

Luminaire Photograph



Light Output Ratio:	77.8%	
Luminaire Power:	27.47 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: 25.3DEG
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-1083 15R
DRIVER: PUP40A-1WMC-850 700mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

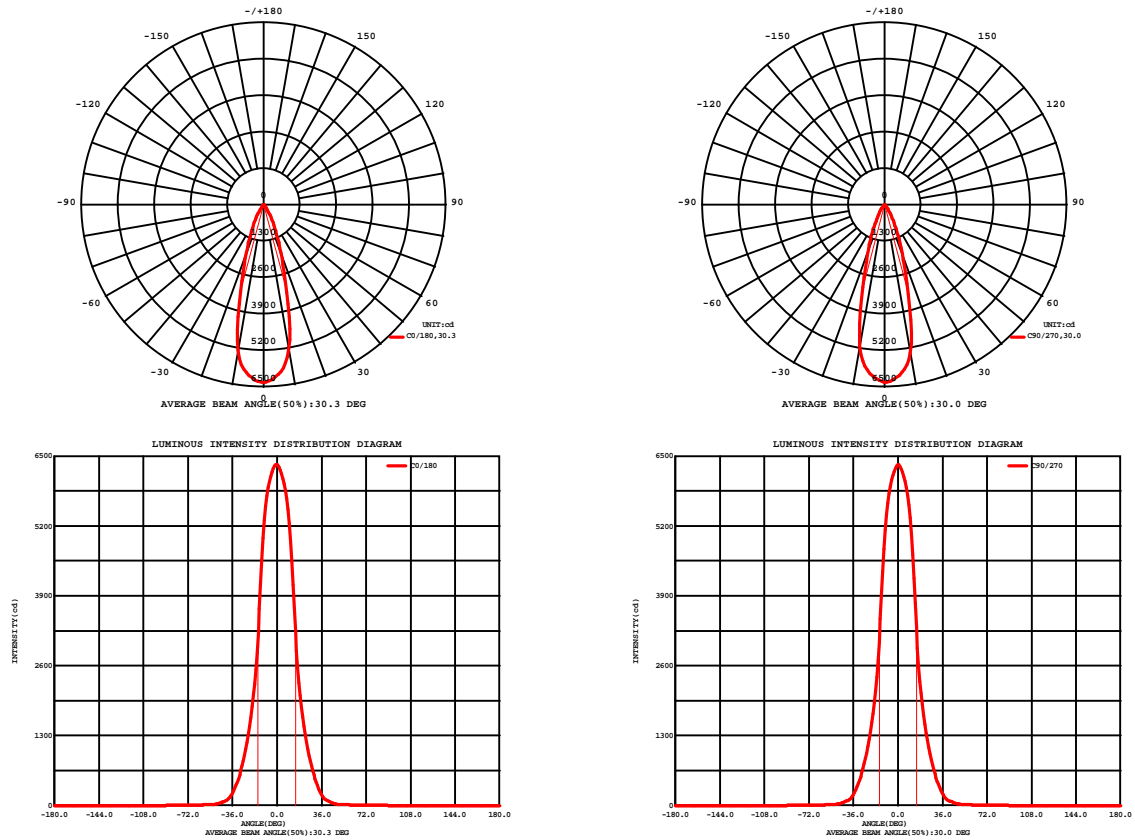


Fig. C0/C180

Fig. C90/C270

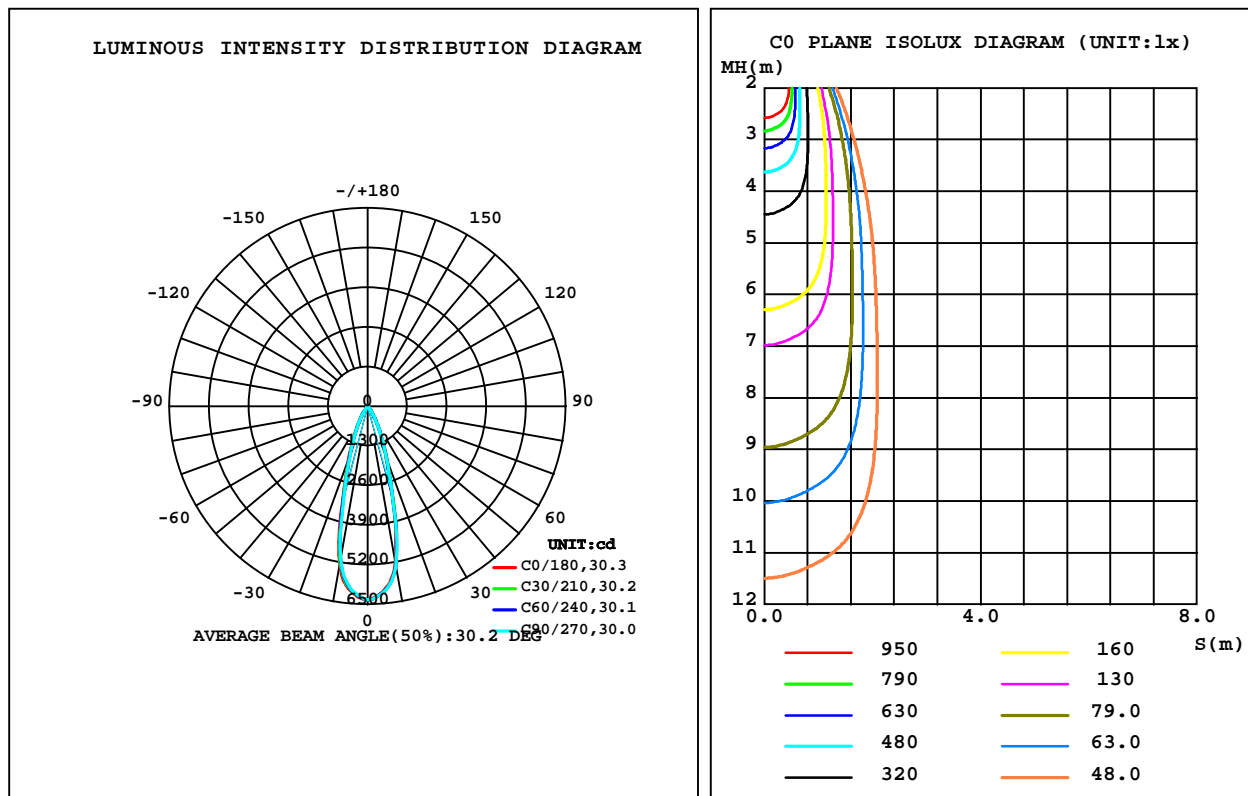
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30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.80V I:0.2311A P:27.468W PF:0.9909 Freq:59.98Hz Lamp Flux:2796.63x1 lm		
NAME: 2018.481-ACOT-84-AM	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2208170670
MFR.: RISE	SUR.:0.0063585m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 79.17 lm/W			
MODEL	Bridgelux	Imax(cd)	6343	S/MH(C0/180)	0.51
NOMINAL POWER(W)	27	LOR(%)	77.8	S/MH(C90/270)	0.49
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	2174.5	h UP,DN(C0-180)	0.0,39.3
NOMINAL FLUX(lm)	2796.63	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.0,38.4
LAMPS INSIDE	1	h up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	120	h down(%)	77.8	CIBSE SHR MAX	0.50



