

Luminaire Photograph



Light Output Ratio:	70.4%	
Luminaire Power:	15.85 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: 2023-11-29

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: PUP20A-1WMC 400mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

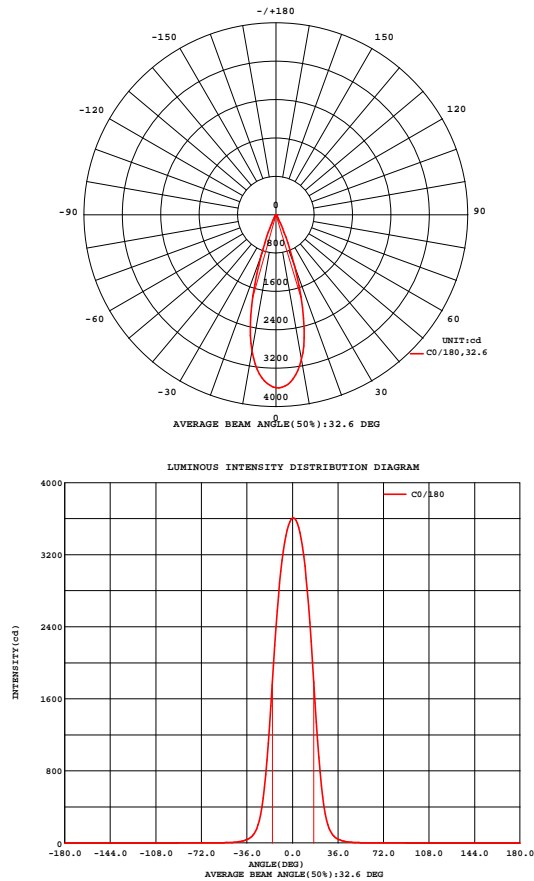


Fig. C0/C180

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3 °C
Operators:zoe
Test Date:2023-11-29

