

Luminaire Photograph



Light Output Ratio:	80.8%	
Luminaire Power:	27.5 W	
SHR Nominal:	0.75	Calculated using the TM5
SHR Maximum:	0.75	fine grid method.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Zoe
Test Date: 2022-8-17

g Range: 0 - 180DEG
Interval: 1.0DEG
Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.416
Humidity: 65.0%
Test Distance: 3.160m [K=1.0000]
Remarks: LAMP: BXRE-30G2000-C-83 Ra: 90
LENS: PM-1083B 36R
DRIVER: PUP40A-1WMC-850 700mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

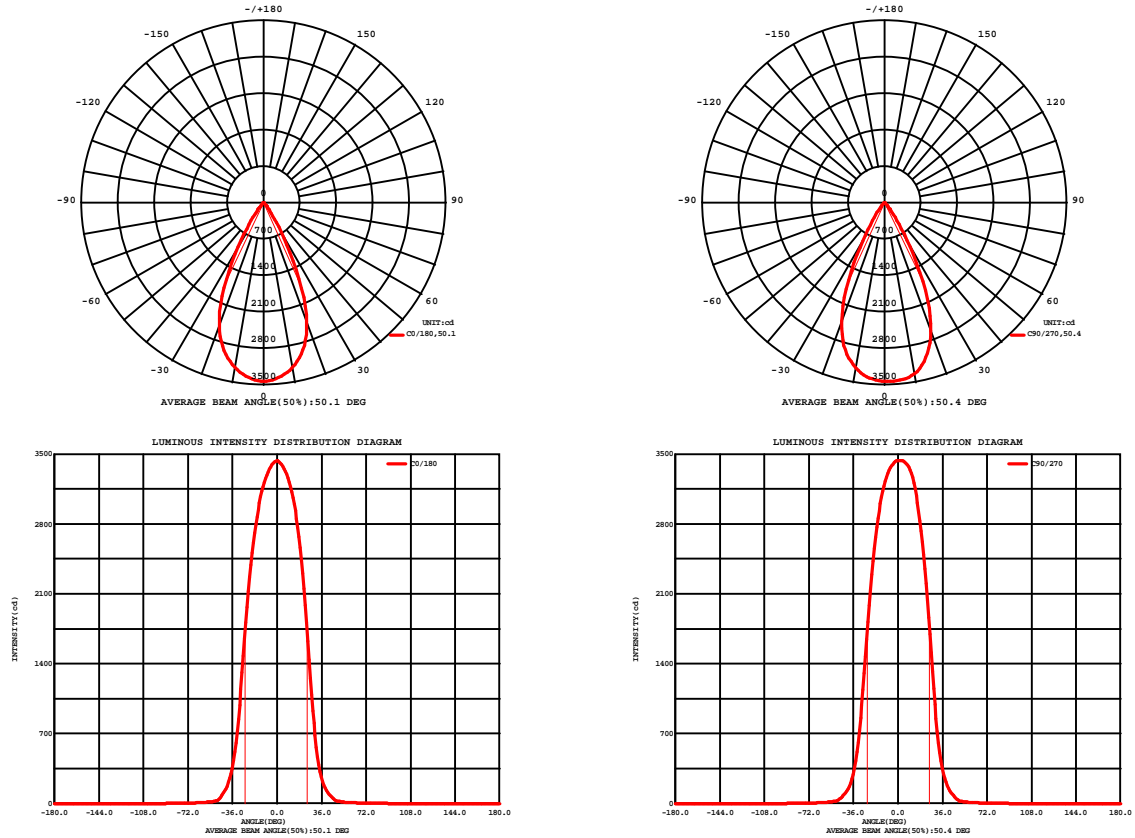


Fig. C0/C180

Fig. C90/C270

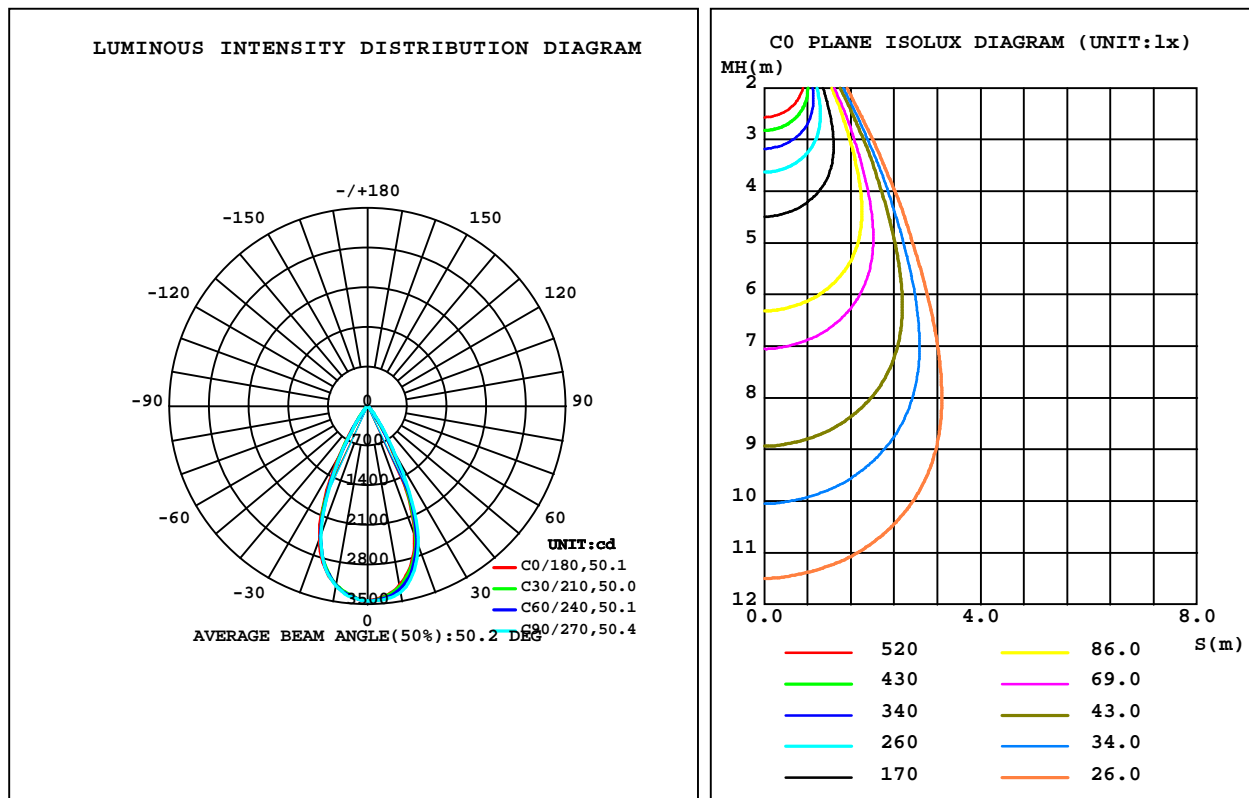
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30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.91V I:0.2313A P:27.497W PF:0.9899 Freq:59.98Hz Lamp Flux:2796.63x1 lm		
NAME: 2018.481-ACOT-84-AM	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2208170672
MFR.: RISE	SUR.:0.0063585m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 82.19 lm/W			
MODEL	Bridgelux	I _{max} (cd)	3435	S/MH(C0/180)	0.76
NOMINAL POWER(W)	27	LOR(%)	80.8	S/MH(C90/270)	0.74
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	2260.0	h UP,DN(C0-180)	0.0,41.0
NOMINAL FLUX(lm)	2796.63	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.0,39.8
LAMPS INSIDE	1	h up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	120	h down(%)	80.8	CIBSE SHR MAX	0.75



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30minutes warm-up

