

Luminaire Photograph



Light Output Ratio:	59.2%	
Luminaire Power:	28.03 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.70	fine grid method.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: zoe
Test Date: 2024-7-31

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-30G2000-C-83 Ra: 90
LENS: PM-1083B 36R
DRIVER: PUP40A-1WMC-850 700mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

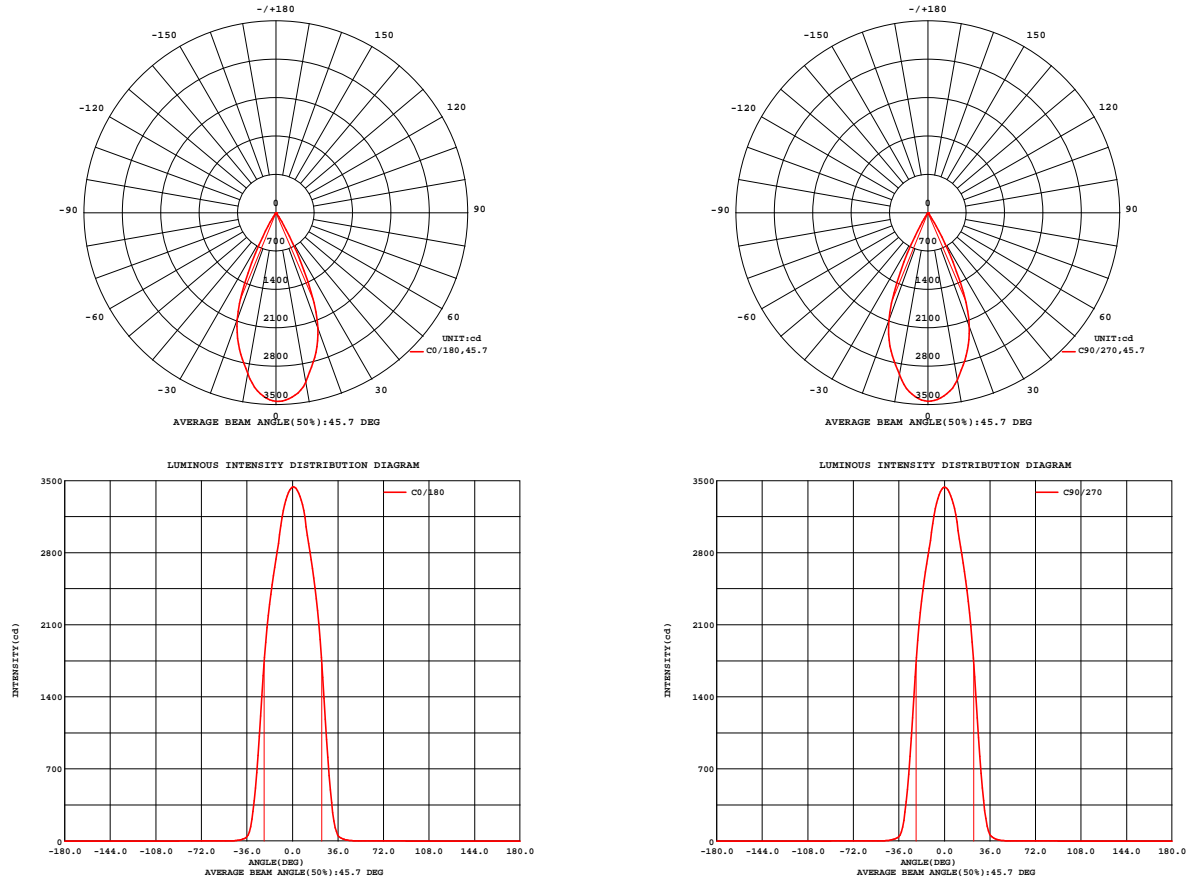


Fig. C0/C180

Fig. C90/C270

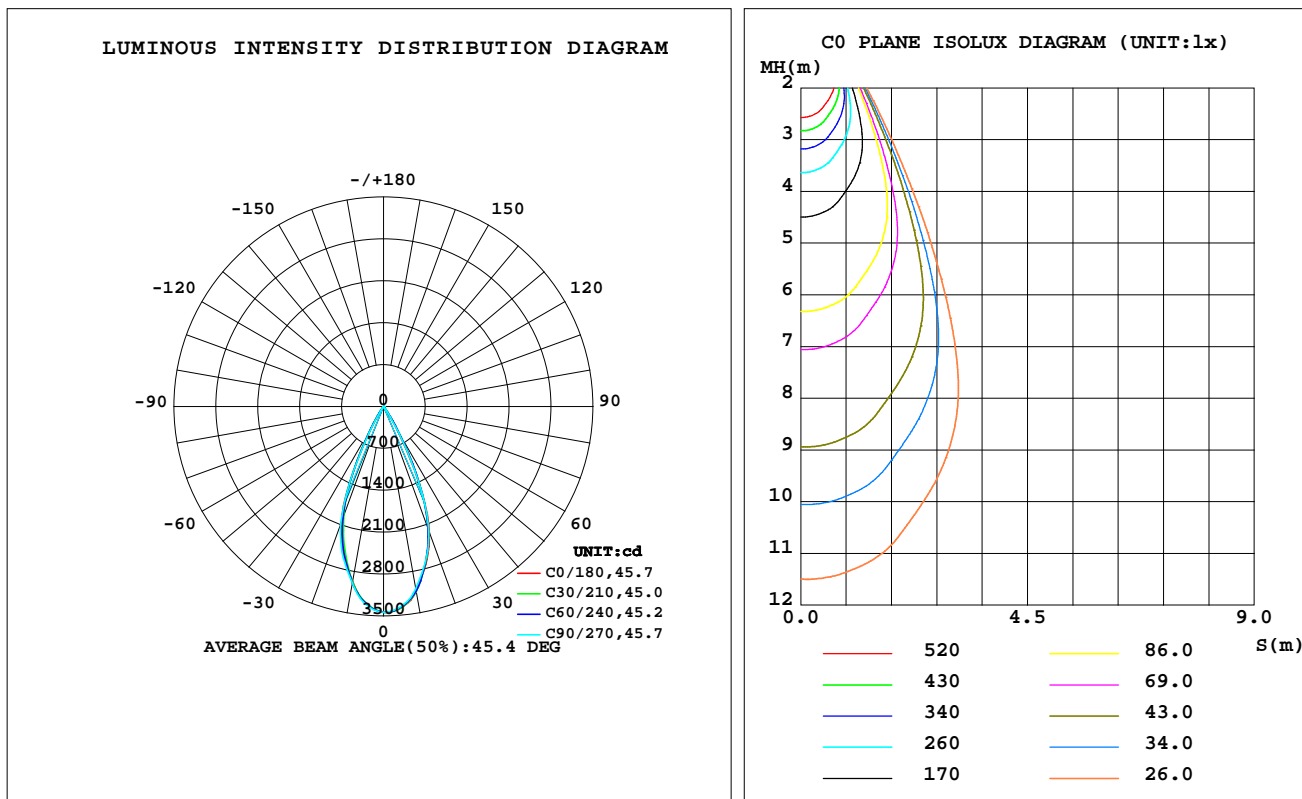
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LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.05V I:0.2355A P:28.030W PF:0.9902 Freq:59.98Hz Lamp Flux:2916.2x1 lm		
NAME: 2418.121-ACOT-84-AM	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2407310973
MFR.: RISE	SUR.: 0.0064m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 61.55 lm/W			
MODEL	Bridgelux	I _{max} (cd)	3441	S/MH(C0/180)	0.67
NOMINAL POWER(W)	20	LOR(%)	59.2	S/MH(C90/270)	0.67
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1725.4	UP,DN(C0-180)	0.0,30.5
NOMINAL FLUX(lm)	2916.2	CIE CLASS	DIRECT	UP,DN(C180-360)	0.0,28.7
LAMPS INSIDE	1	up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	120	down(%)	59.2	CIBSE SHR MAX	0.70



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ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