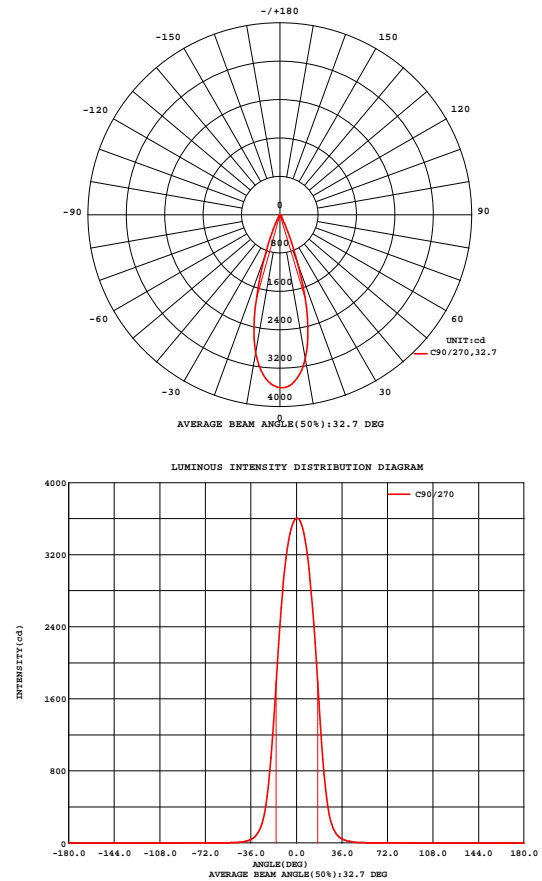


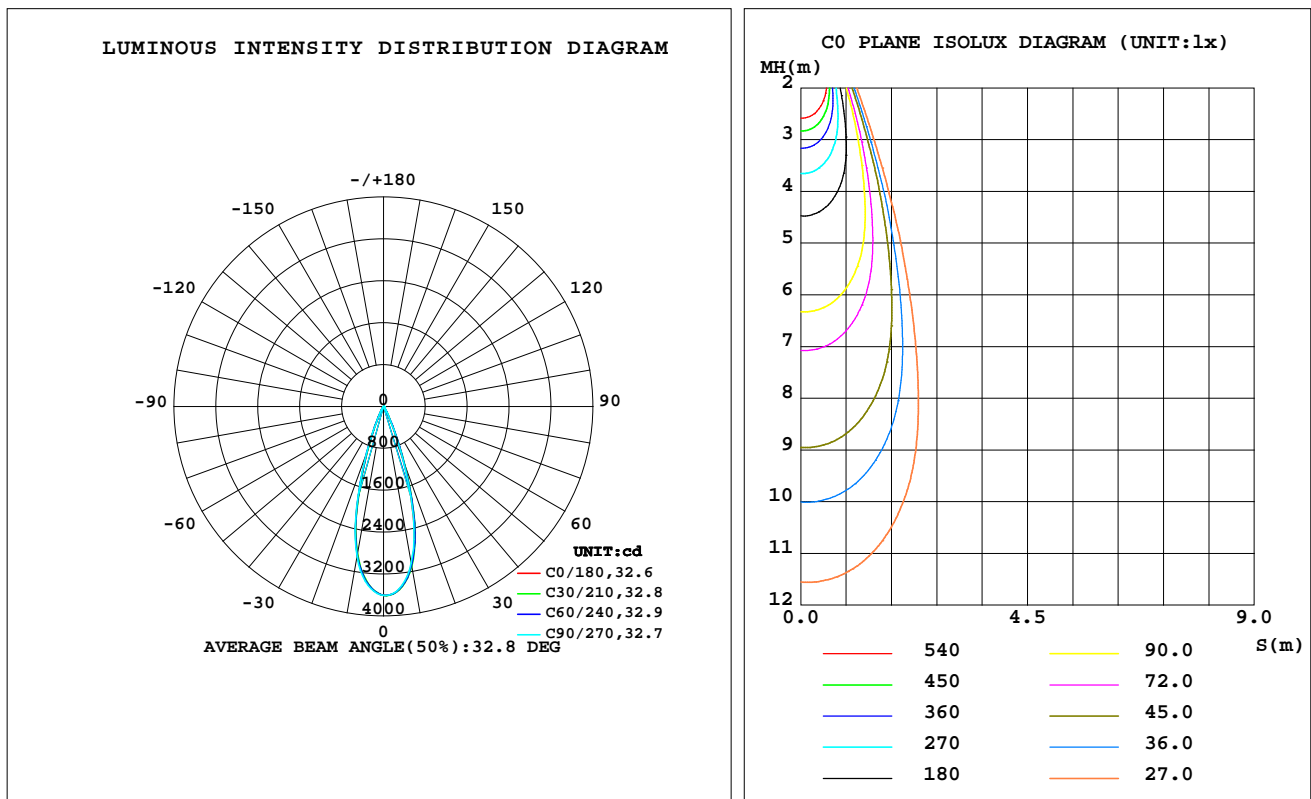
Fig. C90/C270

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Interval: 1.0DEG
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LENS:PM-1082A 24R
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30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.13V I:0.1328A P:15.848W PF:0.9919 Freq:59.98Hz Lamp Flux:1579.4x1 lm		
NAME: 2318.110-LEA-14(400mA)	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2311291398
MFR.: RISE	SUR.: 0.003737385m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 70.16 lm/W			
MODEL	Bridgelux	Imax(cd)	3610	S/MH(C0/180)	0.49
NOMINAL POWER(W)	16	LOR(%)	70.4	S/MH(C90/270)	0.50
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1111.9	UP,DN(C0-180)	0.0,36.7
NOMINAL FLUX(lm)	1579.4	CIE CLASS	DIRECT	UP,DN(C180-360)	0.0,33.7
LAMPS INSIDE	1	up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	120	down(%)	70.4	CIBSE SHR MAX	0.50