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ZONAL FLUX DIAGRAM

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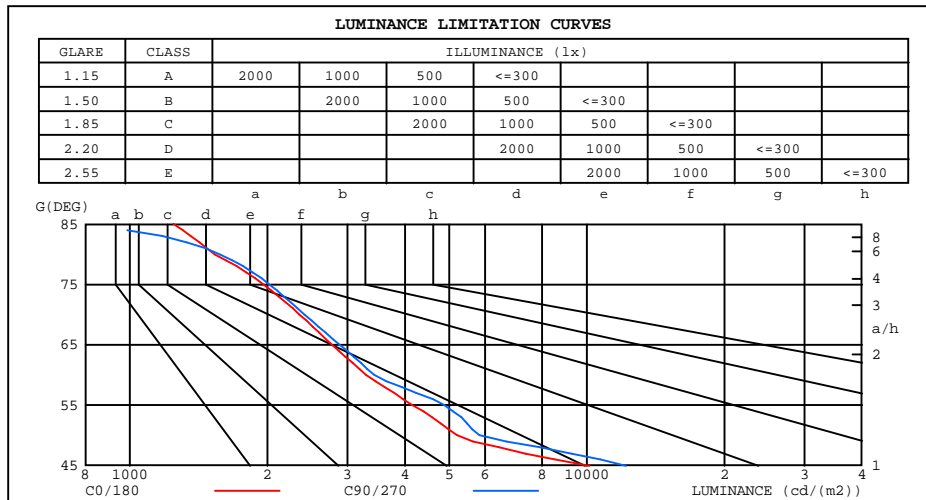
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	5248	5329	5353	5259	5302	5196	5125	5241	0- 10	557.0	557.0	25.6,19.9
20	1831	1868	1880	1799	1844	1754	1713	1824	10- 20	894.3	1451	66.7,51.9
30	561.7	568.3	584.8	551.4	565.5	533.6	527.8	556.7	20- 30	482.6	1934	88.9,69.2
40	97.23	101.0	106.0	100.4	103.1	95.54	94.10	98.75	30- 40	171.7	2106	96.8,75.3
50	21.25	22.72	23.82	23.02	23.61	22.96	22.45	22.98	40- 50	41.28	2147	98.7,76.8
60	10.45	11.13	10.92	11.48	11.32	11.37	10.86	11.63	50- 60	15.29	2162	99.4,77.3
70	5.124	5.353	5.254	5.631	5.467	5.455	5.306	5.651	60- 70	7.986	2170	99.8,77.6
80	1.697	1.632	1.741	1.881	1.864	1.706	1.647	1.855	70- 80	3.659	2174	100,77.7
90	0	0	0	0	0	0	0	0	80- 90	0.6832	2175	100,77.8
100	0	0	0	0	0	0	0	0	90-100	0	2175	100,77.8
