011	
2.0	.079	.043	.013	.075	.042	.013	.069	.038	.012	.063	.035	.011	.058	.033	.010	
3.0	.074	.039	.012	.071	.038	.011	.065	.035	.011	.061	.033	.010	.056	.031	.010	
4.0	.069	.036	.011	.067	.035	.010	.062	.033	.010	.058	.031	.009	.054	.029	.009	
5.0	.065	.033	.010	.063	.032	.009	.059	.031	.009	.056	.029	.009	.052	.028	.008	
6.0	.062	.031	.009	.060	.030	.009	.057	.029	.008	.054	.028	.008	.051	.027	.008	
7.0	.059	.029	.008	.057	.029	.008	.054	.027	.008	.052	.027	.008	.049	.026	.008	
8.0	.056	.027	.008	.055	.027	.008	.052	.026	.007	.050	.025	.007	.048	.024	.007	
9.0	.054	.026	.007	.053	.026	.007	.050	.025	.007	.048	.024	.007	.046	.024	.007	
10.0	.052	.025	.007	.051	.024	.007	.049	.024	.007	.047	.023	.007	.045	.023	.006	

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	.118	.118	.118	.101	.101	.101	.069	.069	.069	.040	.040	.040	.013	.013	.013		
1.0	.105	.098	.092	.090	.084	.079	.061	.058	.055	.035	.034	.032	.011	.011	.010		
2.0	.093	.083	.073	.080	.071	.063	.055	.049	.044	.032	.029	.026	.010	.009	.008		
3.0	.084	.070	.060	.072	.061	.052	.050	.042	.036	.029	.025	.021	.009	.008	.007		
4.0	.076	.061	.049	.066	.053	.043	.045	.037	.030	.026	.021	.018	.008	.007	.006		
5.0	.070	.053	.041	.060	.046	.036	.041	.032	.025	.024	.019	.015	.008	.006	.005		
6.0	.064	.047	.035	.055	.041	.030	.038	.029	.021	.022	.017	.013	.007	.005	.004		
7.0	.060	.042	.030	.051	.036	.026	.035	.026	.018	.021	.015	.011	.007	.005	.004		
8.0	.056	.038	.025	.048	.033	.022	.033	.023	.016	.019	.014	.009	.006	.004	.003		
9.0	.052	.034	.022	.045	.030	.019	.031	.021	.014	.018	.012	.008	.006	.004	.003		
10.0	.049	.031	.019	.042	.027	.017	.029	.019	.012	.017	.011	.007	.006	.004	.002		

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LENS:PM-1082A 24R
DRIVER: IT FIT 20/200-240/500 CS 350mA
30minutes warm-up

UGR(Unified Glare Rating) Table

Test:U:220.19V I:0.0640A P:13.680W PF:0.9689 Freq:49.99Hz Lamp Flux:1490.38x1 lm										
NAME: 2318.112-ACOT-70					TYPE:			WEIGHT:		
SPEC.: 3000K					DIM.:			SERIAL No.: 2408070991		
MFR.: RISE					SUR.: 0.001734065m2			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	5.0	5.7	5.2	5.8	6.0	4.9	5.5	5.1	5.7	5.8
3H	4.9	5.5	5.1	5.7	5.9	4.7	5.3	5.0	5.5	5.7
4H	4.8	5.4	5.1	5.6	5.8	4.7	5.2	4.9	5.4	5.7
6H	4.7	5.3	5.0	5.5	5.7	4.6	5.1	4.9	5.4	5.6
8H	4.7	5.2	5.0	5.5	5.7	4.5	5.1	4.8	5.3	5.6
12H	4.6	5.2	4.9	5.4	5.7	4.5	5.0	4.8	5.3	5.5
4H 2H	4.8	5.4	5.1	5.6	5.8	4.7	5.2	4.9	5.4	5.7
3H	4.6	5.1	4.9	5.4	5.7	4.5	5.0	4.8	5.3	5.5
4H	4.5	5.0	4.9	5.3	5.6	4.4	4.9	4.7	5.2	5.5
6H	4.4	4.9	4.8	5.2	5.5	4.3	4.7	4.7	5.0	5.4
8H	4.4	4.8	4.8	5.1	5.5	4.3	4.6	4.6	5.0	5.3
12H	4.3	4.7	4.7	5.1	5.4	4.2	4.6	4.6	4.9	5.3
8H 4H	4.4	4.8	4.8	5.1	5.5	4.2	4.6	4.6	5.0	5.3
6H	4.3	4.6	4.7	5.0	5.4	4.1	4.5	4.6	4.8	5.3
8H	4.2	4.5	4.7	4.9	5.4	4.1	4.4	4.5	4.8	5.2
12H	4.2	4.4	4.6	4.8	5.3	4.0	4.3	4.5	4.7	5.2
12H 4H	4.3	4.7	4.7	5.1	5.4	4.2	4.5	4.6	4.9	5.3
6H	4.2	4.5	4.7	4.9	5.4	4.1	4.4	4.5	4.8	5.2
8H	4.2	4.4	4.6	4.8	5.3	4.0	4.3	4.5	4.7	5.2
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 4.5 / -13.0					+ 4.9 / -12.6				
1.5H	+ 6.8 / -12.4					+ 7.2 / -12.2				
2.0H	+ 6.7 / - 7.2					+ 6.7 / - 6.0				