ZONAL FLUX DIAGRAM

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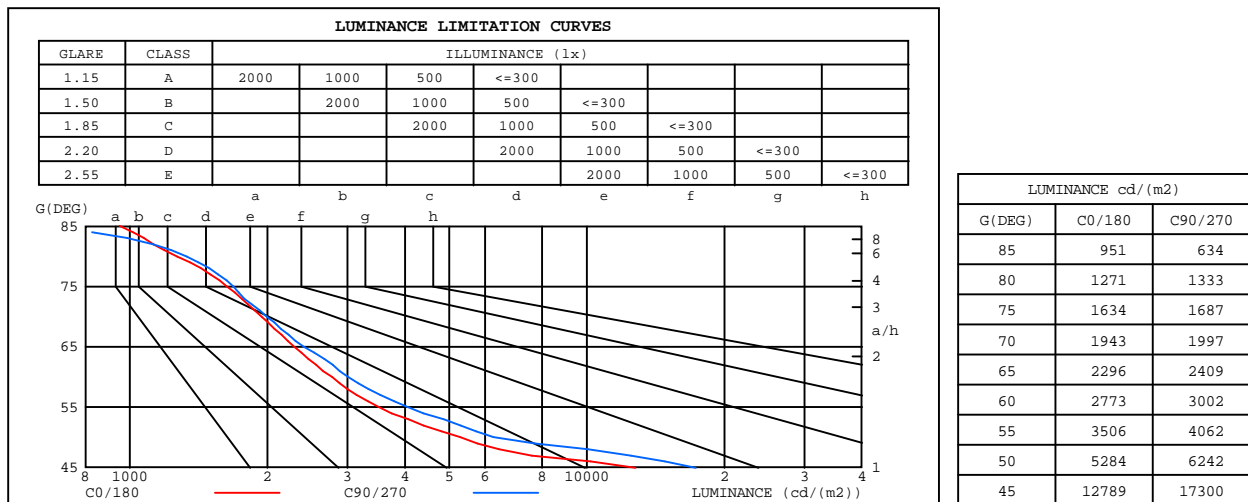
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum, lamp
10	3216	3264	3339	3306	3214	3210	3225	3246	0- 10	319.3	319.3	14.1,11.4
20	2439	2516	2616	2580	2506	2449	2427	2470	10- 20	823.1	1142	50.5,40.8
30	804.7	861.7	990.9	987.3	986.8	889.9	858.1	843.4	20- 30	774.5	1917	84.8,68.5
40	132.8	150.4	176.3	172.3	172.0	155.6	144.8	138.6	30- 40	261.3	2178	96.4,77.9
50	21.60	23.64	25.51	26.95	23.48	27.25	25.00	23.76	40- 50	57.28	2235	98.9,79.9
60	8.815	9.451	9.544	10.23	9.580	10.25	9.536	9.597	50- 60	13.94	2249	99.5,80.4
70	4.225	4.471	4.343	4.816	4.704	4.893	4.569	4.610	60- 70	6.829	2256	99.8,80.7
80	1.403	1.445	1.472	1.626	1.694	1.665	1.493	1.511	70- 80	3.136	2259	100,80.8
90	0	0	0	0	0	0	0	0	80- 90	0.6151	2260	100,80.8
100	0	0	0	0	0	0	0	0	90-100	0	2260	100,80.8
110	0	0	0	0	0	0	0	0	100-110	0	2260	100,80.8
120	0	0	0	0	0	0	0	0	110-120	0	2260	100,80.8
130	0	0	0	0	0	0	0	0	120-130	0	2260	100,80.8
140	0	0	0	0	0	0	0	0	130-140	0	2260	100,80.8
150	0	0	0	0	0	0	0	0	140-150	0	2260	100,80.8
160	0	0	0	0	0	0	0	0	150-160	0	2260	100,80.8
170	0	0	0	0	0	0	0	0	160-170	0	2260	100,80.8
180	0	0	0	0	0	0	0	0	170-180	0	2260	100,80.8
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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Humidity:65.0%
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30minutes warm-up

