

Luminaire Photograph



Light Output Ratio:	78.9%	
Luminaire Power:	27.51 W	
SHR Nominal:	0.75	Calculated using the TM5
SHR Maximum:	0.90	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
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-1083C 50R
DRIVER: PUP40A-1WMC-850 700mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

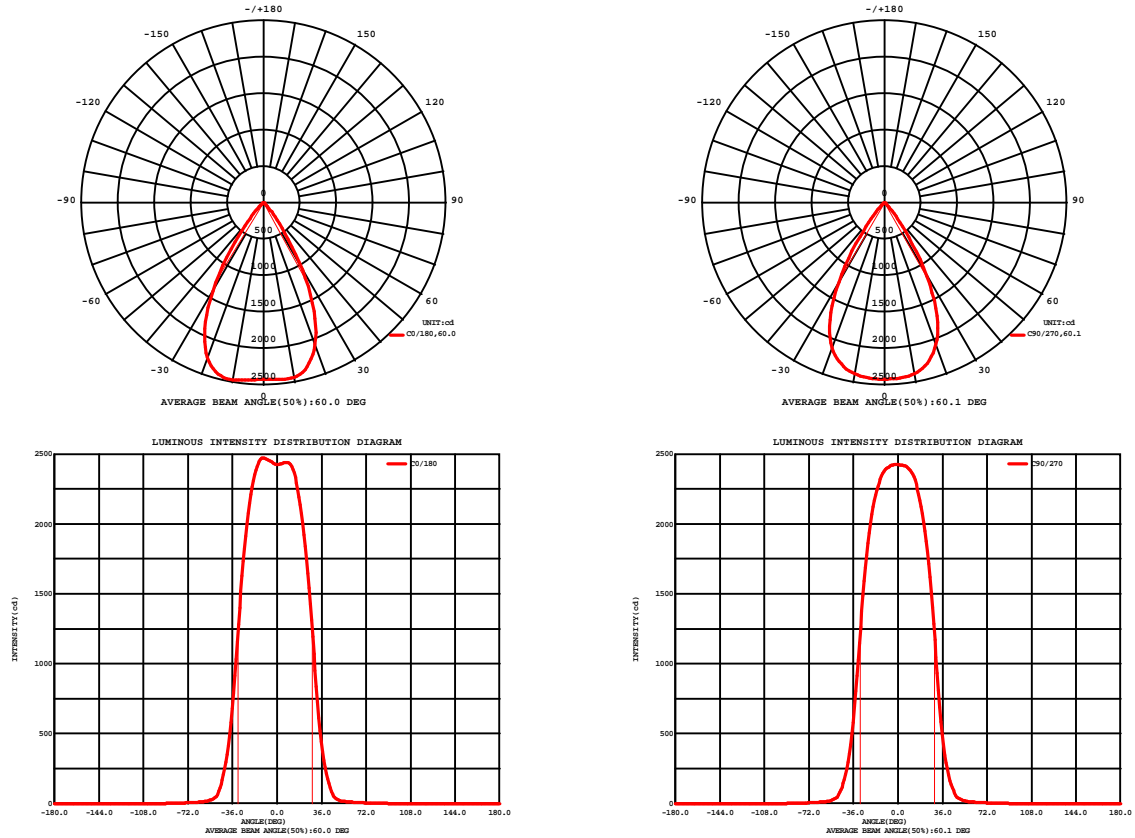


Fig. C0/C180

Fig. C90/C270

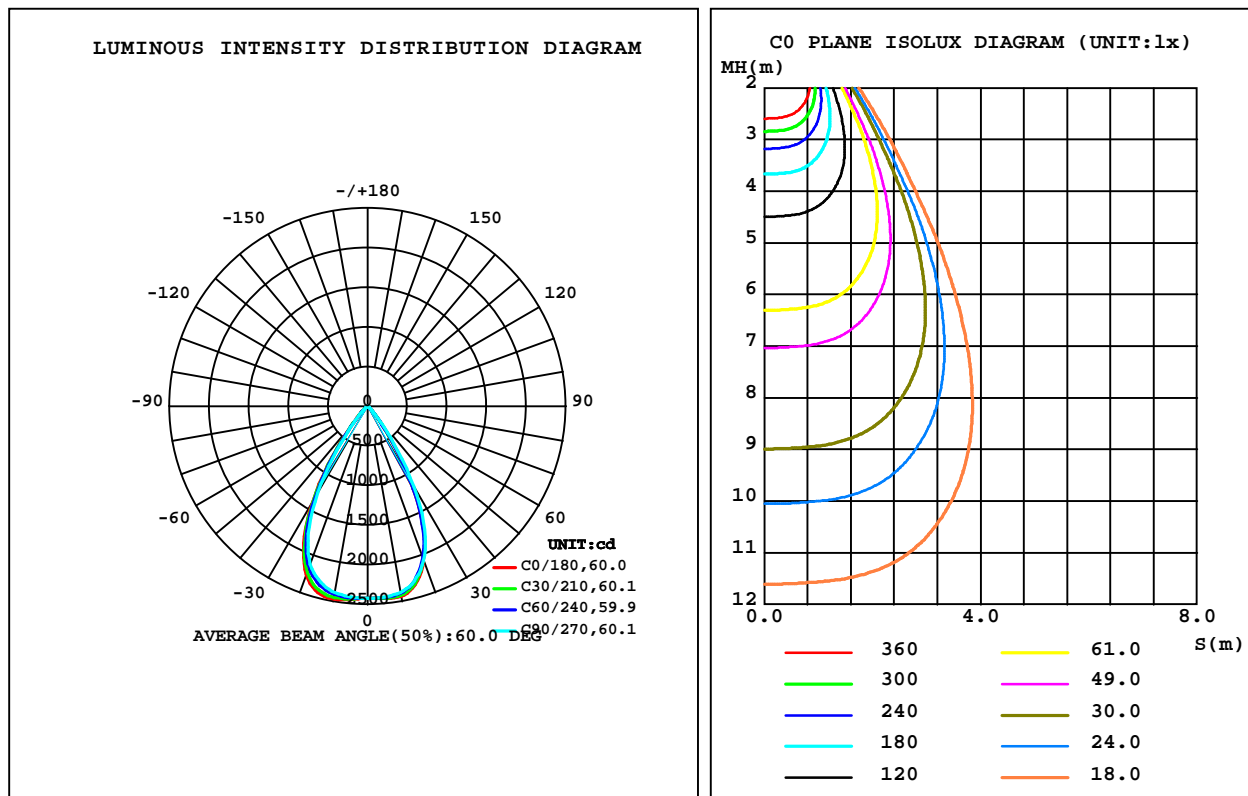
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LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.92V I:0.2314A P:27.511W PF:0.9898 Freq:59.98Hz Lamp Flux:2796.63x1 lm		
NAME: 2018.481-ACOT-84-AM	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2208170673
MFR.: RISE	SUR.:0.0063585m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 80.22 lm/W			
MODEL	Bridgelux	Imax(cd)	2471	S/MH(C0/180)	0.92
NOMINAL POWER(W)	27	LOR(%)	78.9	S/MH(C90/270)	0.89
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	2206.9	h UP,DN(C0-180)	0.0,38.1
NOMINAL FLUX(lm)	2796.63	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.0,40.8
LAMPS INSIDE	1	h up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	120	h down(%)	78.9	CIBSE SHR MAX	0.90