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ZONAL FLUX DIAGRAM

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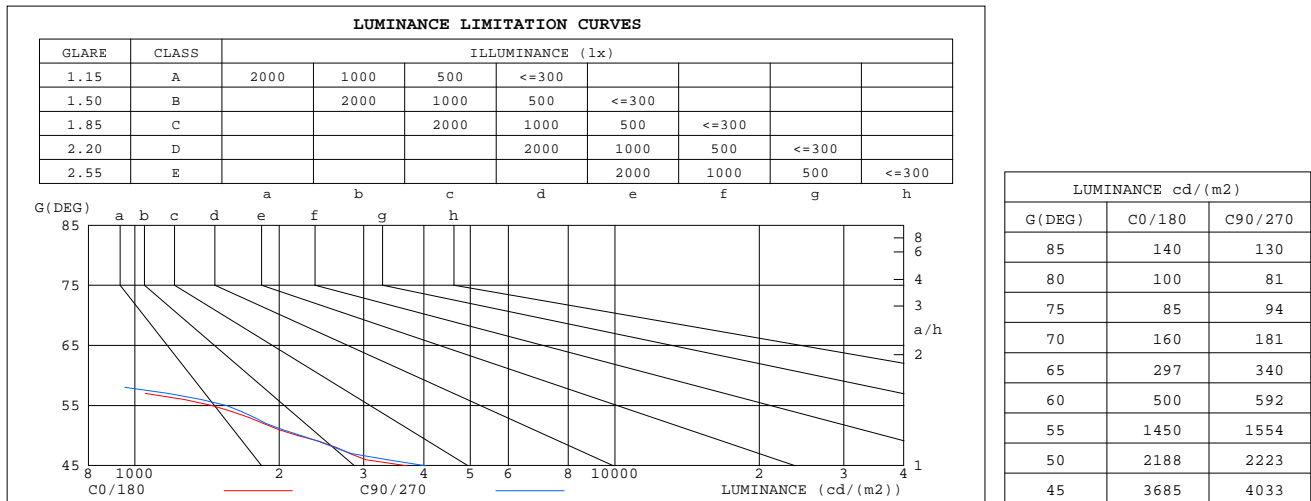
	C0	C45	C90	C135	C180	C225	C270	C315		zone	total	%lum,lamp
10	3070	3092	3044	2968	2884	2878	2918	2987	0- 10	315.0	315.0	28.3,19.9
20	1134	1190	1114	1030	920.6	923.8	948.0	1034	10- 20	556.6	871.5	78.4,55.2
30	132.2	145.3	135.3	125.7	106.1	115.5	117.4	125.8	20- 30	193.1	1065	95.7,67.4
40	23.10	25.70	24.75	23.46	20.60	20.54	19.64	21.16	30- 40	35.75	1100	99,69.7
50	5.255	5.583	5.340	5.522	5.024	4.752	4.482	4.708	40- 50	8.328	1109	99.7,70.2
60	0.9341	1.052	1.106	1.083	0.9881	0.8669	0.7973	0.8337	50- 60	2.575	1111	99.9,70.4
70	0.2041	0.2225	0.2308	0.2312	0.1937	0.1736	0.1574	0.1609	60- 70	0.4943	1112	100,70.4
80	0.0649	0.0523	0.0527	0.0479	0.0561	0.0466	0.0484	0.0393	70- 80	0.0991	1112	100,70.4
90	0	0	0	0	0	0	0	0	80- 90	0.0359	1112	100,70.4
100	0	0	0	0	0	0	0	0	90-100	0	1112	100,70.4
110	0	0	0	0	0	0	0	0	100-110	0	1112	100,70.4
120	0	0	0	0	0	0	0	0	110-120	0	1112	100,70.4
130	0	0	0	0	0	0	0	0	120-130	0	1112	100,70.4
140	0	0	0	0	0	0	0	0	130-140	0	1112	100,70.4
150	0	0	0	0	0	0	0	0	140-150	0	1112	100,70.4
160	0	0	0	0	0	0	0	0	150-160	0	1112	100,70.4
170	0	0	0	0	0	0	0	0	160-170	0	1112	100,70.4
180	0	0	0	0	0	0	0	0	170-180	0	1112	100,70.4
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:120.13V I:0.1328A P:15.848W PF:0.9919 Freq:59.98Hz Lamp Flux:1579.4x1 lm		
NAME: 2318.110-LEA-14(400mA)	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2311291398
MFR.: RISE	SUR.: 0.003737385m2	Shielding Angle:



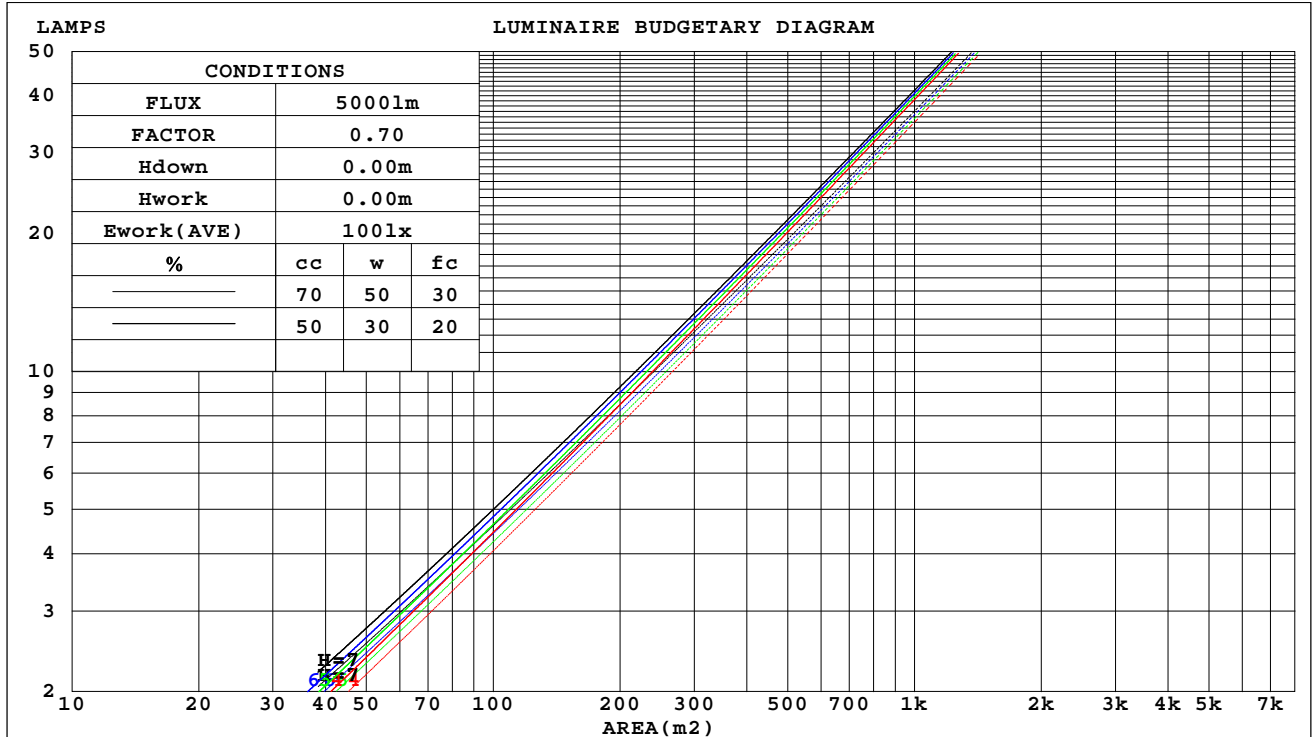
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.: 3000K	DIM.:	SERIAL No.: 2311291398
MFR.: RISE	SUR.: 0.003737385m2	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.: 2311291398
MFR.: RISE	SUR.: 0.003737385m2	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	.099	.056	.018	.094	.054	.017	.085	.049	.016	.077	.045	.014	.070	.041	.013	
2.0	.092	.050	.015	.088	.048	.015	.081	.045	.014	.074	.042	.013	.068	.038	.012	
3.0	.086	.046	.014	.083	.044	.013	.077	.041	.013	.071	.039	.012	.066	.036	.011	
4.0	.081	.042	.012	.078	.041	.012	.073	.039	.012	.068	.037	.011	.064	.035	.011	
5.0	.076	.039	.011	.074	.038	.011	.070	.036	.011	.065	.035	.010	.062	.033	.010	
6.0	.072	.036	.010	.070	.036	.010	.067	.034	.010	.063	.033	.010	.060	.031	.009	
7.0	.069	.034	.010	.067	.033	.010	.064	.032	.009	.061	.031	.009	.058	.030	.009	
8.0	.066	.032	.009	.064	.032	.009	.061	.031	.009	.059	.030	.009	.056	.029	.008	
9.0	.063	.030	.009	.062	.030	.008	.059	.029	.008	.057	.028	.008	.054	.028	.008	
10.0	.060	.029	.008	.059	.029	.008	.057	.028	.008	.055	.027	.008	.053	.027	.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	.134	.134	.134	.115	.115	.115	.078	.078	.078	.045	.045	.045	.014	.014	.014		
1.0	.119	.111	.104	.102	.095	.090	.069	.066	.062	.040	.038	.036	.013	.012	.012		
2.0	.106	.093	.083	.091	.080	.072	.062	.056	.050	.036	.032	.029	.012	.010	.010		
3.0	.096	.080	.067	.082	.069	.058	.056	.048	.041	.033	.028	.024	.010	.009	.008		
4.0	.087	.069	.055	.075	.060	.048	.051	.042	.034	.030	.024	.020	.010	.008	.007		
5.0	.080	.060	.046	.069	.052	.040	.047	.036	.028	.027	.021	.017	.009	.007	.006		
6.0	.074	.053	.039	.063	.046	.034	.044	.032	.024	.025	.019	.014	.008	.006	.005		
7.0	.068	.048	.033	.059	.041	.029	.041	.029	.020	.024	.017	.012	.008	.006	.004		
8.0	.064	.043	.028	.055	.037	.025	.038	.026	.018	.022	.015	.011	.007	.005	.003		
9.0	.060	.039	.025	.052	.034	.022	.036	.024	.015	.021	.014	.009	.007	.005	.003		
10.0	.057	.036	.022	.049	.031	.019	.034	.022	.013	.020	.013	.008	.006	.004	.003		

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Interval: 1.0DEG
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30minutes warm-up