LUMINANCE LIMITATION CURVES

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NAME: 2018.481-ACOT-84-AM	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2208170672
MFR.: RISE	SUR.:0.0063585m2	Shielding Angle:



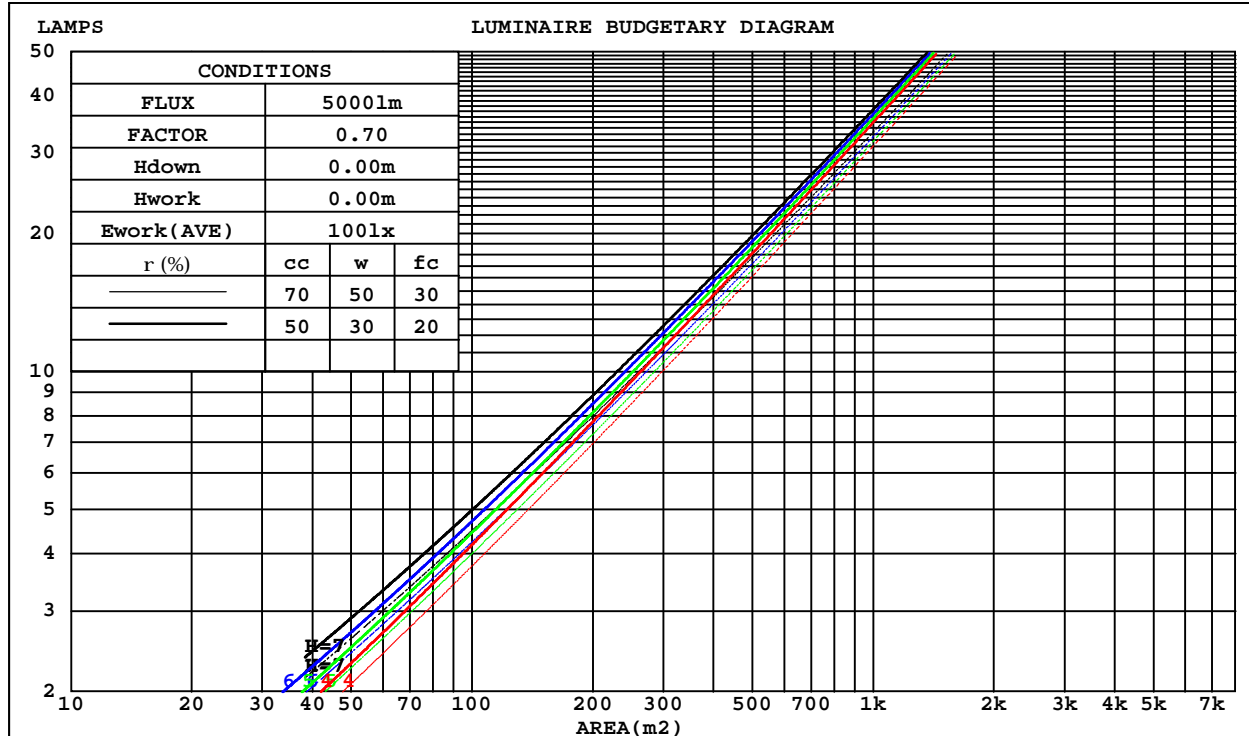
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio Coefficients of Utilization(CU)															
0.0	.96	.96	.96	.94	.94	.94	.90	.90	.90	.86	.86	.86	.82	.82	.82	.81
1.0	.90	.88	.87	.88	.87	.85	.85	.84	.83	.82	.81	.80	.79	.79	.78	.76
2.0	.85	.82	.79	.83	.80	.78	.81	.78	.76	.78	.76	.75	.76	.75	.73	.72
3.0	.80	.76	.73	.78	.75	.72	.76	.74	.71	.74	.72	.70	.73	.71	.69	.68
4.0	.75	.71	.68	.74	.70	.68	.72	.69	.67	.71	.68	.66	.69	.67	.65	.64
5.0	.71	.67	.64	.70	.66	.63	.69	.65	.63	.68	.65	.62	.66	.64	.62	.61
6.0	.67	.63	.60	.67	.63	.60	.65	.62	.59	.64	.61	.59	.63	.61	.58	.57
7.0	.64	.59	.56	.63	.59	.56	.62	.59	.56	.61	.58	.56	.61	.58	.55	.54
8.0	.61	.56	.53	.60	.56	.53	.59	.56	.53	.59	.55	.53	.58	.55	.53	.52
9.0	.58	.54	.51	.57	.53	.51	.57	.53	.50	.56	.53	.50	.55	.52	.50	.49
10.0	.55	.51	.48	.55	.51	.48	.54	.51	.48	.54	.50	.48	.53	.50	.48	.47