	C0	C45	C90	C135	C180	C225	C270	C315		zone	total	%lum,lamp
10	3138	3139	3097	3067	2974	2989	2997	3117	0- 10	310.5	310.5	18,10.6
20	2236	2178	2214	2083	2072	1968	2094	2163	10- 20	731.1	1042	60.4,35.7
30	494.7	597.0	514.2	516.8	390.1	420.0	380.9	511.7	20- 30	580.9	1623	94,55.6
40	20.53	26.92	22.98	22.36	14.49	18.00	16.58	20.01	30- 40	95.59	1718	99.6,58.9
50	1.550	2.707	1.095	1.376	0.8456	1.888	1.330	2.071	40- 50	6.049	1724	99.9,59.1
60	0.6786	0.6211	0.2177	0.3913	0.3506	0.5352	0.3922	0.6258	50- 60	0.8529	1725	100,59.2
70	0.1055	0.0685	0.0533	0.1046	0.1426	0.0833	0.0636	0.0630	60- 70	0.2233	1725	100,59.2
80	0.0723	0.0450	0.0391	0.0372	0.0593	0.0394	0.0465	0.0888	70- 80	0.0617	1725	100,59.2
90	0	0	0	0	0	0	0	0	80- 90	0.0422	1725	100,59.2
100	0	0	0	0	0	0	0	0	90-100	0	1725	100,59.2
110	0	0	0	0	0	0	0	0	100-110	0	1725	100,59.2
120	0	0	0	0	0	0	0	0	110-120	0	1725	100,59.2
130	0	0	0	0	0	0	0	0	120-130	0	1725	100,59.2
140	0	0	0	0	0	0	0	0	130-140	0	1725	100,59.2
150	0	0	0	0	0	0	0	0	140-150	0	1725	100,59.2
160	0	0	0	0	0	0	0	0	150-160	0	1725	100,59.2
170	0	0	0	0	0	0	0	0	160-170	0	1725	100,59.2
180	0	0	0	0	0	0	0	0	170-180	0	1725	100,59.2
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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