110	0	0	0	0	0	0	0	0	100-110	0	2175	100,77.8
120	0	0	0	0	0	0	0	0	110-120	0	2175	100,77.8
130	0	0	0	0	0	0	0	0	120-130	0	2175	100,77.8
140	0	0	0	0	0	0	0	0	130-140	0	2175	100,77.8
150	0	0	0	0	0	0	0	0	140-150	0	2175	100,77.8
160	0	0	0	0	0	0	0	0	150-160	0	2175	100,77.8
170	0	0	0	0	0	0	0	0	160-170	0	2175	100,77.8
180	0	0	0	0	0	0	0	0	170-180	0	2175	100,77.8
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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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.:2208170670
MFR.: RISE	SUR.:0.0063585m2	Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	1246	771
80	1537	1577
75	1966	2025
70	2356	2416
65	2778	2881
60	3286	3436
55	4155	4869
50	5199	5828
45	10152	12197

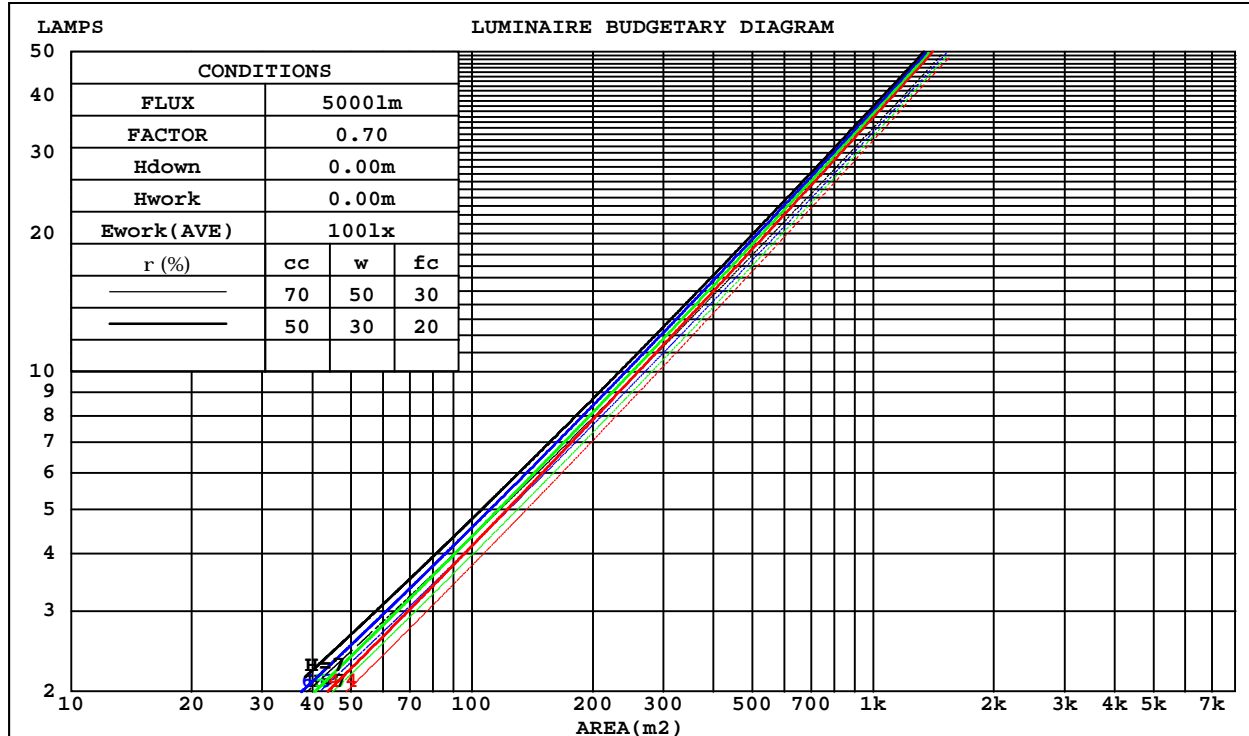
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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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															