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30minutes warm-up

WEC AND CCEC

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SPEC.:3000K	DIM.:	SERIAL No.:2208170672
MFR.: RISE	SUR.:0.0063585m2	Shielding Angle:

rcc	80%			70%			50%			30%			10%			0	
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
rfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.133	.076	.024	.128	.073	.023	.117	.067	.022	.108	.062	.020	.100	.058	.019		
2.0	.126	.069	.021	.122	.067	.021	.113	.063	.020	.105	.059	.018	.098	.055	.017		
3.0	.119	.064	.019	.116	.062	.019	.109	.059	.018	.102	.056	.017	.096	.053	.016		
4.0	.113	.059	.017	.110	.058	.017	.104	.055	.016	.098	.053	.016	.093	.051	.015		
5.0	.108	.055	.016	.105	.054	.016	.100	.052	.015	.095	.050	.015	.090	.048	.014		
6.0	.103	.052	.015	.101	.051	.015	.096	.049	.014	.092	.048	.014	.088	.046	.014		
7.0	.099	.049	.014	.096	.048	.014	.092	.047	.013	.088	.045	.013	.085	.044	.013		
8.0	.094	.046	.013	.092	.046	.013	.089	.044	.013	.085	.043	.012	.082	.042	.012		
9.0	.091	.044	.012	.089	.043	.012	.086	.042	.012	.083	.041	.012	.080	.040	.012		
10.0	.087	.042	.012	.086	.041	.012	.083	.040	.011	.080	.040	.011	.077	.039	.011		

rcc	80%			70%			50%			30%			10%			0
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rfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.154	.154	.154	.132	.132	.132	.090	.090	.090	.052	.052	.052	.016	.016	.016	
1.0	.138	.127	.118	.118	.109	.101	.081	.075	.070	.046	.043	.041	.015	.014	.013	
2.0	.125	.107	.092	.107	.092	.080	.073	.064	.056	.042	.037	.033	.014	.012	.011	
3.0	.114	.092	.074	.098	.079	.064	.067	.055	.045	.039	.032	.027	.012	.010	.009	
4.0	.105	.080	.060	.090	.069	.052	.062	.048	.037	.036	.028	.022	.012	.009	.007	
5.0	.098	.070	.050	.084	.061	.043	.058	.042	.031	.033	.025	.018	.011	.008	.006	
6.0	.091	.062	.042	.079	.054	.036	.054	.038	.026	.031	.022	.015	.010	.007	.005	
7.0	.086	.056	.035	.074	.049	.031	.051	.034	.022	.030	.020	.013	.010	.007	.004	
8.0	.081	.051	.030	.070	.044	.026	.048	.031	.019	.028	.018	.011	.009	.006	.004	
9.0	.077	.047	.026	.066	.041	.023	.046	.029	.016	.027	.017	.010	.009	.006	.003	
10.0	.073	.043	.023	.063	.037	.020	.044	.026	.014	.026	.016	.009	.008	.005	.003	

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UGR(Unified Glare Rating) Table