LUMINANCE LIMITATION CURVES

Test:U:120.05V I:0.2355A P:28.030W PF:0.9902 Freq:59.98Hz
Lamp Flux:2916.2x1 lm

NAME: 2418.121-ACOT-84-AM

TYPE:

WEIGHT:

SPEC.: 3000K

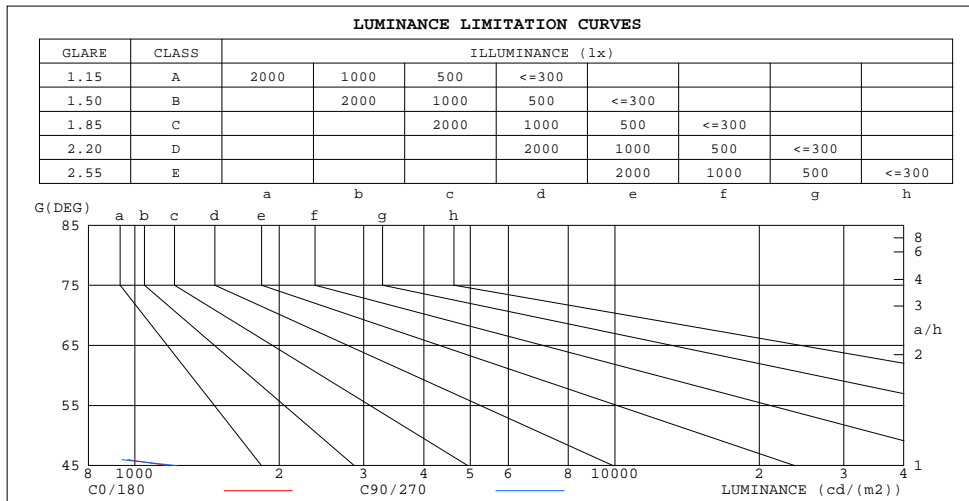
DIM.:

SERIAL No.: 2407310973

MFR.: RISE

SUR.: 0.0064m2

Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	120	69
80	65	35
75	50	27
70	48	24
65	81	48
60	212	68
55	292	150
50	377	266
45	1180	1227

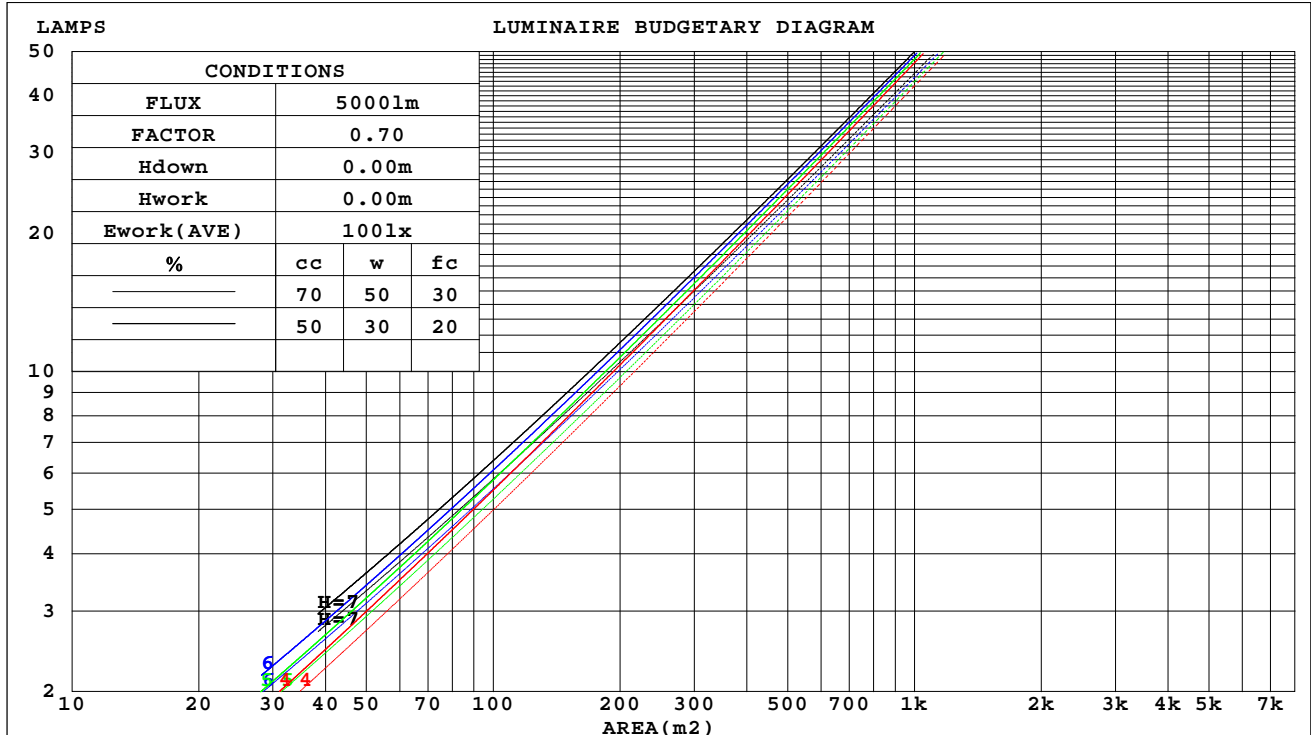
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.: 3000K	DIM.:	SERIAL No.: 2407310973
MFR.: RISE	SUR.: 0.0064m2	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.: 2407310973
MFR.: RISE	SUR.: 0.0064m2	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	.090	.051	.016	.086	.049	.016	.079	.045	.014	.072	.042	.013	.066	.038	.012	
2.0	.085	.046	.014	.081	.045	.014	.075	.042	.013	.070	.039	.012	.064	.036	.011	
3.0	.080	.043	.013	.077	.041	.012	.072	.039	.012	.067	.037	.011	.063	.035	.011	
4.0	.076	.039	.012	.073	.038	.011	.069	.037	.011	.065	.035	.011	.061	.033	.010	
5.0	.072	.037	.011	.070	.036	.010	.066	.034	.010	.063	.033	.010	.059	.032	.010	
6.0	.069	.034	.010	.067	.034	.010	.064	.033	.009	.060	.031	.009	.058	.030	.009	
7.0	.066	.032	.009	.064	.032	.009	.061	.031	.009	.058	.030	.009	.056	.029	.009	
8.0	.063	.031	.009	.062	.030	.009	.059	.029	.008	.057	.029	.008	.054	.028	.008	
9.0	.060	.029	.008	.059	.029	.008	.057	.028	.008	.055	.027	.008	.053	.027	.008	
10.0	.058	.028	.008	.057	.028	.008	.055	.027	.008	.053	.026	.008	.051	.026	.007	