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30minutes warm-up

ZONAL FLUX DIAGRAM

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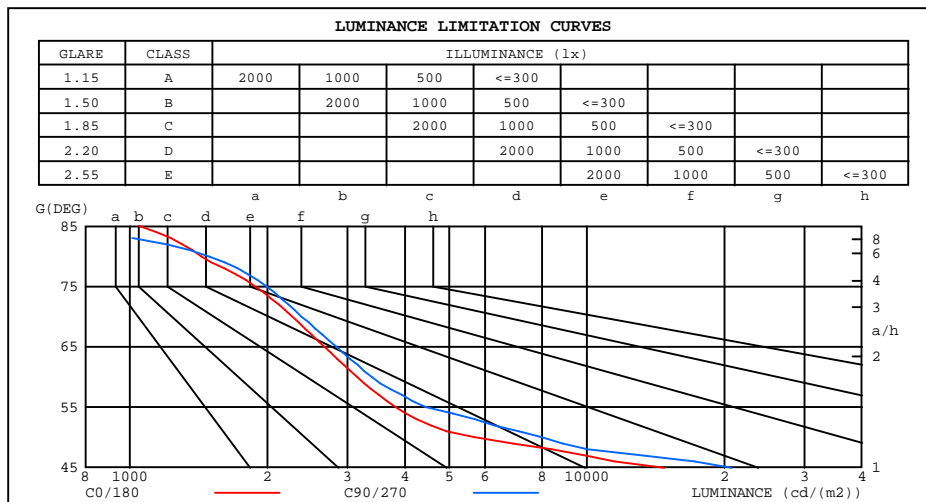
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	2433	2409	2384	2424	2469	2430	2387	2406	0- 10	231.5	231.5	10.5,8.28
20	2072	2053	2071	2158	2264	2200	2122	2093	10- 20	651.4	882.9	40,31.6
30	1071	1075	1168	1273	1400	1358	1263	1165	20- 30	787.7	1671	75.7,59.7
40	212.6	209.1	247.4	285.8	350.5	337.6	294.8	251.4	30- 40	414.2	2085	94.5,74.5
50	23.21	31.12	32.53	36.78	41.79	43.51	38.21	35.16	40- 50	91.70	2177	98.6,77.8
60	9.985	10.76	10.76	11.73	11.82	12.34	11.24	11.33	50- 60	17.78	2194	99.4,78.5
70	4.940	5.223	5.174	5.815	5.931	5.966	5.559	5.550	60- 70	8.098	2202	99.8,78.8
80	1.586	1.611	1.650	1.983	2.235	2.070	1.843	1.806	70- 80	3.779	2206	100,78.9
90	0	0	0	0	0	0	0	0	80- 90	0.7168	2207	100,78.9
100	0	0	0	0	0	0	0	0	90-100	0	2207	100,78.9
110	0	0	0	0	0	0	0	0	100-110	0	2207	100,78.9
120	0	0	0	0	0	0	0	0	110-120	0	2207	100,78.9
130	0	0	0	0	0	0	0	0	120-130	0	2207	100,78.9
140	0	0	0	0	0	0	0	0	130-140	0	2207	100,78.9
150	0	0	0	0	0	0	0	0	140-150	0	2207	100,78.9
160	0	0	0	0	0	0	0	0	150-160	0	2207	100,78.9
170	0	0	0	0	0	0	0	0	160-170	0	2207	100,78.9
180	0	0	0	0	0	0	0	0	170-180	0	2207	100,78.9
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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Interval: 1.0DEG
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LENS:PM-1083C 50R