UGR(Unified Glare Rating) Table

Test:U:120.13V I:0.1328A P:15.848W PF:0.9919 Freq:59.98Hz Lamp Flux:1579.4x1 lm										
NAME: 2318.110-LEA-14(400mA)					TYPE:			WEIGHT:		
SPEC.: 3000K					DIM.:			SERIAL No.: 2311291398		
MFR.: RISE					SUR.: 0.003737385m2			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	6.2	6.9	6.4	7.0	7.2	6.3	7.0	6.5	7.2	7.3
3H	6.1	6.7	6.3	6.9	7.1	6.2	6.8	6.4	7.0	7.2
4H	6.0	6.6	6.2	6.8	7.0	6.1	6.7	6.4	6.9	7.1
6H	5.9	6.5	6.2	6.7	6.9	6.0	6.6	6.3	6.8	7.1
8H	5.8	6.4	6.1	6.6	6.9	6.0	6.5	6.3	6.8	7.0
12H	5.8	6.3	6.1	6.6	6.9	5.9	6.5	6.3	6.7	7.0
4H 2H	6.0	6.6	6.2	6.8	7.0	6.1	6.7	6.4	6.9	7.1
3H	5.8	6.3	6.1	6.6	6.9	6.0	6.5	6.3	6.8	7.0
4H	5.7	6.2	6.1	6.5	6.8	5.9	6.4	6.2	6.6	6.9
6H	5.6	6.1	6.0	6.4	6.7	5.8	6.2	6.1	6.5	6.9
8H	5.6	6.0	6.0	6.3	6.7	5.7	6.1	6.1	6.5	6.8
12H	5.5	5.9	5.9	6.3	6.6	5.7	6.0	6.1	6.4	6.8
8H 4H	5.6	6.0	6.0	6.3	6.7	5.7	6.1	6.1	6.5	6.8
6H	5.5	5.8	5.9	6.2	6.6	5.6	5.9	6.0	6.3	6.7
8H	5.4	5.7	5.8	6.1	6.5	5.5	5.8	6.0	6.3	6.7
12H	5.3	5.6	5.8	6.0	6.5	5.5	5.7	6.0	6.2	6.6
12H 4H	5.5	5.9	5.9	6.2	6.6	5.7	6.0	6.1	6.4	6.8
6H	5.4	5.7	5.8	6.1	6.5	5.5	5.8	6.0	6.3	6.7
8H	5.3	5.6	5.8	6.0	6.5	5.5	5.7	5.9	6.2	6.6
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 3.1 / - 9.6					+ 3.3 / - 9.1				
1.5H	+ 5.1 / - 5.6					+ 5.3 / - 5.8				
2.0H	+ 4.9 / - 8.1					+ 5.2 / - 8.2				

CIE Pub.117, 1579 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.6)
Area: 0.00373738 m2