CIE Pub.117, 1490 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.4)
Area: 0.00173407 m2

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UTILIZATION FACTORS TABLE

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SPEC.: 3000K	DIM.:	SERIAL No.: 2408070991
MFR.: RISE	SUR.: 0.001734065m2	Shielding Angle:

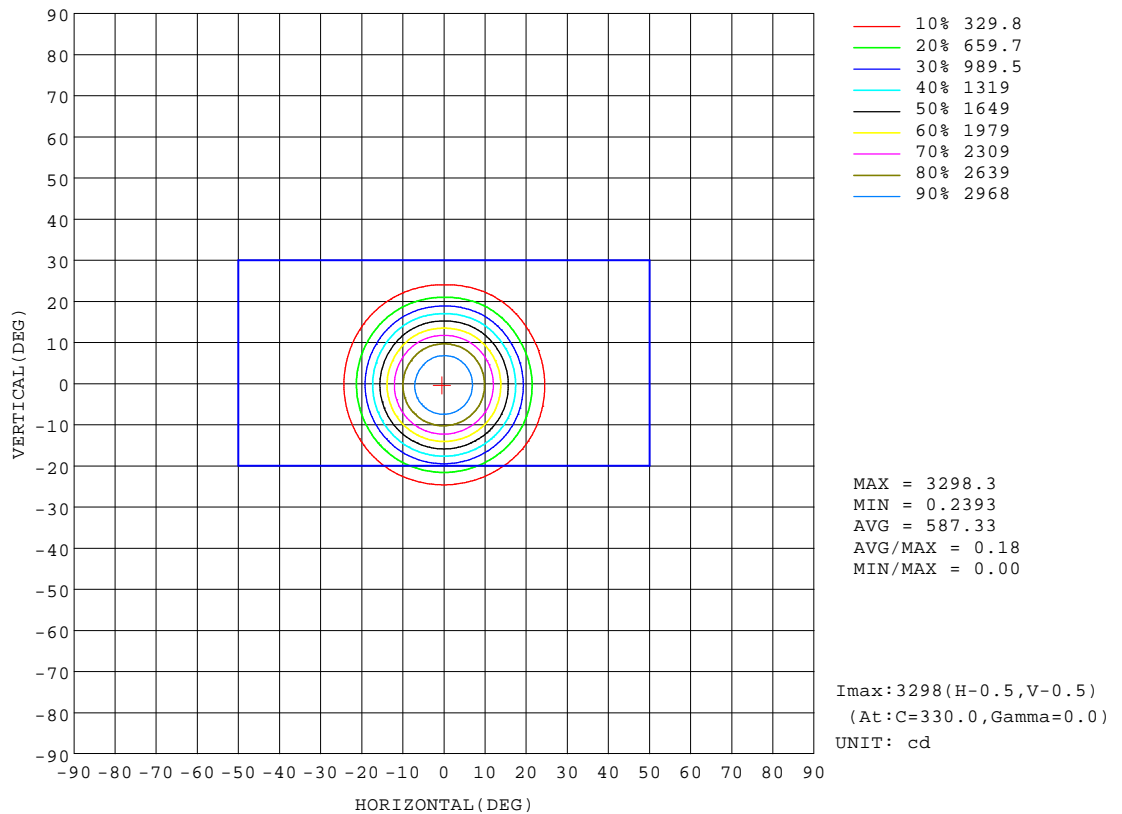
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	57	53	51	57	53	51	56	53	51	49