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30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:119.92V I:0.2314A P:27.511W PF:0.9898 Freq:59.98Hz Lamp Flux:2796.63x1 lm		
NAME: 2018.481-ACOT-84-AM	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2208170673
MFR.: RISE	SUR.:0.0063585m2	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	1046	536
80	1437	1494
75	1885	1993
70	2272	2379
65	2670	2833
60	3142	3383
55	3812	4437
50	5682	7957
45	14813	20727

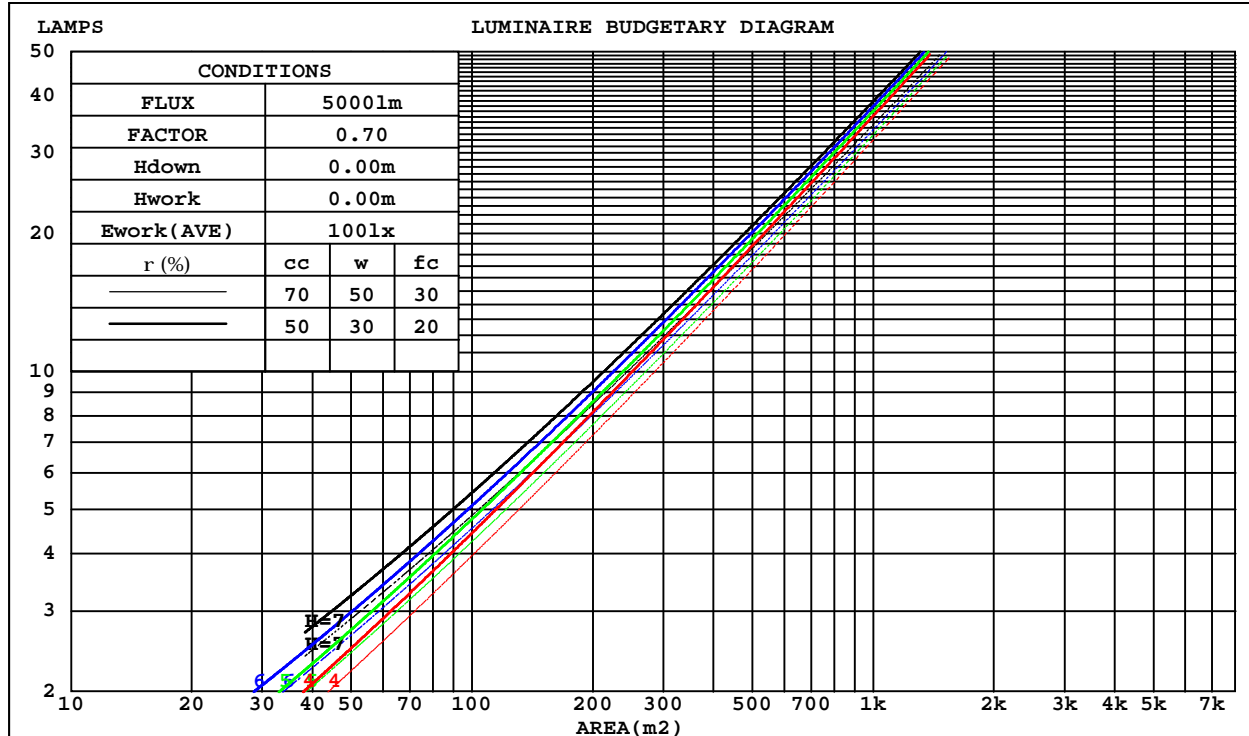
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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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
r 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.:2208170673
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	.138	.079	.025	.133	.076	.024	.123	.070	.023	.114	.066	.021	.105	.061	.020	
2.0	.132	.072	.022	.128	.070	.022	.119	.066	.021	.112	.063	.020	.104	.059	.019	
3.0	.126	.067	.020	.122	.065	.020	.115	.062	.019	.108	.059	.018	.102	.057	.018	
4.0	.120	.062	.018	.117	.061	.018	.110	.059	.017	.105	.056	.017	.099	.054	.016	
5.0	.114	.058	.017	.111	.057	.017	.106	.055	.016	.101	.053	.016	.096	.052	.015	
6.0	.109	.055	.016	.107	.054	.016	.102	.052	.015	.098	.051	.015	.093	.049	.015	
7.0	.104	.052	.015	.102	.051	.015	.098	.050	.014	.094	.048	.014	.091	.047	.014	
8.0	.100	.049	.014	.098	.048	.014	.094	.047	.013	.091	.046	.013	.088	.045	.013	
9.0	.096	.046	.013	.094	.046	.013	.091	.045	.013	.088	.044	.013	.085	.043	.012	
10.0	.092	.044	.012	.091	.044	.012	.088	.043	.012	.085	.042	.012	.082	.041	.012	