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	.113	.113	.113	.096	.096	.096	.066	.066	.066	.038	.038	.038	.012	.012	.012	
1.0	.100	.093	.087	.086	.080	.075	.059	.055	.052	.034	.032	.030	.011	.010	.010	
2.0	.090	.078	.069	.077	.068	.059	.053	.047	.041	.031	.027	.024	.010	.009	.008	
3.0	.082	.067	.055	.070	.058	.048	.048	.040	.034	.028	.023	.020	.009	.008	.006	
4.0	.075	.058	.045	.064	.050	.039	.044	.035	.028	.026	.021	.016	.008	.007	.005	
5.0	.069	.051	.037	.060	.044	.033	.041	.031	.023	.024	.018	.014	.008	.006	.005	
6.0	.065	.045	.031	.056	.039	.027	.038	.027	.019	.022	.016	.012	.007	.005	.004	
7.0	.060	.041	.027	.052	.035	.023	.036	.025	.017	.021	.015	.010	.007	.005	.003	
8.0	.057	.037	.023	.049	.032	.020	.034	.022	.014	.020	.013	.008	.006	.004	.003	
9.0	.054	.034	.020	.046	.029	.017	.032	.021	.012	.019	.012	.007	.006	.004	.002	
10.0	.051	.031	.017	.044	.027	.015	.031	.019	.011	.018	.011	.006	.006	.004	.002	