0.80	61	58	56	61	58	56	60	57	56	54
1.00	63	60	58	63	60	58	62	60	58	56
1.25	66	63	61	65	62	61	64	62	60	58
1.50	67	64	63	66	64	62	65	63	62	59
2.00	68	66	64	68	65	64	66	64	63	60
2.50	69	67	66	68	66	65	66	65	64	60
3.00	70	68	67	69	67	66	67	66	65	61
4.00	71	70	69	70	69	68	68	67	66	62
5.00	72	71	70	71	70	69	68	68	67	62
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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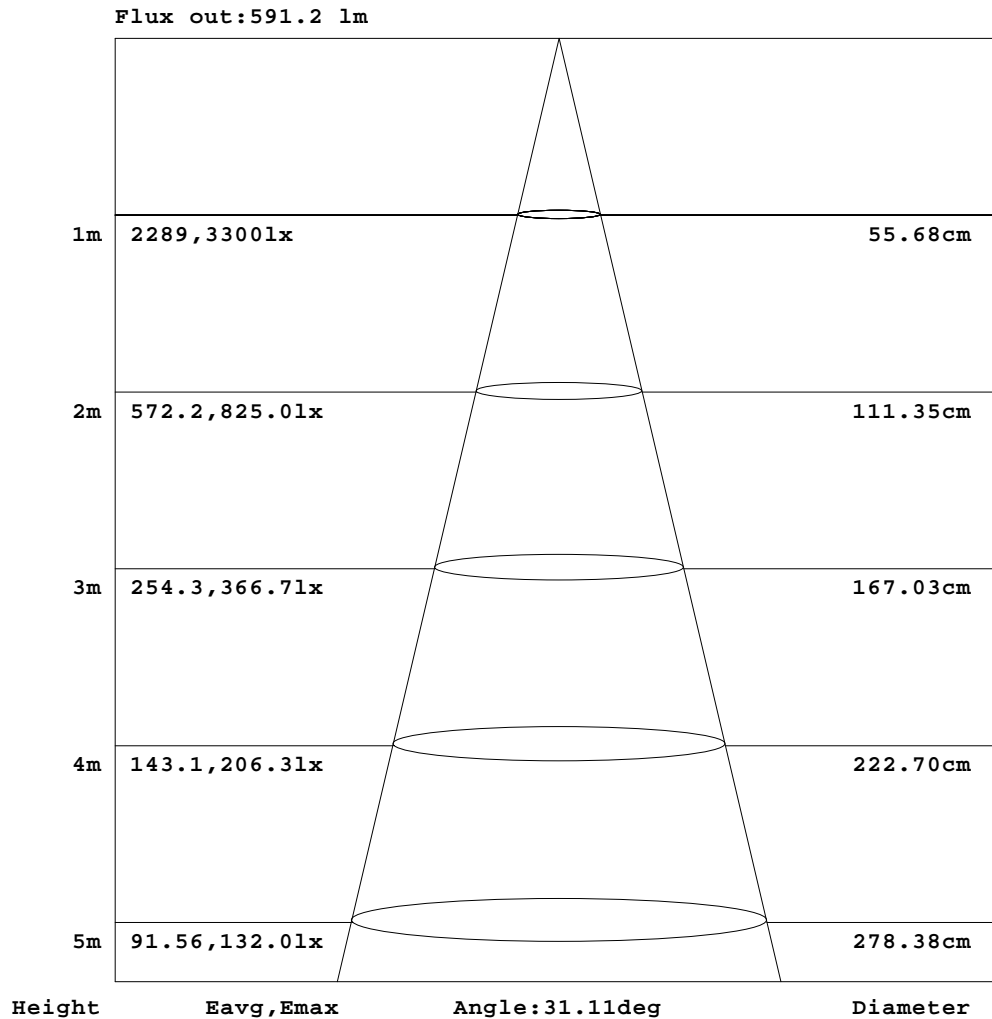