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SPEC.:3000K					DIM.:			SERIAL No.:2208170672		
MFR.: RISE					SUR.:0.0063585m2			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	15.9	16.7	16.1	16.9	17.0	16.8	17.7	17.1	17.9	18.0
3H	15.7	16.5	16.0	16.7	16.9	16.7	17.5	17.0	17.7	17.9
4H	15.7	16.4	15.9	16.6	16.8	16.7	17.4	16.9	17.6	17.8
6H	15.6	16.3	15.9	16.5	16.8	16.6	17.3	16.9	17.5	17.8
8H	15.6	16.2	15.9	16.5	16.7	16.5	17.2	16.8	17.5	17.7
12H	15.5	16.2	15.8	16.4	16.7	16.5	17.1	16.8	17.4	17.7
4H 2H	15.6	16.4	15.9	16.6	16.8	16.6	17.4	16.9	17.6	17.8
3H	15.5	16.2	15.8	16.4	16.7	16.5	17.1	16.8	17.4	17.7
4H	15.5	16.0	15.8	16.3	16.7	16.4	17.0	16.8	17.3	17.6
6H	15.4	15.9	15.8	16.2	16.6	16.4	16.9	16.7	17.2	17.5
8H	15.3	15.8	15.7	16.2	16.5	16.3	16.8	16.7	17.1	17.5
12H	15.3	15.7	15.7	16.1	16.5	16.3	16.7	16.7	17.1	17.5
8H 4H	15.3	15.8	15.7	16.2	16.5	16.3	16.8	16.7	17.1	17.5
6H	15.3	15.7	15.7	16.0	16.5	16.2	16.6	16.6	17.0	17.4
8H	15.2	15.6	15.7	16.0	16.4	16.2	16.5	16.6	16.9	17.4
12H	15.2	15.5	15.6	15.9	16.4	16.1	16.4	16.6	16.9	17.3
12H 4H	15.3	15.7	15.7	16.1	16.5	16.2	16.7	16.7	17.1	17.4
6H	15.2	15.6	15.7	16.0	16.4	16.2	16.5	16.6	16.9	17.4
8H	15.2	15.5	15.6	15.9	16.4	16.1	16.4	16.6	16.9	17.3
Variations with the observer position at spacings:										
S = 1.0H	+ 3.0 / - 6.9					+ 3.8 / - 7.7				
1.5H	+ 5.2 / - 5.9					+ 6.0 / - 7.0				
2.0H	+ 4.9 / - 2.6					+ 6.0 / - 3.2				

CIE Pub.117, 2797 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 3.6$)
Area: 0.0063585 m2