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30minutes warm-up

UGR(Unified Glare Rating) Table

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NAME: 2418.121-ACOT-84-AM					TYPE:			WEIGHT:		
SPEC.: 3000K					DIM.:			SERIAL No.: 2407310973		
MFR.: RISE					SUR.: 0.0064m2			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	7.2	7.9	7.4	8.1	8.2	7.7	8.4	7.9	8.6	8.7
3H	7.0	7.7	7.3	7.9	8.1	7.5	8.2	7.8	8.4	8.6
4H	6.9	7.6	7.2	7.8	8.0	7.4	8.1	7.7	8.3	8.5
6H	6.8	7.5	7.1	7.7	7.9	7.3	8.0	7.6	8.2	8.4
8H	6.8	7.4	7.1	7.7	7.9	7.3	7.9	7.6	8.2	8.4
12H	6.7	7.3	7.1	7.6	7.9	7.2	7.8	7.6	8.1	8.4
4H 2H	6.9	7.6	7.2	7.8	8.0	7.4	8.1	7.7	8.3	8.5
3H	6.7	7.3	7.1	7.6	7.9	7.2	7.8	7.6	8.1	8.4
4H	6.7	7.2	7.0	7.5	7.8	7.2	7.7	7.5	8.0	8.3
6H	6.6	7.0	6.9	7.4	7.7	7.1	7.5	7.4	7.9	8.2
8H	6.5	6.9	6.9	7.3	7.7	7.0	7.4	7.4	7.8	8.1
12H	6.4	6.8	6.9	7.2	7.6	6.9	7.3	7.4	7.7	8.1
8H 4H	6.5	6.9	6.9	7.3	7.7	7.0	7.4	7.4	7.8	8.1
6H	6.4	6.8	6.8	7.1	7.6	6.9	7.3	7.3	7.6	8.1
8H	6.3	6.7	6.8	7.1	7.5	6.8	7.2	7.3	7.6	8.0
12H	6.3	6.5	6.7	7.0	7.5	6.8	7.0	7.2	7.5	8.0
12H 4H	6.4	6.8	6.9	7.2	7.6	6.9	7.3	7.4	7.7	8.1
6H	6.3	6.7	6.8	7.1	7.5	6.8	7.2	7.3	7.6	8.0
8H	6.3	6.5	6.7	7.0	7.5	6.8	7.0	7.2	7.5	8.0
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 3.1 / -15.1					+ 3.6 / -19.9				
1.5H	+ 5.7 / -14.0					+ 6.2 / -16.6				
2.0H	+ 6.1 / - 6.8					+ 6.7 / -11.7				

CIE Pub.117, 2916 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 3.7)
Area: 0.0064 m2