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AAI Figure

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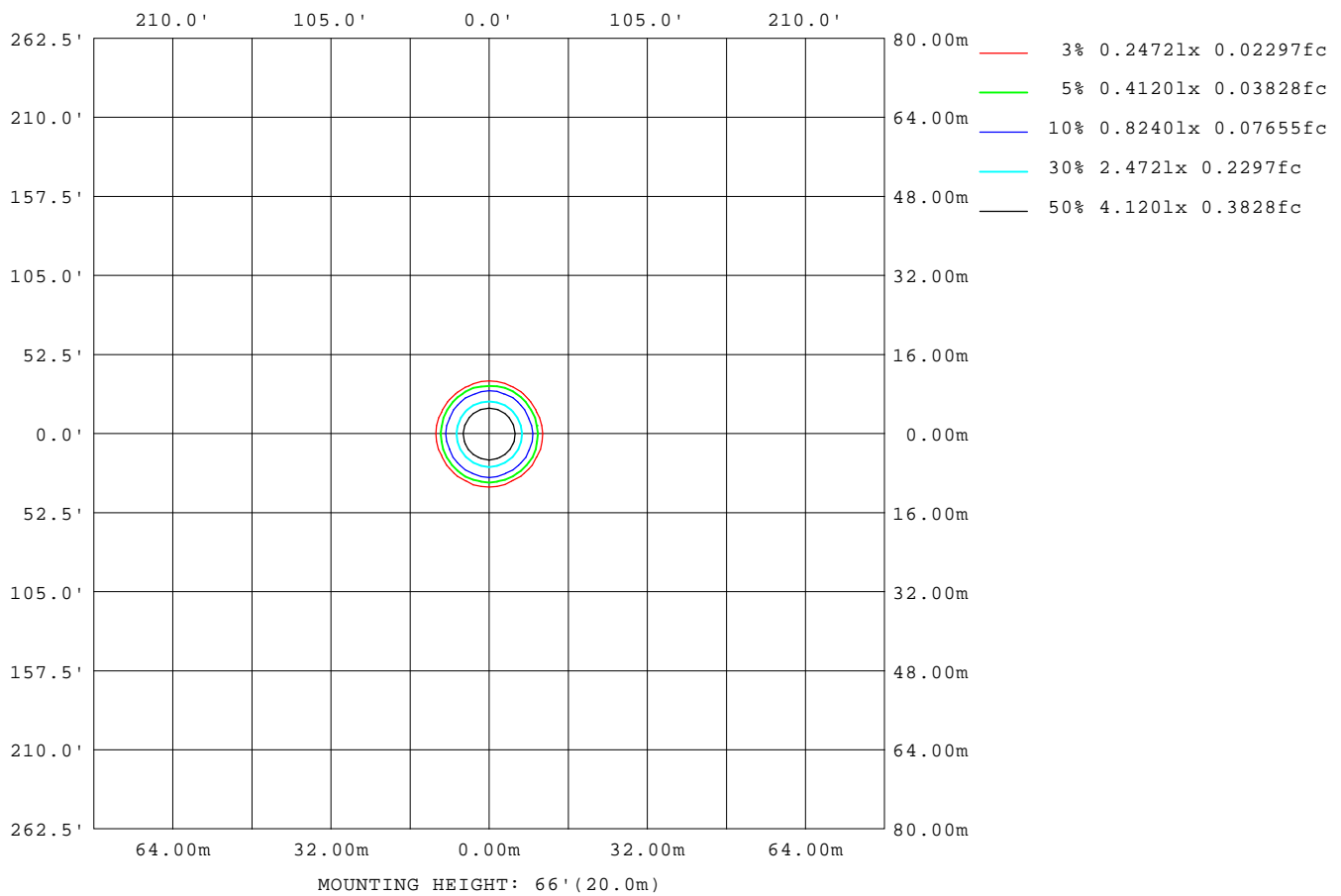
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