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UTILIZATION FACTORS TABLE

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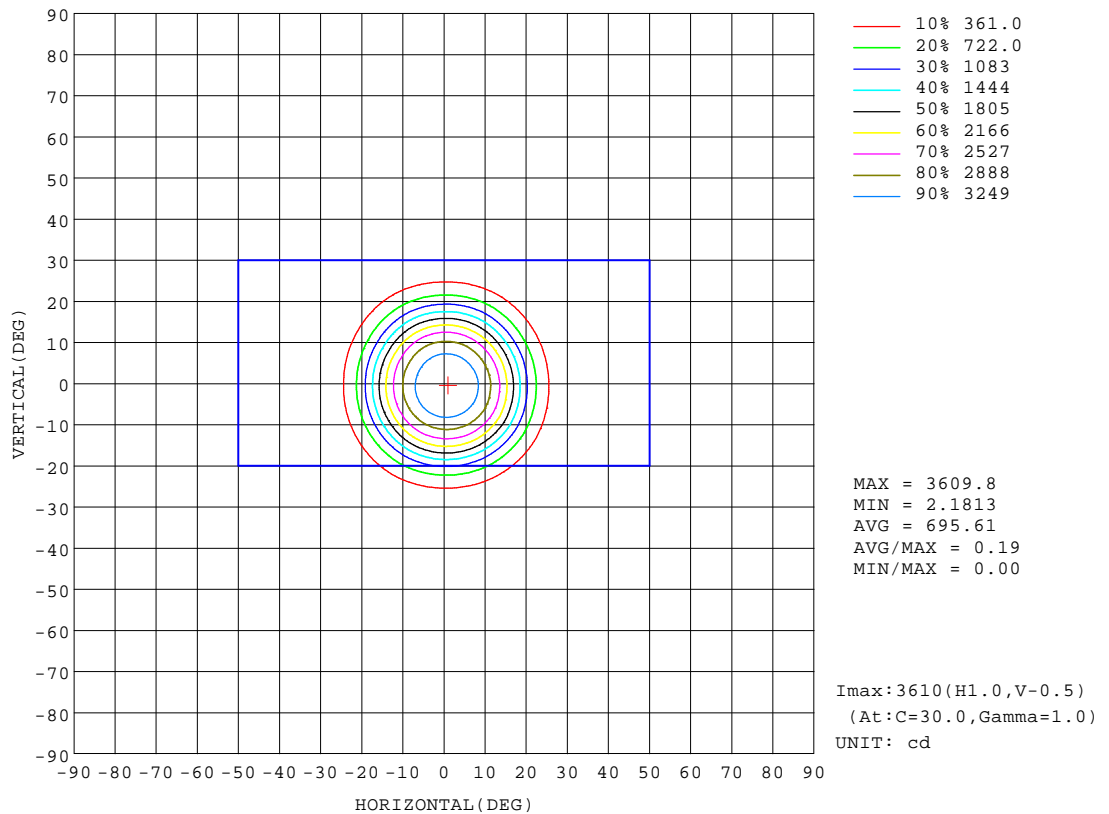
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	64	60	58	64	60	58	63	60	57	55
0.80	69	65	63	68	65	63	68	65	63	60
1.00	72	68	66	71	68	66	70	68	65	63
1.25	74	71	69	73	70	68	72	70	68	65
1.50	76	73	71	75	72	70	73	71	70	67
2.00	77	75	73	76	74	72	74	73	71	68
2.50	78	76	74	77	75	73	75	73	72	68
3.00	79	77	75	78	76	75	76	74	73	69
4.00	81	79	77	79	78	77	77	76	75	70
5.00	81	80	79	80	79	78	77	76	76	70
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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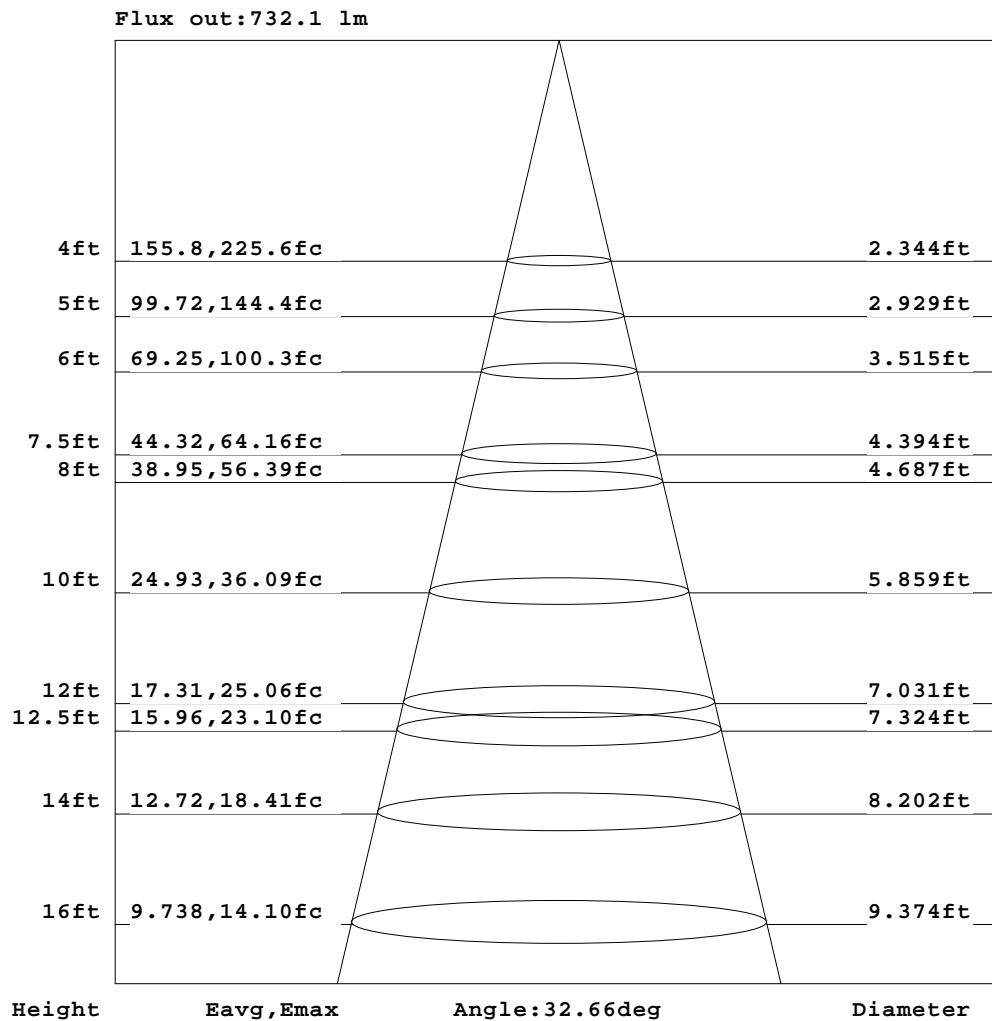