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UTILIZATION FACTORS TABLE

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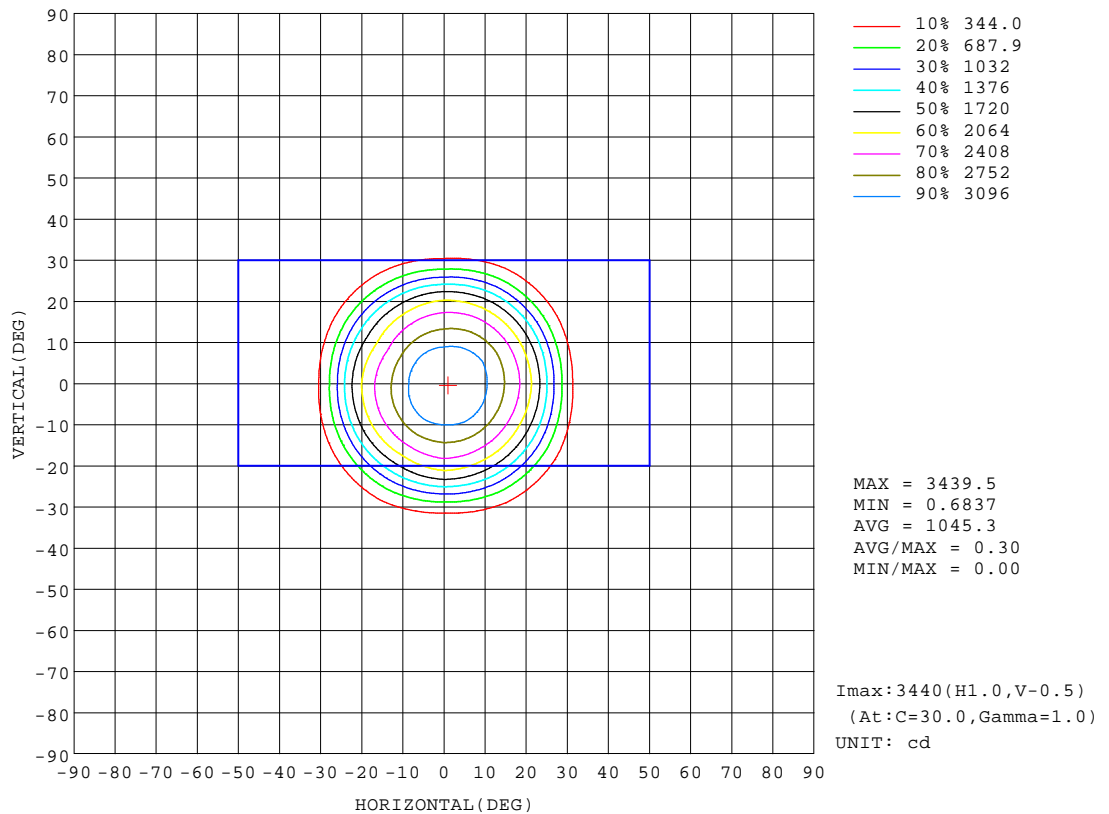
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	54	51	49	54	51	49	53	50	49	47
0.80	58	55	53	58	55	53	57	55	53	51
1.00	60	57	55	60	57	55	59	57	55	53
1.25	62	60	58	62	59	58	61	59	57	55
1.50	64	61	60	63	61	59	62	60	59	56
2.00	65	63	61	64	62	61	63	61	60	57
2.50	66	64	62	65	63	62	63	62	61	57
3.00	67	65	63	66	64	63	64	63	62	58
4.00	68	66	65	67	65	64	65	64	63	59
5.00	68	67	66	67	66	65	65	64	64	59
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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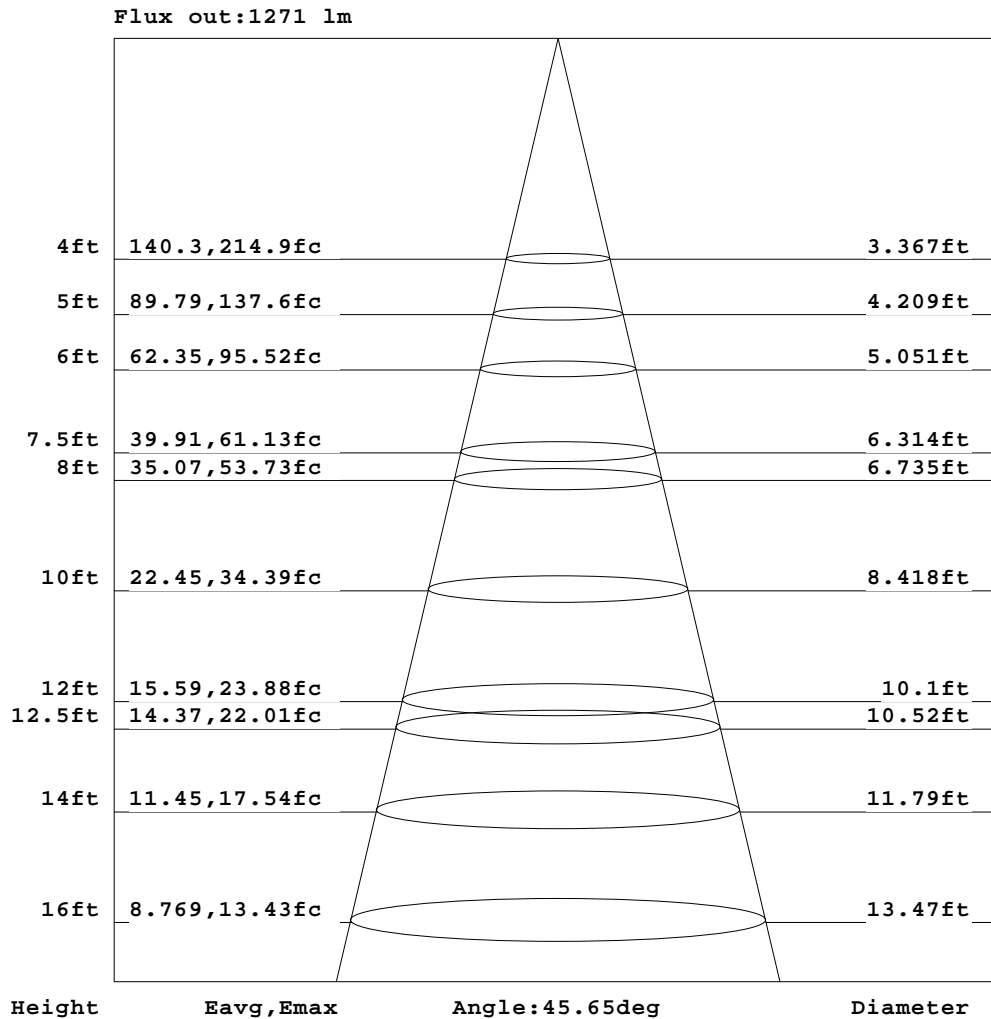