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						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.150	.150	.150	.128	.128	.128	.088	.088	.088	.050	.050	.050	.016	.016	.016	
1.0	.135	.124	.114	.115	.107	.098	.079	.073	.068	.045	.042	.040	.015	.014	.013	
2.0	.123	.105	.089	.105	.090	.077	.072	.062	.054	.042	.036	.032	.013	.012	.010	
3.0	.113	.090	.071	.097	.077	.062	.066	.054	.043	.038	.031	.025	.012	.010	.008	
4.0	.105	.078	.057	.090	.067	.050	.062	.047	.035	.036	.028	.021	.012	.009	.007	
5.0	.098	.069	.047	.084	.060	.041	.058	.042	.029	.034	.024	.017	.011	.008	.006	
6.0	.092	.061	.039	.079	.053	.034	.055	.037	.024	.032	.022	.014	.010	.007	.005	
7.0	.087	.055	.033	.075	.048	.029	.052	.034	.021	.030	.020	.012	.010	.007	.004	
8.0	.083	.051	.029	.071	.044	.025	.049	.031	.018	.029	.018	.011	.009	.006	.003	
9.0	.079	.046	.025	.068	.040	.022	.047	.028	.015	.027	.017	.009	.009	.005	.003	
10.0	.075	.043	.022	.065	.037	.019	.045	.026	.013	.026	.016	.008	.008	.005	.003	

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30minutes warm-up

UGR(Unified Glare Rating) Table

Test:U:119.92V I:0.2314A P:27.511W PF:0.9898 Freq:59.98Hz Lamp Flux:2796.63x1 lm										
NAME: 2018.481-ACOT-84-AM					TYPE:			WEIGHT:		
SPEC.:3000K					DIM.:			SERIAL No.:2208170673		
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	18.5	19.5	18.7	19.6	19.8	18.9	19.8	19.1	20.0	20.1
3H	18.4	19.2	18.6	19.4	19.6	18.7	19.6	19.0	19.8	20.0
4H	18.3	19.1	18.6	19.3	19.6	18.6	19.5	18.9	19.7	19.9
6H	18.2	19.0	18.5	19.2	19.5	18.6	19.3	18.9	19.6	19.8
8H	18.2	18.9	18.5	19.2	19.4	18.5	19.3	18.8	19.5	19.8
12H	18.1	18.8	18.5	19.1	19.4	18.5	19.2	18.8	19.4	19.7
4H 2H	18.3	19.1	18.6	19.3	19.5	18.6	19.4	18.9	19.7	19.9
3H	18.1	18.8	18.5	19.1	19.4	18.5	19.2	18.8	19.5	19.7
4H	18.1	18.7	18.4	19.0	19.3	18.4	19.0	18.8	19.3	19.6
6H	18.0	18.5	18.4	18.9	19.2	18.3	18.9	18.7	19.2	19.6
8H	17.9	18.5	18.3	18.8	19.2	18.3	18.8	18.7	19.2	19.5
12H	17.9	18.4	18.3	18.7	19.1	18.2	18.7	18.6	19.1	19.5
8H 4H	17.9	18.5	18.3	18.8	19.2	18.3	18.8	18.7	19.1	19.5
6H	17.9	18.3	18.3	18.7	19.1	18.2	18.6	18.6	19.0	19.4
8H	17.8	18.2	18.3	18.6	19.0	18.1	18.5	18.6	18.9	19.4
12H	17.8	18.1	18.2	18.5	19.0	18.1	18.4	18.6	18.9	19.3
12H 4H	17.9	18.4	18.3	18.7	19.1	18.2	18.7	18.6	19.1	19.5
6H	17.8	18.2	18.3	18.6	19.0	18.1	18.5	18.6	18.9	19.4
8H	17.8	18.1	18.2	18.5	19.0	18.1	18.4	18.6	18.9	19.3
Variations with the observer position at spacings:										
S = 1.0H	+ 3.7 / - 8.8					+ 4.1 / - 8.8				
1.5H	+ 6.1 / - 7.9					+ 6.4 / - 8.0				
2.0H	+ 4.8 / - 2.7					+ 6.2 / - 3.3				