Test:U:220.19V I:0.0640A P:13.680W PF:0.9689 Freq:49.99Hz Lamp Flux:1490.38x1 lm		
NAME: 2318.112-ACOT-70	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2408070991
MFR.: RISE	SUR.: 0.001734065m2	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2024-8-7

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:BXRE-30G1000-A-83 Ra:90
LENS:PM-1082A 24R
DRIVER: IT FIT 20/200-240/500 CS 350mA
30minutes warm-up

LED Avg.L Report

Test:U:220.19V I:0.0640A P:13.680W PF:0.9689 Freq:49.99Hz Lamp Flux:1490.38x1 lm		
NAME: 2318.112-ACOT-70	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2408070991
MFR.: RISE	SUR.: 0.001734065m2	Shielding Angle:

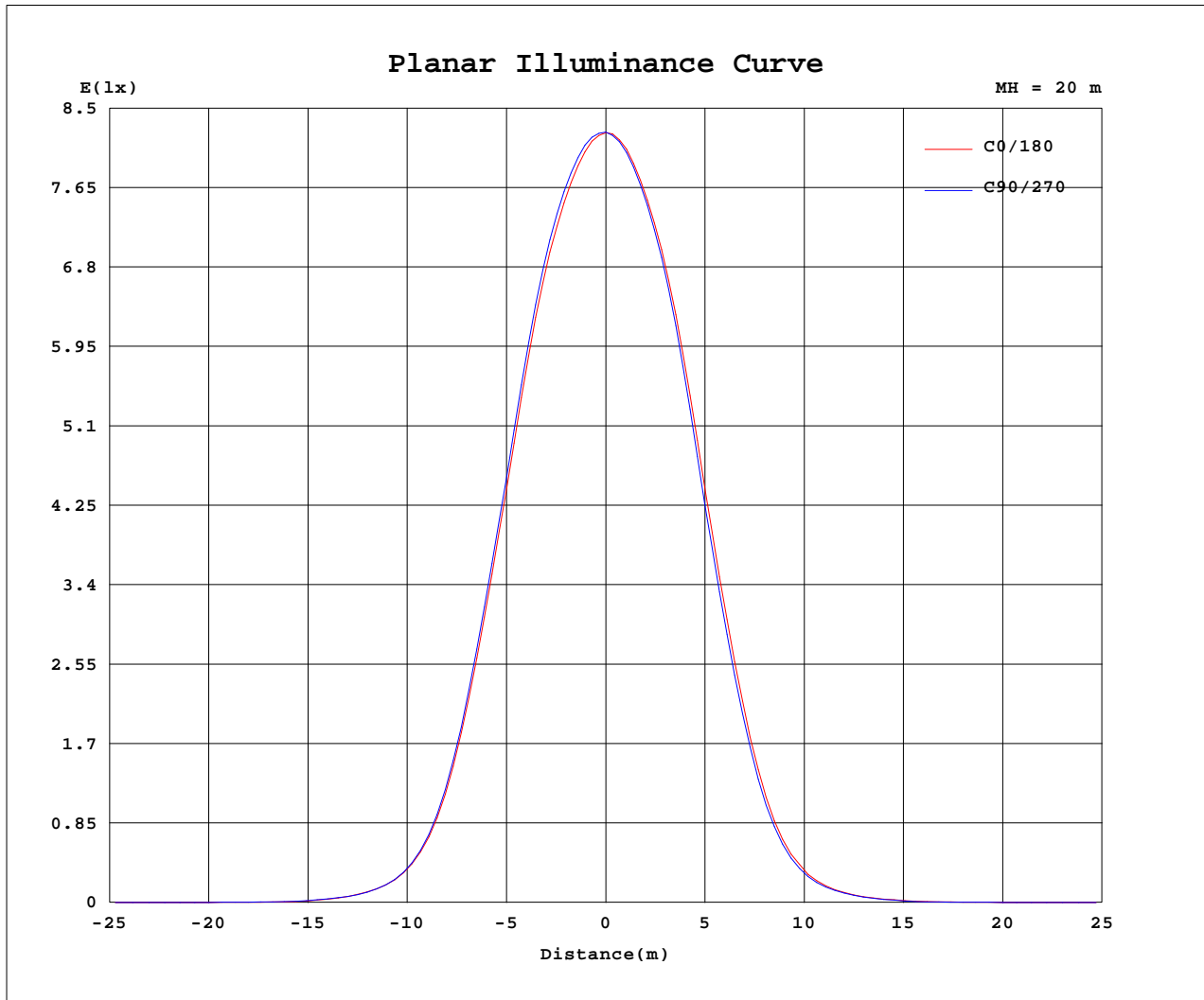
AvgL	cd/m2
L_0~180(65)av	152
L_0~180(75)av	140
L_0~180(85)av	195
L_90~270(65)av	149
L_90~270(75)av	162
L_90~270(85)av	437
L_45(65)av	143
L_45(75)av	126
L_45(85)av	154