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WEC AND CCEC

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SPEC.:3000K	DIM.:	SERIAL No.:2208170670
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	.118	.067	.021	.112	.064	.020	.103	.059	.019	.094	.054	.017	.086	.050	.016	
2.0	.110	.060	.019	.106	.058	.018	.098	.054	.017	.091	.051	.016	.084	.047	.015	
3.0	.104	.055	.017	.100	.054	.016	.093	.051	.015	.087	.048	.015	.081	.045	.014	
4.0	.098	.051	.015	.095	.050	.015	.089	.047	.014	.084	.045	.014	.079	.043	.013	
5.0	.092	.047	.014	.090	.046	.013	.085	.044	.013	.080	.042	.013	.076	.041	.012	
6.0	.088	.044	.013	.086	.043	.012	.081	.042	.012	.077	.040	.012	.074	.039	.011	
7.0	.084	.041	.012	.082	.041	.012	.078	.039	.011	.074	.038	.011	.071	.037	.011	
8.0	.080	.039	.011	.078	.038	.011	.075	.037	.011	.072	.036	.010	.069	.035	.010	
9.0	.076	.037	.010	.075	.037	.010	.072	.036	.010	.069	.035	.010	.067	.034	.010	
10.0	.073	.035	.010	.072	.035	.010	.069	.034	.010	.067	.033	.009	.065	.032	.009	

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	.148	.148	.148	.127	.127	.127	.086	.086	.086	.050	.050	.050	.016	.016	.016	
1.0	.132	.122	.114	.113	.105	.098	.077	.072	.068	.044	.042	.040	.014	.013	.013	
2.0	.118	.103	.090	.101	.089	.078	.069	.061	.054	.040	.036	.032	.013	.012	.010	
3.0	.107	.088	.073	.092	.076	.063	.063	.053	.044	.037	.031	.026	.012	.010	.009	
4.0	.098	.076	.060	.084	.066	.052	.058	.046	.036	.034	.027	.022	.011	.009	.007	
5.0	.091	.067	.050	.078	.058	.043	.054	.040	.030	.031	.024	.018	.010	.008	.006	
6.0	.084	.059	.042	.072	.051	.036	.050	.036	.026	.029	.021	.015	.009	.007	.005	
7.0	.079	.053	.035	.068	.046	.031	.047	.032	.022	.027	.019	.013	.009	.006	.004	
8.0	.074	.048	.031	.063	.042	.027	.044	.029	.019	.026	.017	.011	.008	.006	.004	
9.0	.069	.044	.027	.060	.038	.023	.041	.027	.016	.024	.016	.010	.008	.005	.003	
10.0	.066	.040	.023	.057	.035	.020	.039	.025	.014	.023	.015	.009	.007	.005	.003	

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30minutes warm-up

UGR(Unified Glare Rating) Table

Test:U:119.80V I:0.2311A P:27.468W PF:0.9909 Freq:59.98Hz Lamp Flux:2796.63x1 lm										
NAME: 2018.481-ACOT-84-AM					TYPE:			WEIGHT:		
SPEC.:3000K					DIM.:			SERIAL No.:2208170670		
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	14.3	15.1	14.6	15.3	15.4	14.5	15.2	14.7	15.4	15.5
3H	14.3	15.0	14.5	15.2	15.4	14.4	15.1	14.7	15.3	15.5
4H	14.3	14.9	14.5	15.1	15.4	14.4	15.1	14.7	15.3	15.5
6H	14.2	14.8	14.5	15.1	15.3	14.4	15.0	14.6	15.2	15.5
8H	14.2	14.8	14.5	15.0	15.3	14.3	14.9	14.6	15.2	15.4
12H	14.1	14.7	14.5	15.0	15.2	14.3	14.9	14.6	15.1	15.4
4H 2H	14.2	14.8	14.5	15.1	15.3	14.3	15.0	14.6	15.2	15.4
3H	14.2	14.7	14.5	15.0	15.3	14.3	14.9	14.6	15.1	15.4
4H	14.1	14.7	14.5	15.0	15.3	14.3	14.8	14.6	15.1	15.4
6H	14.1	14.6	14.5	14.9	15.2	14.2	14.7	14.6	15.0	15.4
8H	14.1	14.5	14.4	14.8	15.2	14.2	14.6	14.6	15.0	15.4
12H	14.0	14.4	14.4	14.8	15.2	14.2	14.6	14.6	14.9	15.3
8H 4H	14.0	14.5	14.4	14.8	15.2	14.2	14.6	14.6	15.0	15.3
6H	14.0	14.3	14.4	14.7	15.2	14.1	14.5	14.6	14.9	15.3
8H	14.0	14.3	14.4	14.7	15.1	14.1	14.4	14.6	14.8	15.3
12H	13.9	14.2	14.4	14.6	15.1	14.1	14.3	14.5	14.8	15.2
12H 4H	14.0	14.4	14.4	14.7	15.1	14.1	14.5	14.5	14.9	15.3
6H	13.9	14.3	14.4	14.7	15.1	14.1	14.4	14.5	14.8	15.3
8H	13.9	14.2	14.4	14.6	15.1	14.1	14.3	14.5	14.8	15.2
Variations with the observer position at spacings:										
S = 1.0H	+ 2.9 / - 4.3					+ 3.4 / - 4.3				
1.5H	+ 4.9 / - 3.7					+ 5.3 / - 3.6				
2.0H	+ 3.2 / - 1.7					+ 3.9 / - 1.9				