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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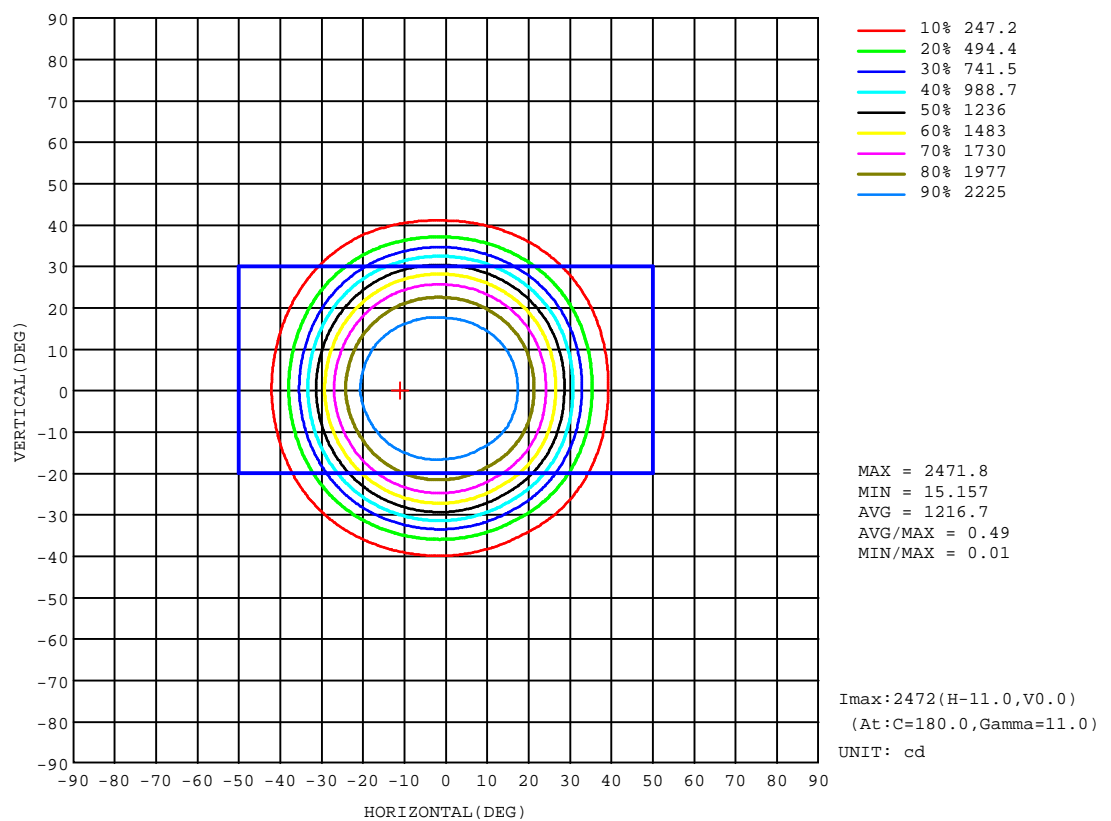
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	70	65	62	69	64	62	69	64	62	59
0.80	75	71	68	75	71	68	74	70	68	65
1.00	79	74	72	78	74	71	77	74	71	68
1.25	82	78	75	81	77	75	79	76	74	71
1.50	84	80	78	83	80	77	81	79	76	73
2.00	86	83	80	85	82	80	83	80	78	74
2.50	87	84	82	86	83	81	84	81	80	75
3.00	88	86	84	87	85	83	84	83	81	76
4.00	90	88	86	88	87	85	86	84	83	77
5.00	91	89	88	89	88	87	86	85	84	78
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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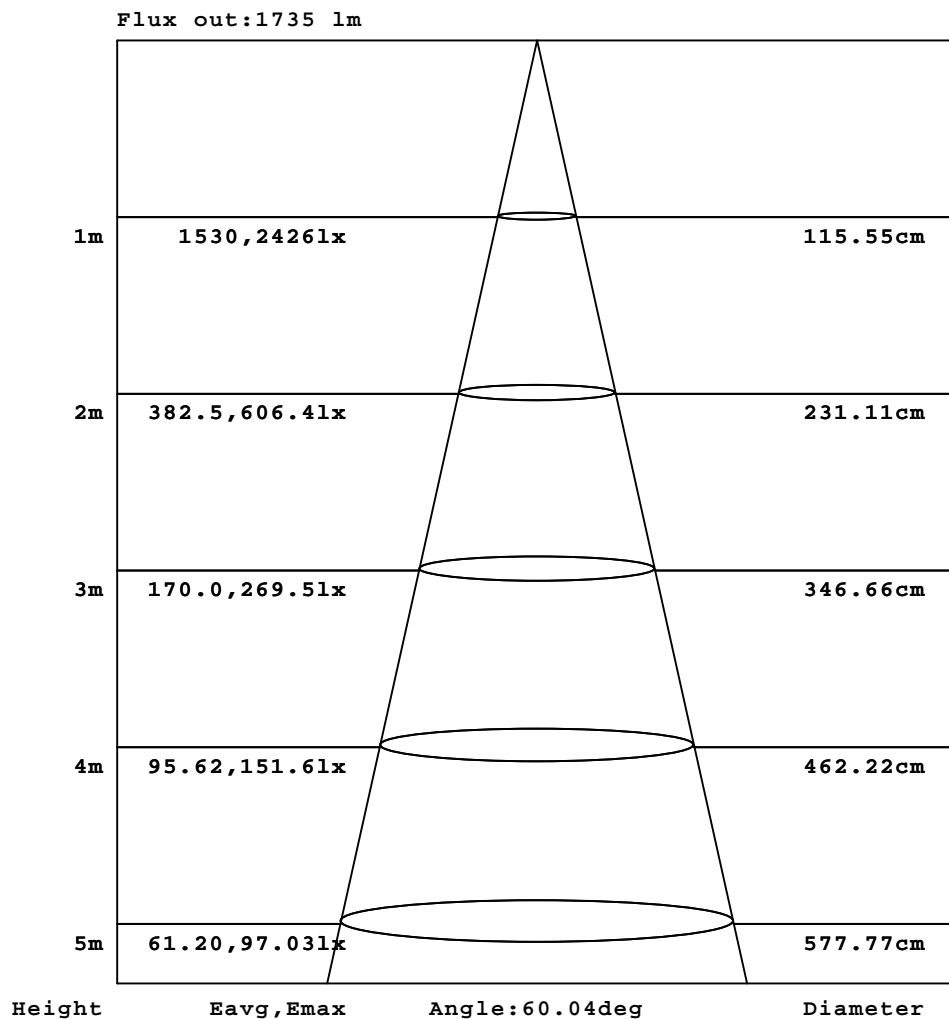