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AAI Figure

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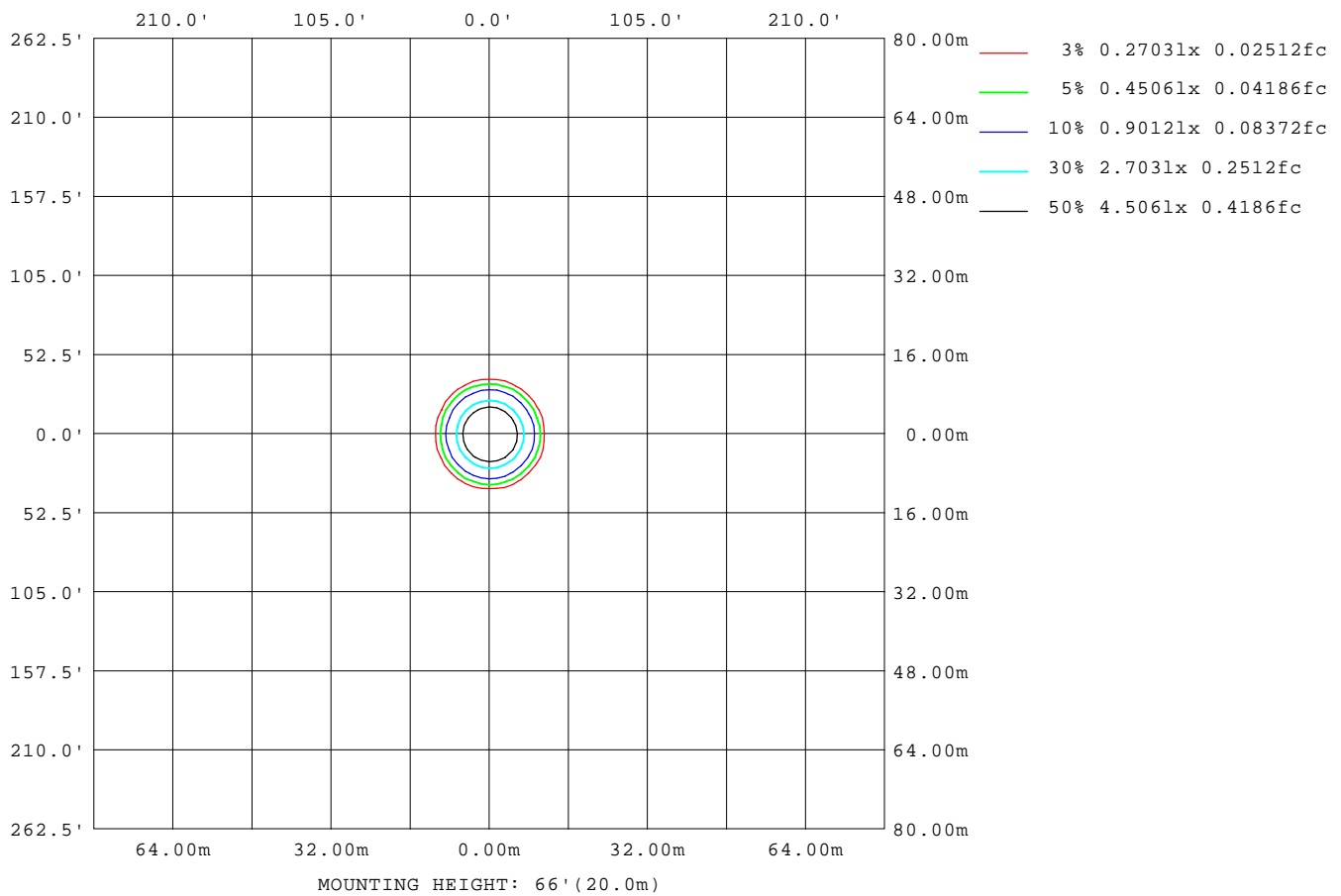
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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MFR.: RISE	SUR.: 0.003737385m2	Shielding Angle:



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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:BXRE-30G1000-A-83 Ra:90
LENS:PM-1082A 24R
DRIVER:PUP20A-1WMC 400mA
30minutes warm-up

LED Avg.L Report

Test:U:120.13V I:0.1328A P:15.848W PF:0.9919 Freq:59.98Hz Lamp Flux:1579.4x1 lm		
NAME: 2318.110-LEA-14(400mA)	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2311291398
MFR.: RISE	SUR.: 0.003737385m2	Shielding Angle:

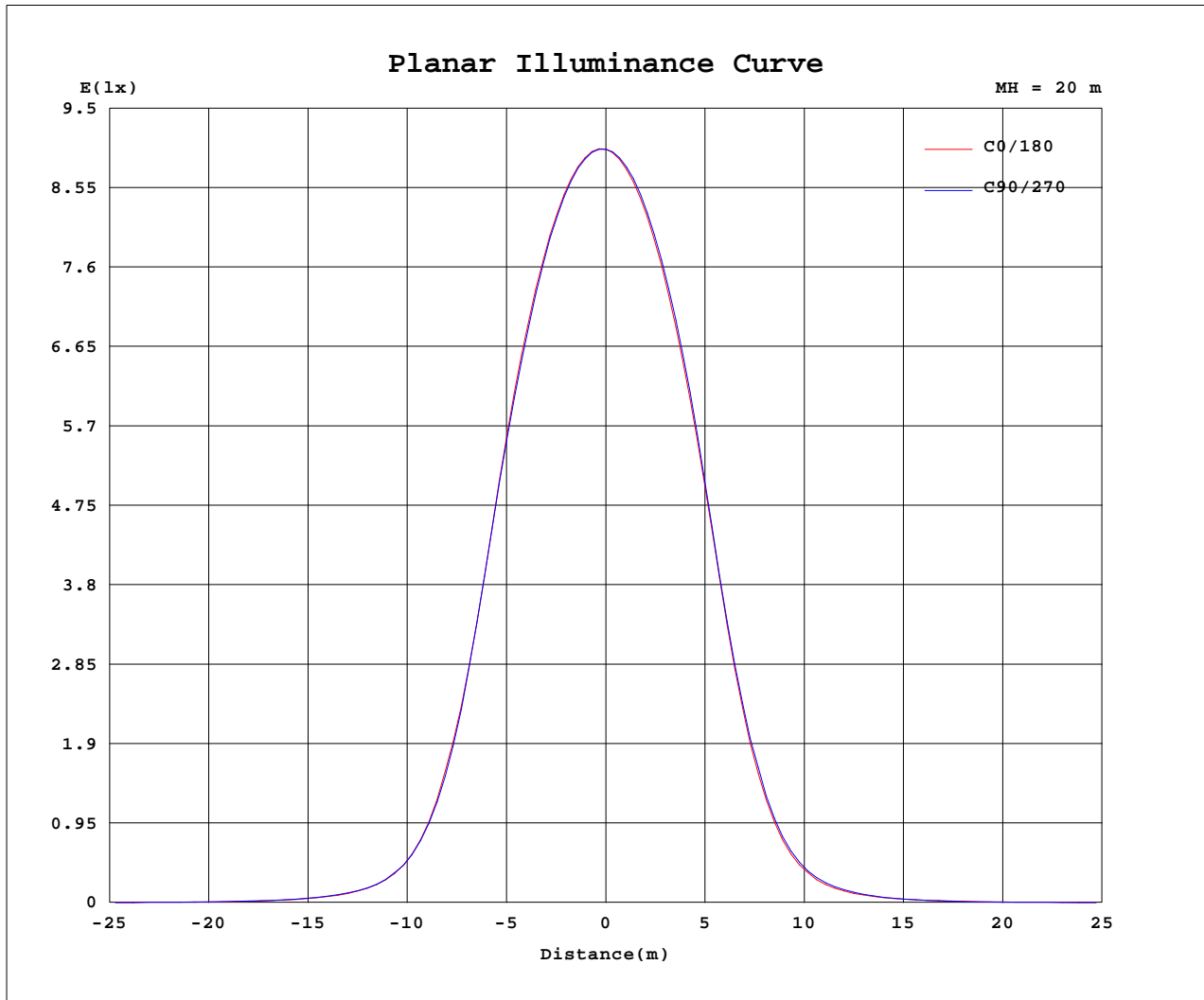
AvgL	cd/m2
L_0~180(65)av	298
L_0~180(75)av	80
L_0~180(85)av	132
L_90~270(65)av	291
L_90~270(75)av	79
L_90~270(85)av	126
L_45(65)av	296
L_45(75)av	78
L_45(85)av	82

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2023-11-29

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:PUP20A-1WMC 400mA
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: 2023-11-29

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: PUP20A-1WMC 400mA
 30minutes warm-up

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.13V I:0.1328A P:15.848W PF:0.9919 Freq:59.98Hz Lamp Flux:1579.4x1 lm		
NAME: 2318.110-LEA-14(400mA)	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2311291398
MFR.: RISE	SUR.: 0.003737385m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	3604	3604	3604	3604	3604	3604	3604	3604	3604	3604	3604	3604						
5	3501	3511	3503	3491	3468	3443	3408	3395	3408	3428	3454	3478						
10	3070	3101	3084	3044	2999	2938	2884	2864	2891	2918	2964	3010						
15	2238	2315	2290	2226	2161	2060	1969	1930	1967	1990	2057	2134						
20	1134	1207	1173	1114	1074	987	921	901	946	948	1014	1054						
25	405	439	424	398	385	344	313	314	339	332	363	375						
30	132	147	144	135	132	120	106	111	120	117	125	127						
35	53.0	59.7	58.9	56.0	54.0	50.0	44.2	46.2	48.0	47.0	49.5	50.2						
40	23.1	25.6	25.8	24.7	24.2	22.7	20.6	20.0	21.1	19.6	20.9	21.5						
45	9.74	10.6	11.1	10.7	10.8	10.1	8.77	8.00	7.83	7.30	7.70	8.83						
50	5.26	5.54	5.63	5.34	5.60	5.44	5.02	4.79	4.71	4.48	4.57	4.85						
55	3.11	3.26	3.28	3.33	3.36	3.30	2.99	2.78	2.74	2.43	2.59	2.69						
60	0.93	1.03	1.07	1.11	1.10	1.07	0.99	0.90	0.84	0.80	0.81	0.86						
65	0.47	0.51	0.53	0.54	0.55	0.52	0.47	0.43	0.40	0.38	0.39	0.41						
70	0.20	0.22	0.23	0.23	0.24	0.23	0.19	0.18	0.17	0.16	0.16	0.17						
75	0.08	0.08	0.09	0.09	0.09	0.09	0.07	0.07	0.07	0.06	0.06	0.06						
80	0.06	0.05	0.05	0.05	0.05	0.05	0.06	0.05	0.05	0.05	0.04	0.04						
85	0.05	0.04	0.04	0.04	0.03	0.02	0.04	0.03	0.03	0.04	0.02	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
Temperature:25.3℃
Operators:zoe
Test Date:2023-11-29

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