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UTILIZATION FACTORS TABLE

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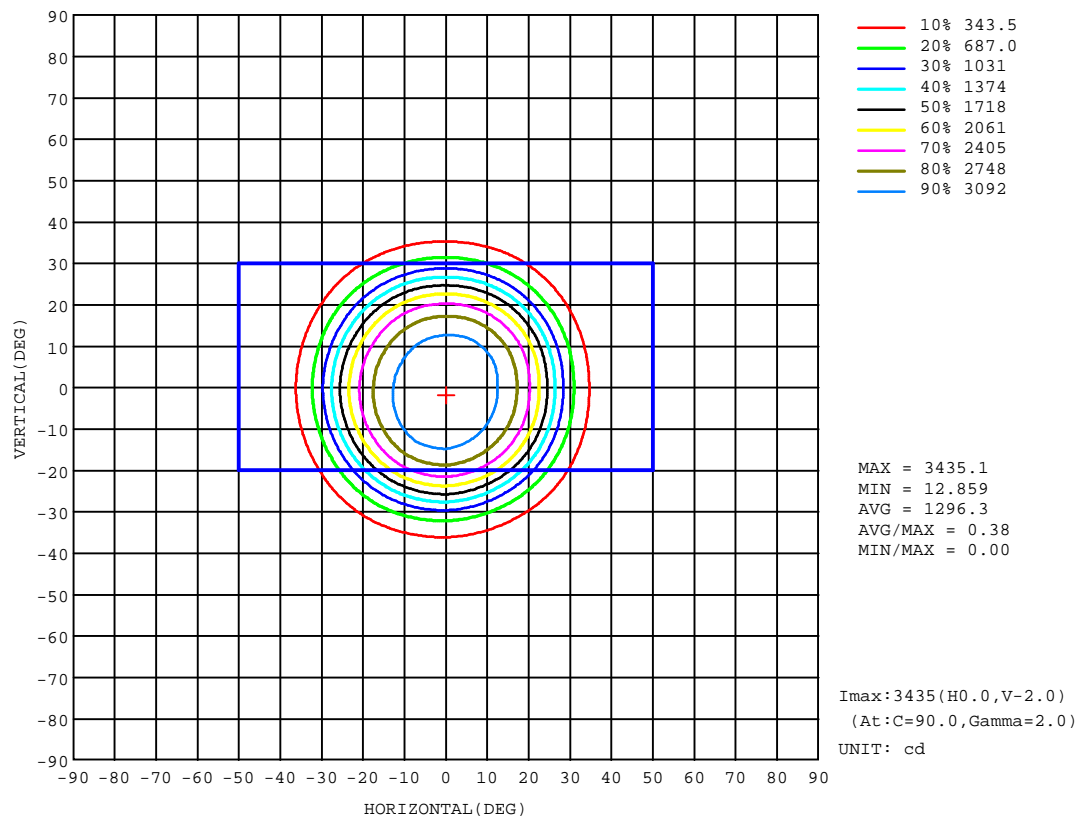
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	72	67	64	72	67	64	71	67	64	62
0.80	78	74	71	77	73	71	77	73	70	67
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	84	81	79	76
2.00	88	85	83	87	84	82	85	83	81	77
2.50	90	87	84	88	86	84	86	84	82	77
3.00	91	88	86	89	87	85	87	85	83	78
4.00	92	90	89	91	89	87	88	86	85	80
5.00	93	92	90	92	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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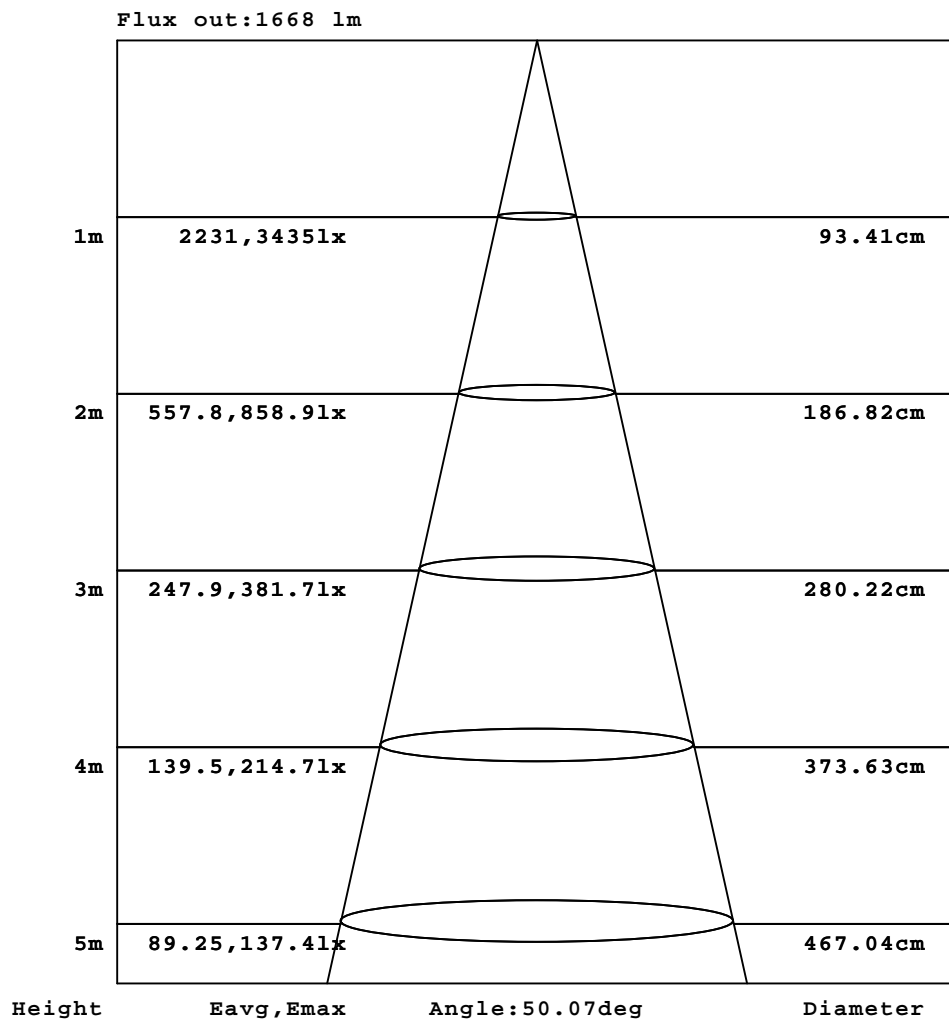


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AAI Figure

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SPEC.:3000K	DIM.:	SERIAL No.:2208170672
MFR.: RISE	SUR.:0.0063585m2	Shielding Angle:



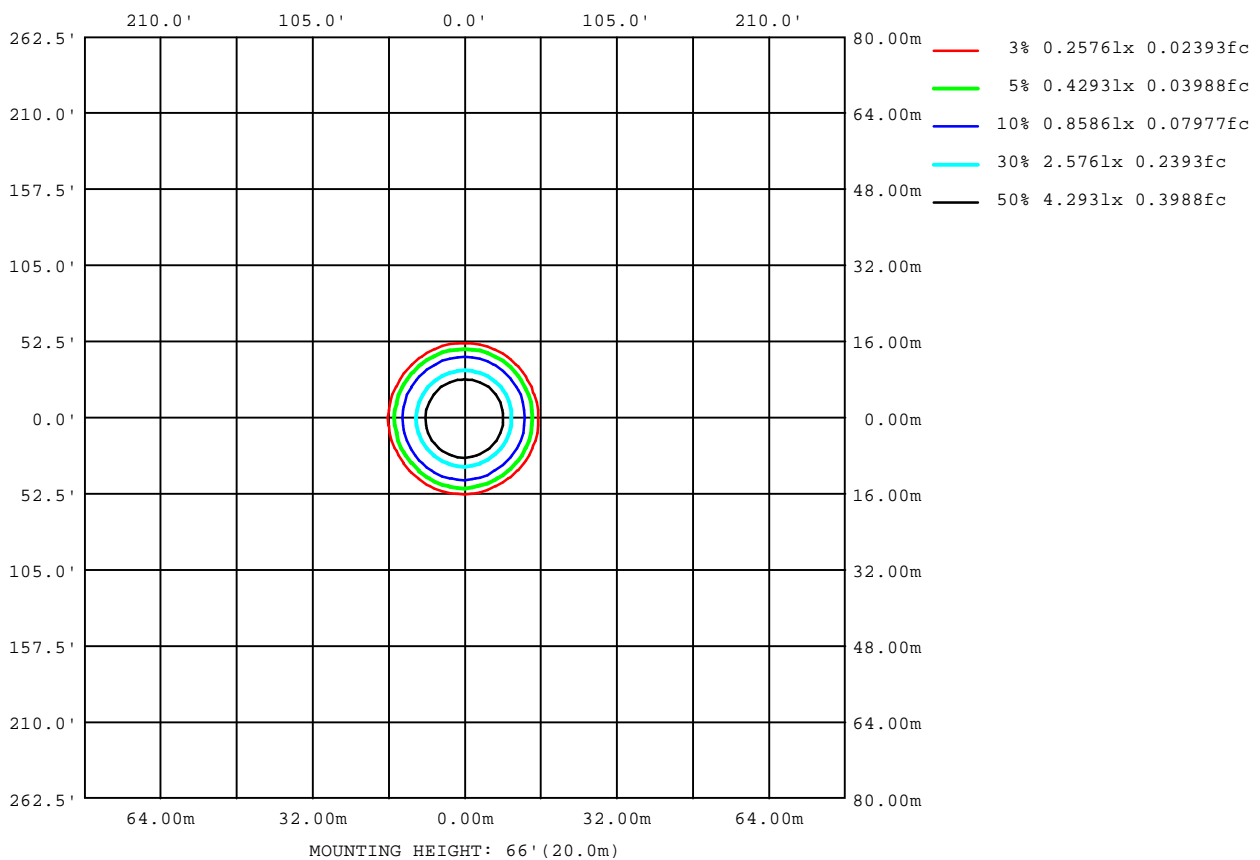
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zoe
Test Date:2022-8-17

g Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.416
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:BXRE-30G2000-C-83 Ra:90
LENS:PM-1083B 36R
DRIVER: PUP40A-1WMC-850 700mA
30minutes warm-up

ISOLUX DIAGRAM

Test:U:119.91V I:0.2313A P:27.497W PF:0.9899 Freq:59.98Hz Lamp Flux:2796.63x1 lm		
NAME: 2018.481-ACOT-84-AM	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2208170672
MFR.: RISE	SUR.:0.0063585m2	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zoe
Test Date:2022-8-17

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.416
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:BXRE-30G2000-C-83 Ra:90
LENS:PM-1083B 36R
DRIVER: PUP40A-1WMC-850 700mA
30minutes warm-up

LED Avg.L Report

Test:U:119.91V I:0.2313A P:27.497W PF:0.9899 Freq:59.98Hz Lamp Flux:2796.63x1 lm		
NAME: 2018.481-ACOT-84-AM	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2208170672
MFR.: RISE	SUR.:0.0063585m2	Shielding Angle:

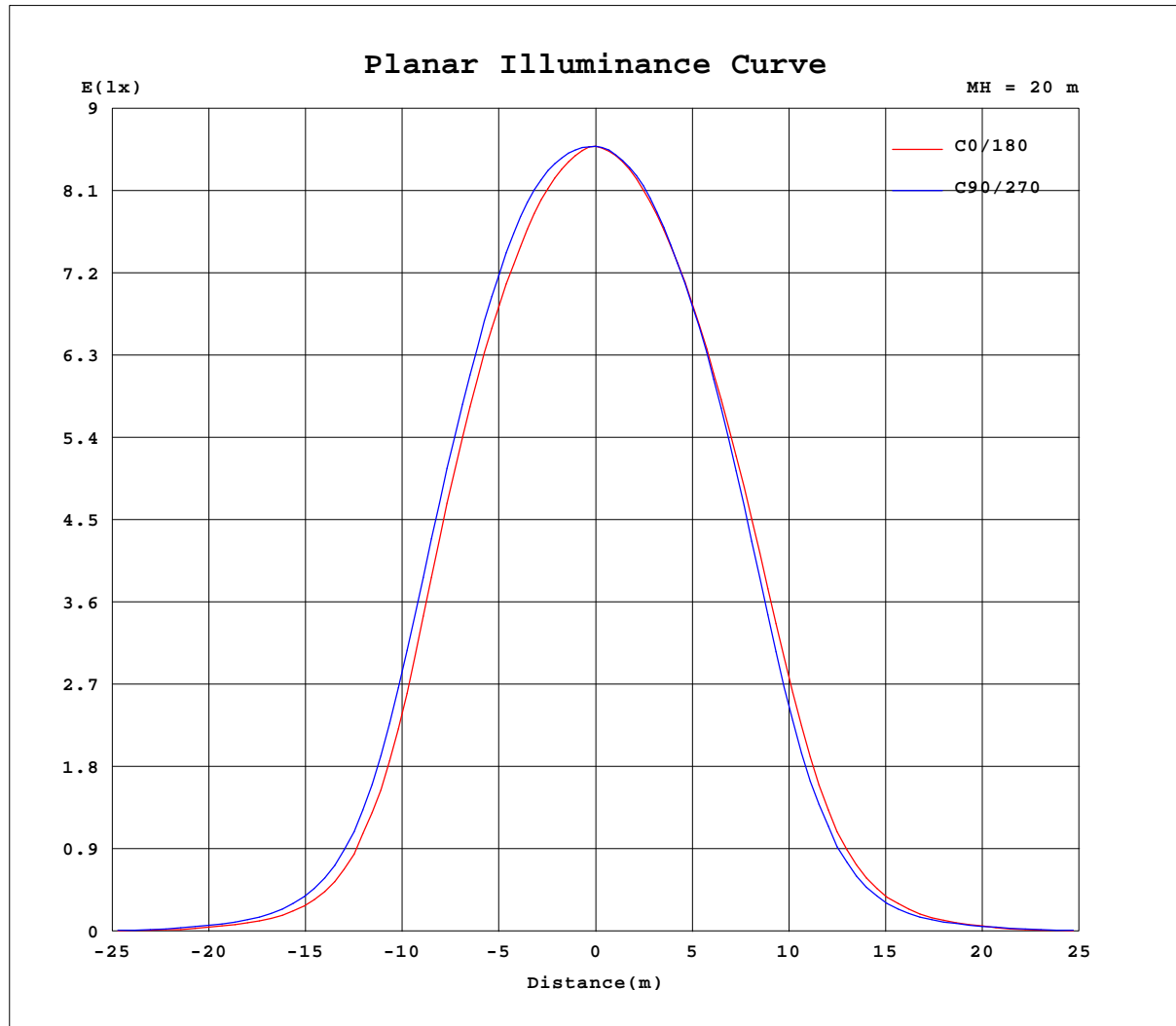
AvgL	cd/m2
L_0~180(65)av	2412
L_0~180(75)av	1747
L_0~180(85)av	1141
L_90~270(65)av	2448
L_90~270(75)av	1722
L_90~270(85)av	607
L_45(65)av	2589
L_45(75)av	1805
L_45(85)av	773