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AAI Figure

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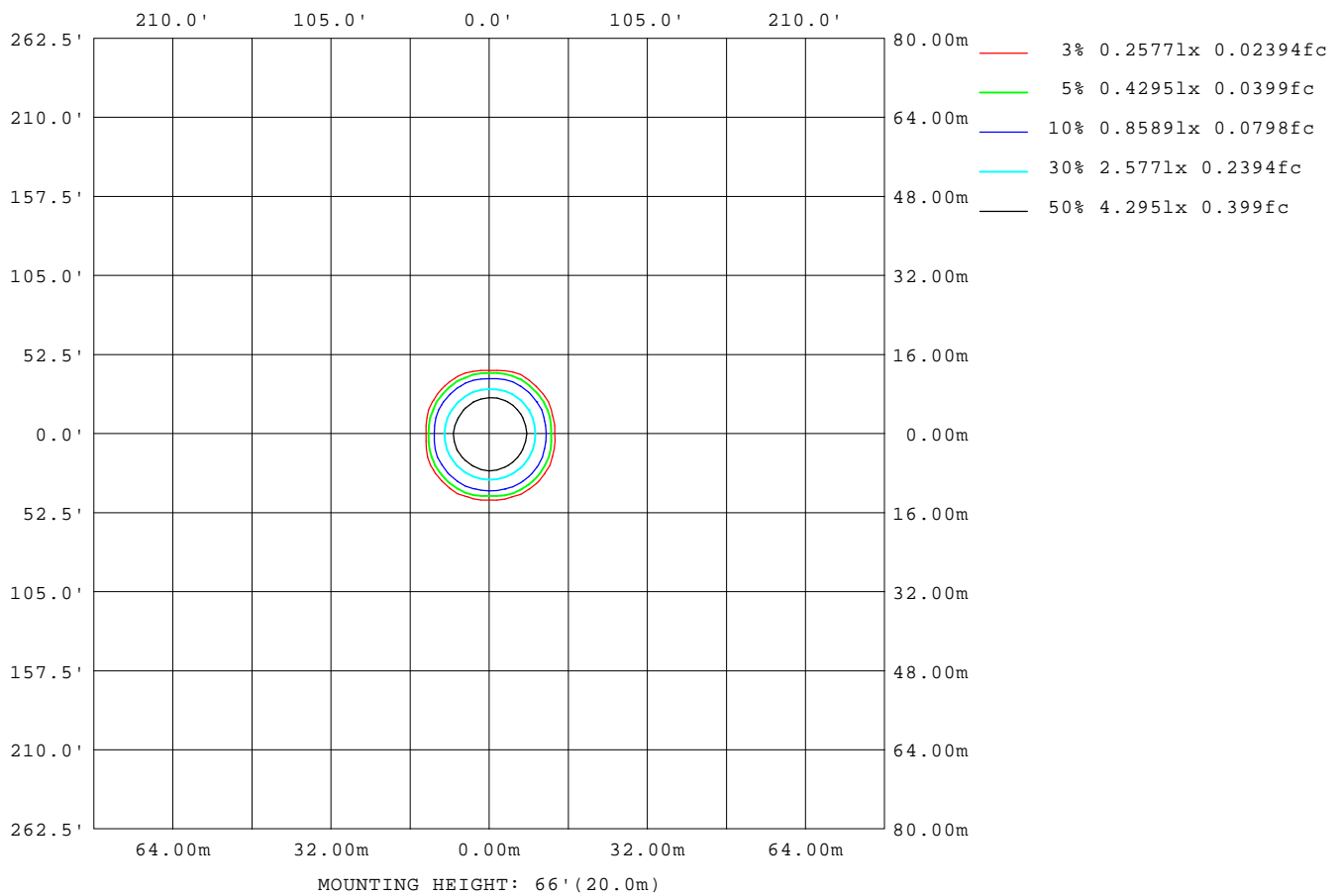
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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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-30G2000-C-83 Ra:90
LENS;PM-1083B 36R
DRIVER: PUP40A-1WMC-850 700mA
30minutes warm-up

LED Avg.L Report

Test:U:120.05V I:0.2355A P:28.030W PF:0.9902 Freq:59.98Hz Lamp Flux:2916.2x1 lm		
NAME: 2418.121-ACOT-84-AM	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2407310973
MFR.: RISE	SUR.: 0.0064m2	Shielding Angle:

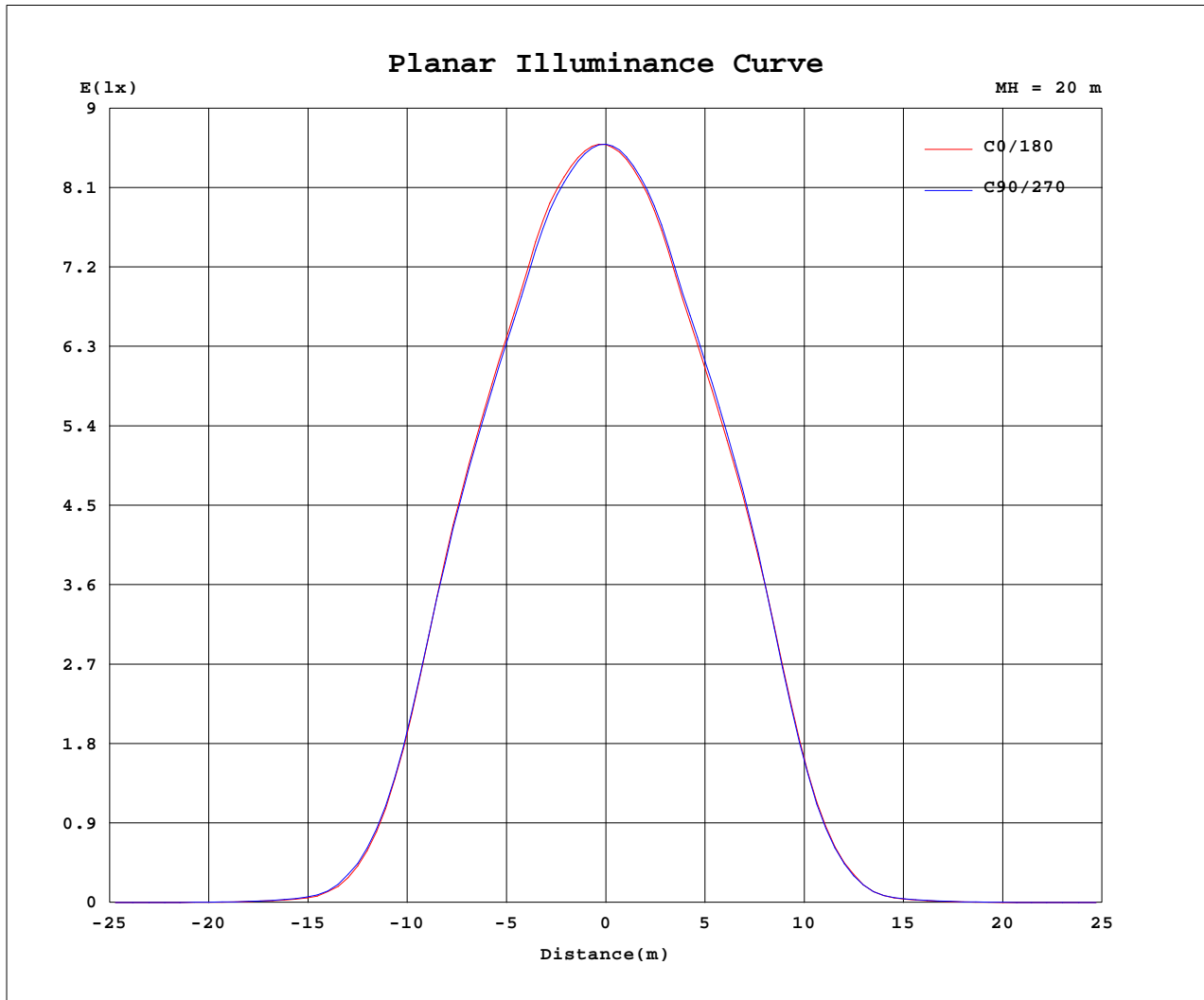
AvgL	cd/m2
L_0~180(65)av	95
L_0~180(75)av	45
L_0~180(85)av	107
L_90~270(65)av	42
L_90~270(75)av	30
L_90~270(85)av	79
L_45(65)av	74
L_45(75)av	32
L_45(85)av	51

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2024-7-31

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-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: 25.3 °C
 Operators: zoe
 Test Date: 2024-7-31

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-30G2000-C-83 Ra:90
 LENS: PM-1083B 36R
 DRIVER: PUP40A-1WMC-850 700mA
 30minutes warm-up



LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.05V I:0.2355A P:28.030W PF:0.9902 Freq:59.98Hz Lamp Flux:2916.2x1 lm		
NAME: 2418.121-ACOT-84-AM	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2407310973
MFR.: RISE	SUR.: 0.0064m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	3437	3437	3437	3437	3437	3437	3437	3437	3437	3437	3437	3437						
5	3377	3375	3364	3353	3336	3323	3311	3302	3308	3325	3347	3368						
10	3138	3142	3137	3097	3092	3042	2974	2983	2995	2997	3082	3151						
15	2731	2714	2705	2700	2654	2611	2576	2495	2554	2612	2681	2734						
20	2236	2180	2176	2214	2084	2082	2072	1942	1994	2094	2140	2185						
25	1387	1426	1427	1396	1337	1296	1212	1196	1184	1195	1330	1390						
30	495	596	598	514	546	487	390	423	417	381	496	528						
35	91.7	164	165	96.5	150	119	58.1	97.6	98.2	58.5	122	130						
40	20.5	27.0	26.9	23.0	24.6	20.1	14.5	16.6	19.4	16.6	21.3	18.7						
45	5.34	9.62	9.37	5.55	7.16	5.96	3.54	6.24	5.96	4.52	7.97	7.36						
50	1.55	3.32	2.09	1.09	1.13	1.62	0.85	2.06	1.71	1.33	1.71	2.44						
55	1.07	1.32	1.19	0.55	0.51	0.53	0.61	0.98	1.17	0.96	0.97	1.05						
60	0.68	0.83	0.42	0.22	0.35	0.43	0.35	0.59	0.48	0.39	0.51	0.74						
65	0.22	0.27	0.12	0.13	0.22	0.32	0.29	0.17	0.10	0.10	0.10	0.29						
70	0.11	0.08	0.06	0.05	0.06	0.15	0.14	0.11	0.06	0.06	0.05	0.07						
75	0.08	0.06	0.05	0.04	0.05	0.05	0.07	0.05	0.05	0.05	0.08	0.05						
80	0.07	0.05	0.04	0.04	0.03	0.04	0.06	0.04	0.04	0.05	0.14	0.03						
85	0.07	0.04	0.04	0.04	0.03	0.03	0.05	0.03	0.03	0.05	0.02	0.04						
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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