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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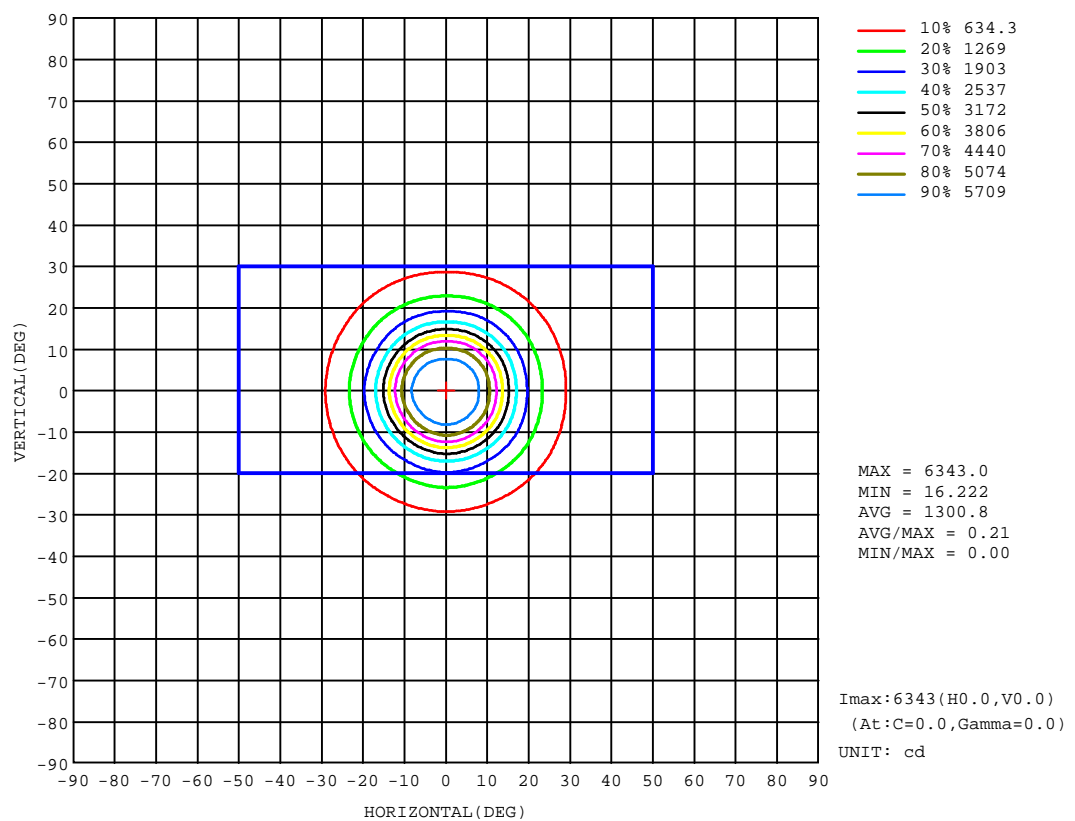
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	70	65	62	69	65	62	69	65	62	60
0.80	75	71	68	75	71	68	74	70	68	65
1.00	78	74	72	78	74	71	76	74	71	68
1.25	81	77	75	80	77	75	79	76	74	71
1.50	83	80	77	82	79	77	81	78	76	73
2.00	85	82	80	84	81	79	82	80	78	74
2.50	86	83	81	85	82	81	83	81	79	75
3.00	87	85	83	86	84	82	83	82	80	75
4.00	89	87	85	87	86	84	84	83	82	77
5.00	90	88	87	88	87	86	85	84	83	77
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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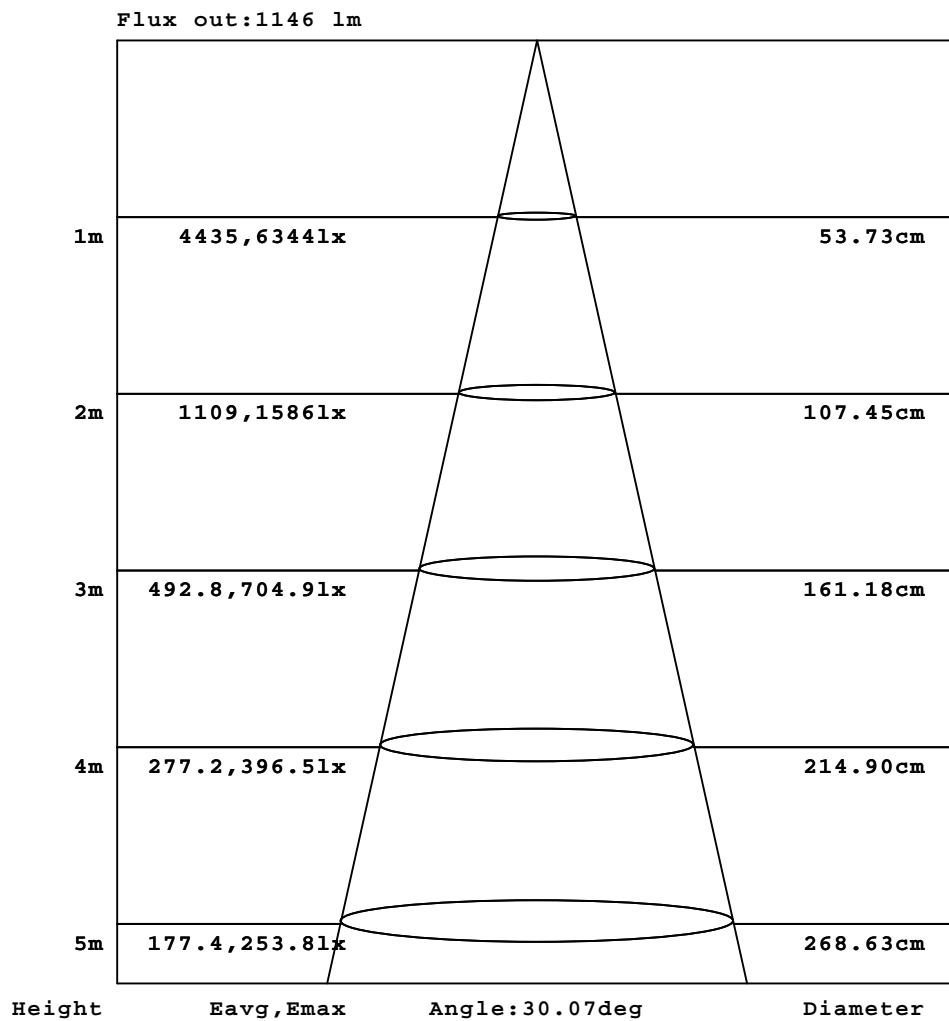