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zoe
Test Date:2022-8-17

g Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.416
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:BXRE-30G2000-C-83 Ra:90
LENS:PM-1083B 36R
DRIVER: PUP40A-1WMC-850 700mA
30minutes warm-up

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Zoe
 Test Date: 2022-8-17

deg Range: 0 - 180DEG
 Interval: 1.0DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.416
 Humidity: 65.0%
 Test Distance: 3.160m [K=1.0000]
 Remarks: LAMP: BXRE-30G2000-C-83 Ra: 90
 LENS: PM-1083B 36R
 DRIVER: PUP40A-1WMC-850 700mA
 30minutes warm-up



LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.91V I:0.2313A P:27.497W PF:0.9899 Freq:59.98Hz Lamp Flux:2796.63x1 lm		
NAME: 2018.481-ACOT-84-AM	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2208170672
MFR.: RISE	SUR.:0.0063585m2	Shielding Angle:

Table--1

UNIT: cd

C(°) g (°)	0	30	60	90	120	150	180	210	240	270	300	330						
0	3434	3434	3434	3434	3434	3434	3434	3434	3434	3434	3434	3434						
5	3373	3383	3404	3424	3424	3396	3371	3360	3371	3382	3390	3384						
10	3216	3240	3288	3339	3340	3272	3214	3205	3214	3225	3247	3245						
15	2930	2961	3015	3082	3087	3005	2944	2913	2923	2934	2961	2965						
20	2439	2489	2543	2616	2616	2545	2506	2452	2446	2427	2461	2480						
25	1622	1703	1766	1864	1879	1822	1810	1727	1697	1647	1683	1675						
30	805	838	886	991	1006	968	987	908	871	858	853	834						
35	320	350	370	427	437	414	430	388	371	355	354	329						
40	133	147	154	176	179	165	172	158	153	145	145	133						
45	57.5	65.9	70.8	77.8	81.1	74.6	70.5	75.3	71.8	68.6	65.6	61.7						
50	21.6	23.4	23.9	25.5	26.9	27.0	23.5	27.4	27.1	25.0	24.0	23.5						
55	12.8	14.3	14.2	14.8	15.9	15.9	13.8	16.2	16.0	14.6	14.4	14.6						
60	8.81	9.32	9.59	9.54	9.97	10.5	9.58	10.4	10.1	9.54	9.54	9.65						
65	6.17	6.52	6.67	6.47	7.00	7.21	6.80	7.19	7.15	6.68	6.76	6.78						
70	4.22	4.39	4.55	4.34	4.78	4.85	4.70	4.87	4.92	4.57	4.62	4.60						
75	2.69	2.72	2.89	2.78	3.04	3.02	3.06	3.04	3.16	2.89	2.93	2.85						
80	1.40	1.37	1.52	1.47	1.64	1.62	1.69	1.62	1.71	1.49	1.53	1.49						
85	0.53	0.39	0.35	0.35	0.43	0.52	0.74	0.56	0.47	0.32	0.33	0.41						
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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