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AAI Figure

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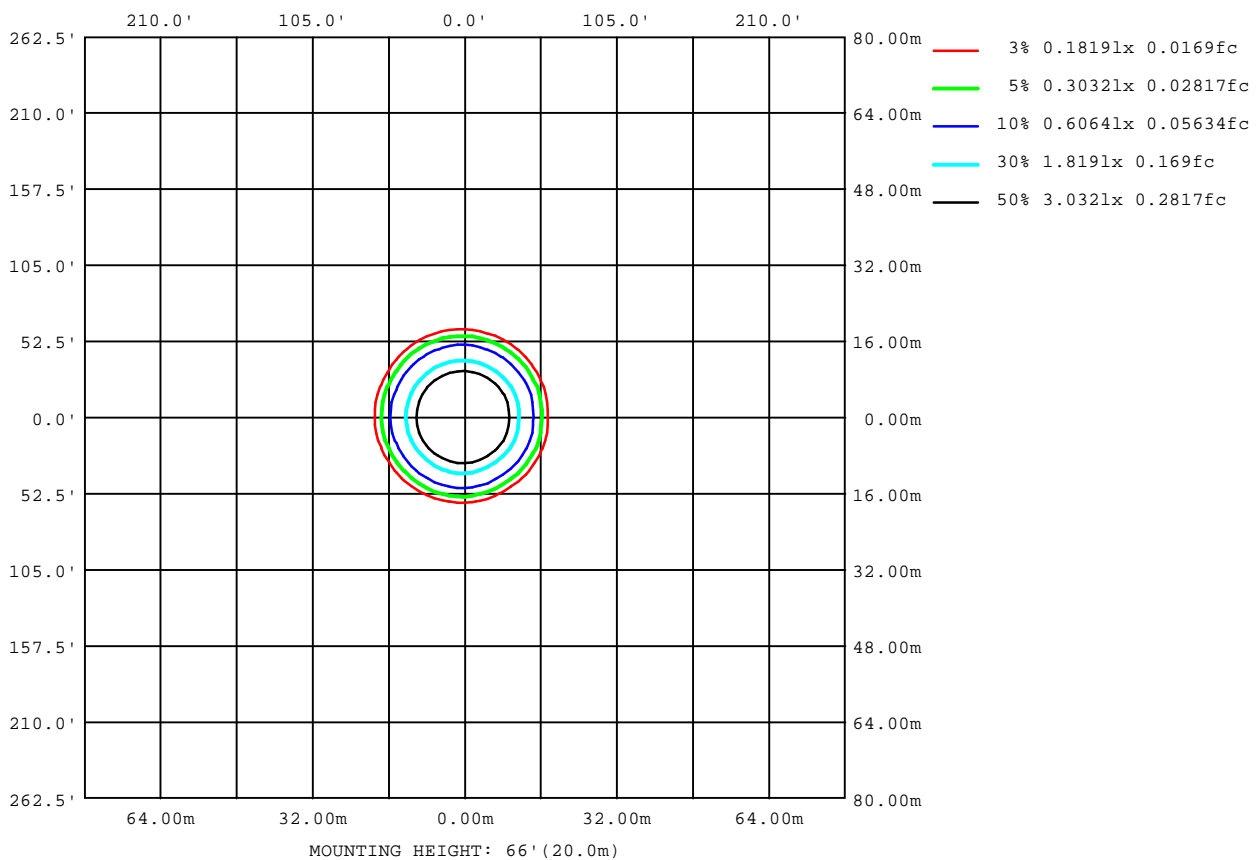
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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MFR.: RISE	SUR.:0.0063585m2	Shielding Angle:



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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-1083C 50R
DRIVER: PUP40A-1WMC-850 700mA
30minutes warm-up

LED Avg.L Report

Test:U:119.92V I:0.2314A P:27.511W PF:0.9898 Freq:59.98Hz Lamp Flux:2796.63x1 lm		
NAME: 2018.481-ACOT-84-AM	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2208170673
MFR.: RISE	SUR.:0.0063585m2	Shielding Angle:

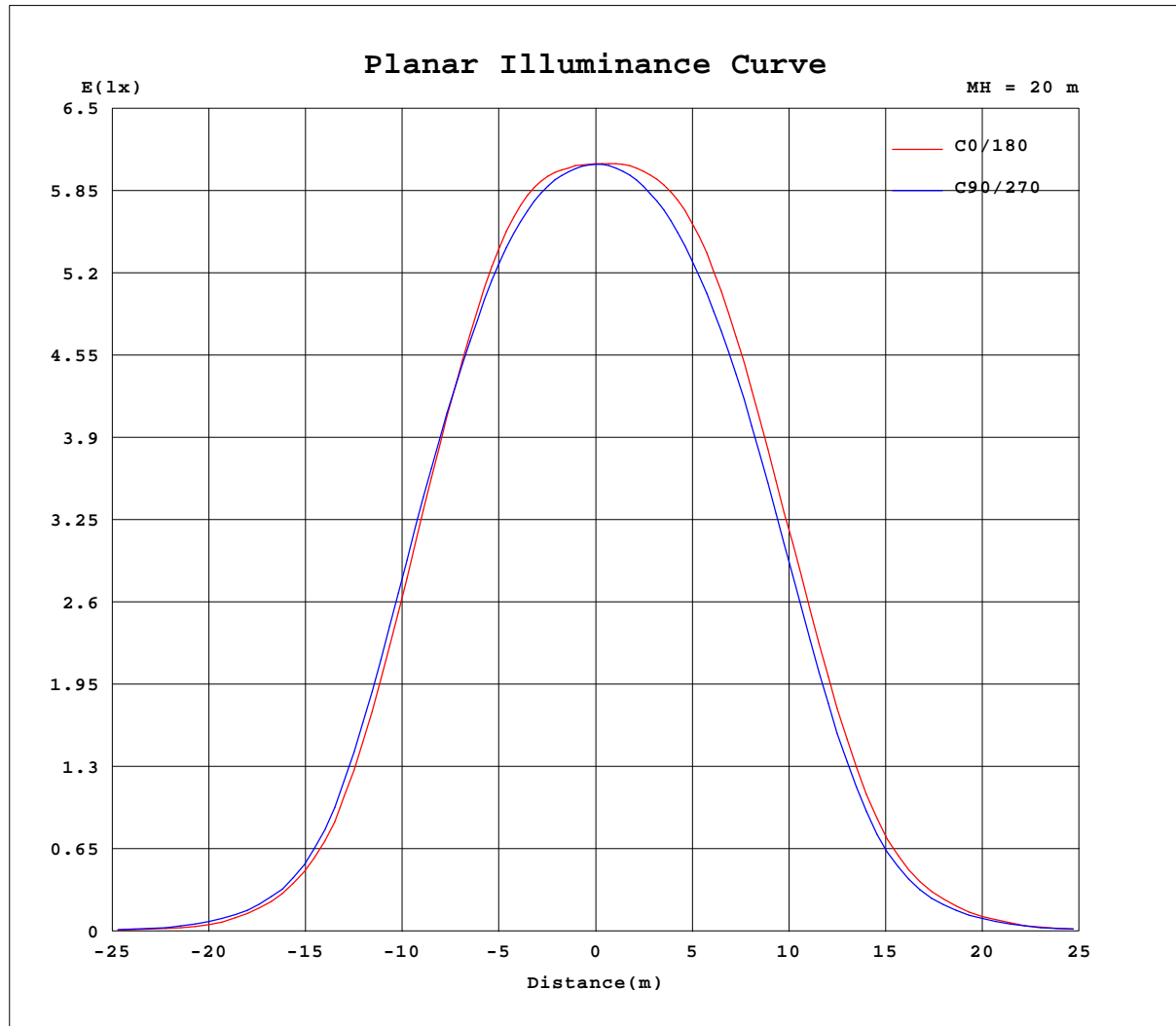
AvgL	cd/m2
L_0~180(65)av	2908
L_0~180(75)av	2134
L_0~180(85)av	1364
L_90~270(65)av	2916
L_90~270(75)av	2073
L_90~270(85)av	637
L_45(65)av	3070
L_45(75)av	2170
L_45(85)av	844

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-1083C 50R
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-1083C 50R
 DRIVER: PUP40A-1WMC-850 700mA
 30minutes warm-up



LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.92V I:0.2314A P:27.511W PF:0.9898 Freq:59.98Hz Lamp Flux:2796.63x1 lm		
NAME: 2018.481-ACOT-84-AM	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2208170673
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	2425	2425	2425	2425	2425	2425	2425	2425	2425	2425	2425	2425						
5	2433	2431	2421	2417	2424	2437	2447	2441	2428	2418	2418	2427						
10	2433	2422	2396	2384	2404	2444	2469	2450	2410	2387	2395	2417						
15	2331	2313	2280	2283	2323	2384	2434	2398	2339	2297	2302	2326						
20	2072	2067	2039	2071	2124	2192	2264	2234	2167	2122	2093	2092						
25	1646	1658	1640	1715	1779	1835	1911	1889	1837	1776	1730	1698						
30	1071	1079	1070	1168	1237	1309	1400	1379	1337	1263	1190	1141						
35	520	518	508	586	635	699	791	781	750	692	616	571						
40	213	215	203	247	270	302	351	343	333	295	263	240						
45	66.6	83.2	80.8	93.2	106	119	139	139	135	118	105	94.6						
50	23.2	31.4	30.8	32.5	35.2	38.4	41.8	43.8	43.2	38.2	36.2	34.1						
55	13.9	15.9	16.0	16.2	17.3	20.3	19.9	22.3	21.1	17.6	18.7	17.7						
60	9.98	10.7	10.8	10.8	11.3	12.1	11.8	12.6	12.1	11.2	11.4	11.3						
65	7.17	7.56	7.79	7.61	8.18	8.61	8.46	8.71	8.54	8.06	8.18	8.05						
70	4.94	5.10	5.35	5.17	5.66	5.97	5.93	6.00	5.94	5.56	5.64	5.46						
75	3.10	3.08	3.35	3.28	3.63	3.81	3.92	3.82	3.84	3.54	3.59	3.34						
80	1.59	1.55	1.67	1.65	1.91	2.05	2.24	2.04	2.10	1.84	1.87	1.74						
85	0.58	0.36	0.24	0.30	0.43	0.66	0.93	0.69	0.60	0.41	0.40	0.44						
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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Temperature:25.3DEG
Operators:Zoe
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