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2024-8-7

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:BXRE-30G1000-A-83 Ra:90
LENS:PM-1082A 24R
DRIVER: IT FIT 20/200-240/500 CS 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: 2024-8-7

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: BXRE-30G1000-A-83 Ra:90
 LENS: PM-1082A 24R
 DRIVER: IT FIT 20/200-240/500 CS 350mA
 30minutes warm-up



LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.19V I:0.0640A P:13.680W PF:0.9689 Freq:49.99Hz Lamp Flux:1490.38x1 lm		
NAME: 2318.112-ACOT-70	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2408070991
MFR.: RISE	SUR.: 0.001734065m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	3297	3297	3297	3297	3297	3297	3297	3297	3297	3297	3297	3297						
5	3118	3132	3146	3159	3159	3152	3129	3109	3108	3108	3113	3110						
10	2624	2649	2665	2680	2681	2666	2636	2602	2596	2586	2599	2601						
15	1766	1802	1808	1817	1809	1784	1758	1712	1710	1683	1718	1723						
20	879	901	898	907	900	860	854	826	814	803	833	825						
25	292	304	293	300	299	280	279	267	263	257	275	265						
30	90.0	94.5	90.2	89.9	91.8	87.0	85.6	86.1	80.5	81.8	85.8	84.3						
35	27.6	29.4	28.0	28.8	29.1	28.6	27.8	27.5	26.8	25.9	26.9	25.4						
40	6.76	7.09	7.12	7.10	7.30	7.24	7.10	7.13	6.99	6.61	6.58	6.29						
45	3.09	3.23	3.18	3.22	3.31	3.41	3.49	3.43	3.26	3.16	3.18	3.10						
50	1.22	1.21	1.29	1.28	1.33	1.43	1.56	1.38	1.33	1.23	1.33	1.18						
55	0.29	0.28	0.28	0.29	0.31	0.32	0.30	0.31	0.31	0.31	0.29	0.29						
60	0.17	0.16	0.15	0.16	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.16						
65	0.11	0.10	0.10	0.10	0.11	0.11	0.11	0.11	0.11	0.12	0.11	0.11						
70	0.08	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.09	0.08	0.07						
75	0.06	0.05	0.06	0.07	0.07	0.06	0.06	0.06	0.06	0.07	0.06	0.05						
80	0.05	0.04	0.05	0.08	0.06	0.05	0.05	0.04	0.05	0.06	0.05	0.04						
85	0.03	0.01	0.02	0.07	0.03	0.03	0.03	0.02	0.03	0.06	0.03	0.02						
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
Test Speed: HIGH
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Operators:zoe
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