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AAI Figure

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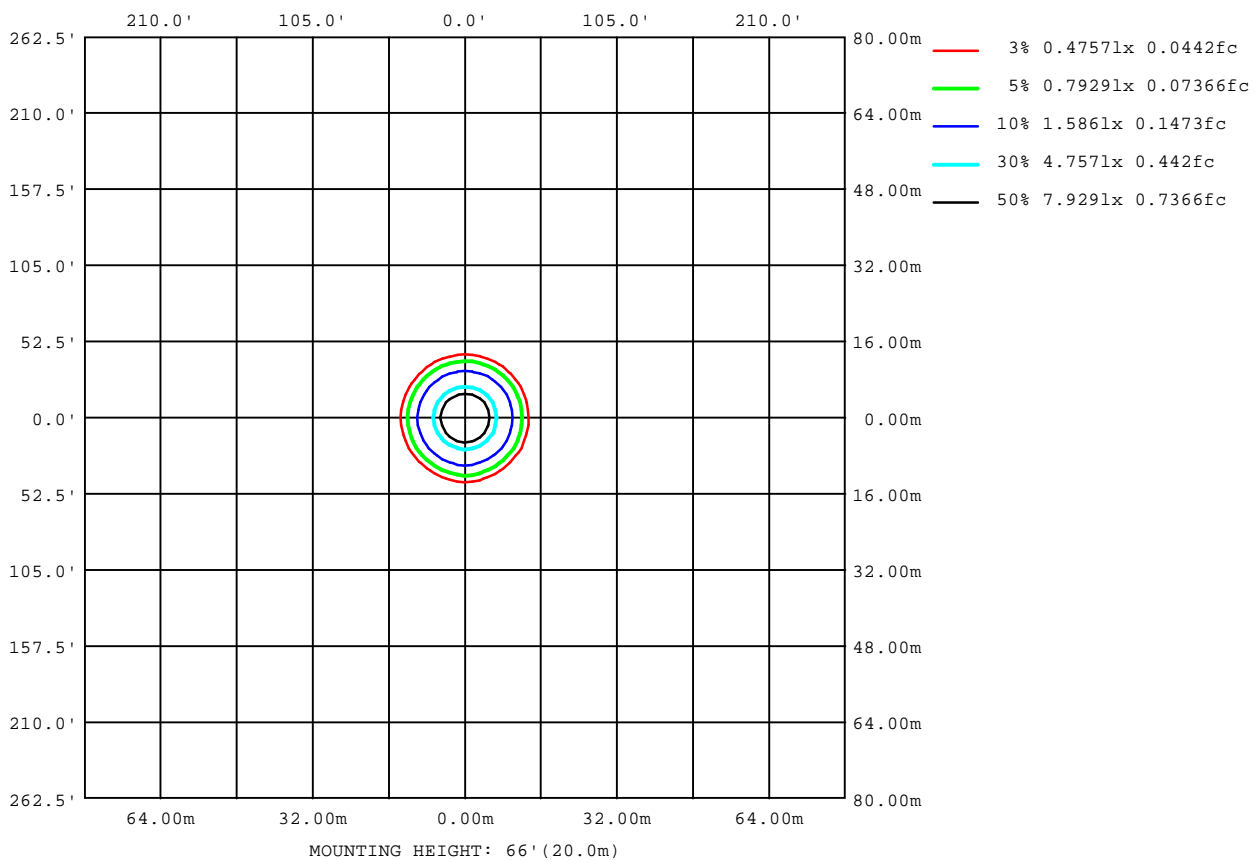
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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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-1083 15R
DRIVER: PUP40A-1WMC-850 700mA
30minutes warm-up

LED Avg.L Report

Test:U:119.80V I:0.2311A P:27.468W PF:0.9909 Freq:59.98Hz Lamp Flux:2796.63x1 lm		
NAME: 2018.481-ACOT-84-AM	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2208170670
MFR.: RISE	SUR.:0.0063585m2	Shielding Angle:

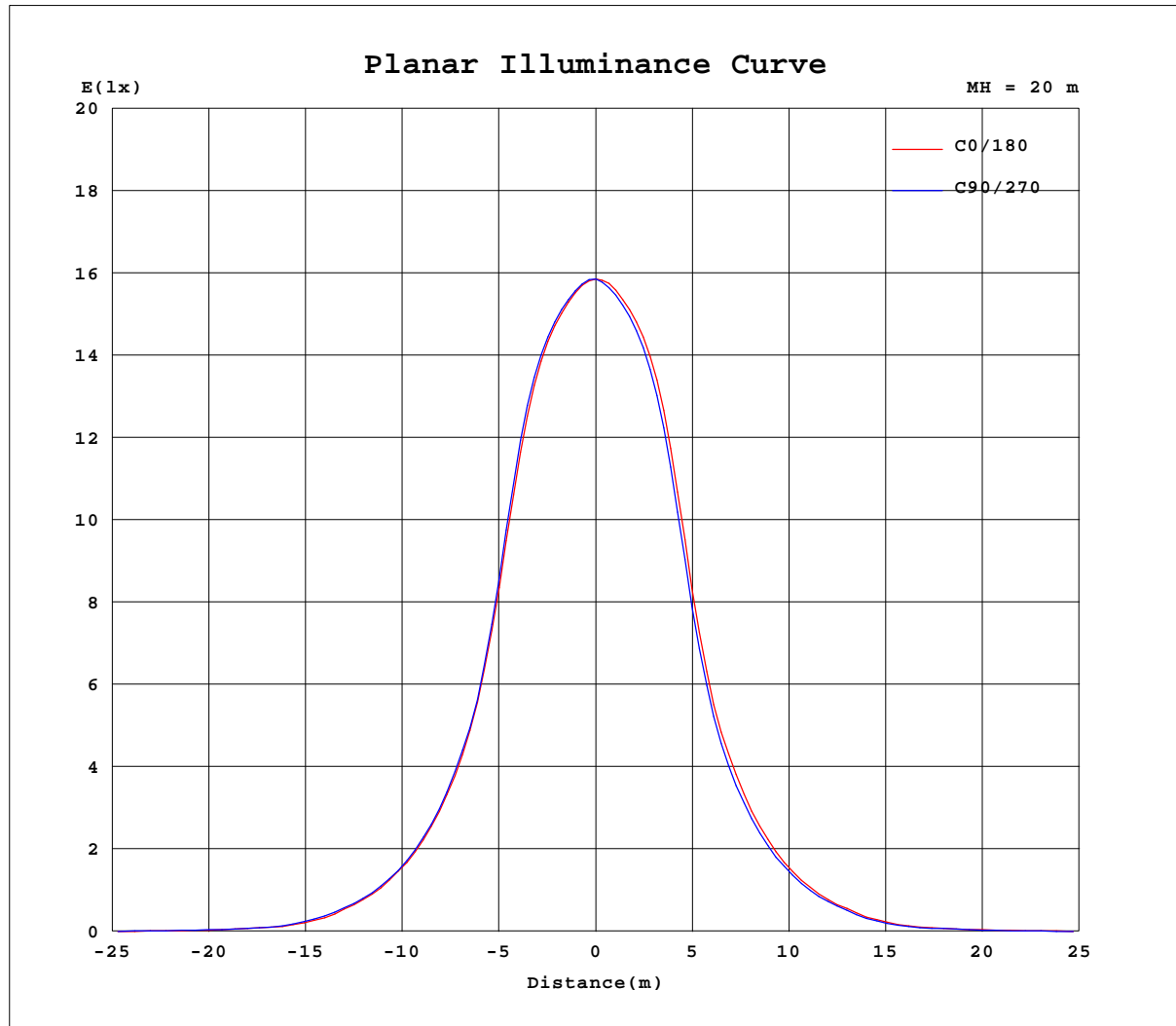
AvgL	cd/m2
L_0~180(65)av	2870
L_0~180(75)av	2041
L_0~180(85)av	1276
L_90~270(65)av	2890
L_90~270(75)av	2014
L_90~270(85)av	673
L_45(65)av	3026
L_45(75)av	2102
L_45(85)av	816

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-1083 15R
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-1083 15R
 DRIVER: PUP40A-1WMC-850 700mA
 30minutes warm-up

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.80V I:0.2311A P:27.468W PF:0.9909 Freq:59.98Hz Lamp Flux:2796.63x1 lm		
NAME: 2018.481-ACOT-84-AM	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2208170670
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	6343	6343	6343	6343	6343	6343	6343	6343	6343	6343	6343	6343						
5	6082	6107	6104	6117	6095	6090	6114	6085	6067	6048	6070	6086						
10	5248	5326	5332	5353	5276	5242	5302	5219	5173	5125	5210	5272						
15	3250	3327	3308	3318	3192	3147	3226	3114	3089	3056	3190	3284						
20	1831	1893	1843	1880	1788	1810	1844	1753	1755	1713	1809	1840						
25	1046	1065	1047	1072	1019	1023	1048	996	988	976	1016	1047						
30	562	574	563	585	551	552	566	534	533	528	550	564						
35	252	262	259	278	255	255	264	242	255	239	263	255						
40	97.2	102	100	106	99.9	101	103	96.2	94.9	94.1	97.8	99.7						
45	45.6	52.7	52.6	54.8	52.1	53.1	53.4	51.1	50.0	49.0	51.2	52.3						
50	21.2	22.2	23.2	23.8	22.8	23.3	23.6	23.2	22.7	22.4	22.8	23.1						
55	15.2	16.8	17.6	17.8	17.4	18.2	17.4	18.1	17.6	17.0	17.6	18.2						
60	10.4	11.1	11.2	10.9	11.2	11.8	11.3	11.4	11.3	10.9	11.3	11.9						
65	7.46	7.72	8.04	7.74	8.04	8.36	7.96	7.95	8.11	7.79	8.15	8.33						
70	5.12	5.21	5.49	5.25	5.51	5.75	5.47	5.37	5.54	5.31	5.60	5.71						
75	3.23	3.18	3.44	3.33	3.47	3.62	3.48	3.29	3.46	3.30	3.51	3.57						
80	1.70	1.56	1.70	1.74	1.82	1.94	1.86	1.63	1.79	1.65	1.80	1.91						
85	0.69	0.45	0.39	0.43	0.43	0.60	0.72	0.47	0.41	0.32	0.39	0.55						
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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