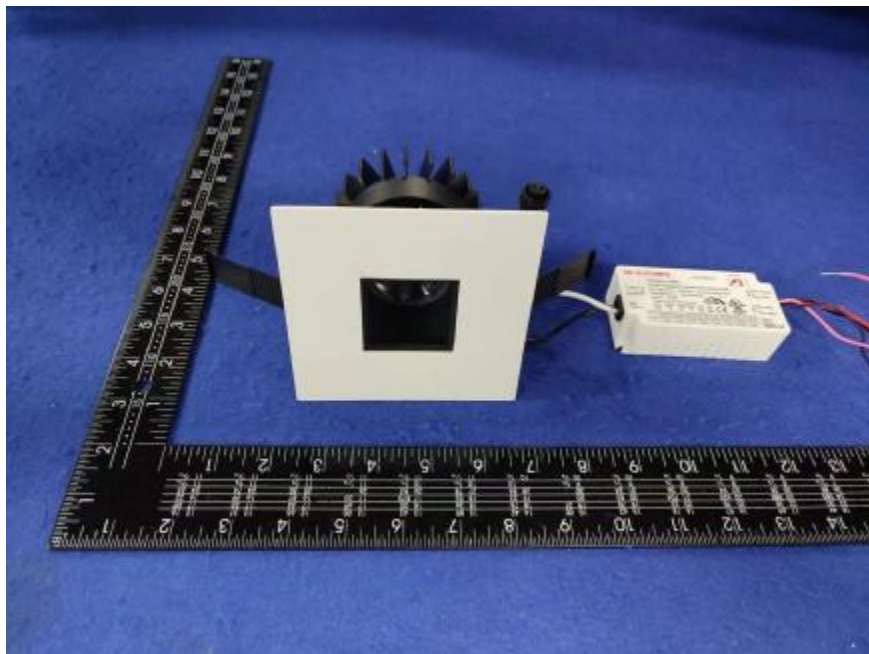


Luminaire Photograph



Light Output Ratio:	78.2%	
Luminaire Power:	20.99 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: 2024-7-25

γ Range: 0 - 180DEG
γ 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-1083A 24R
DRIVER: PUP20A-1WMC 500mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

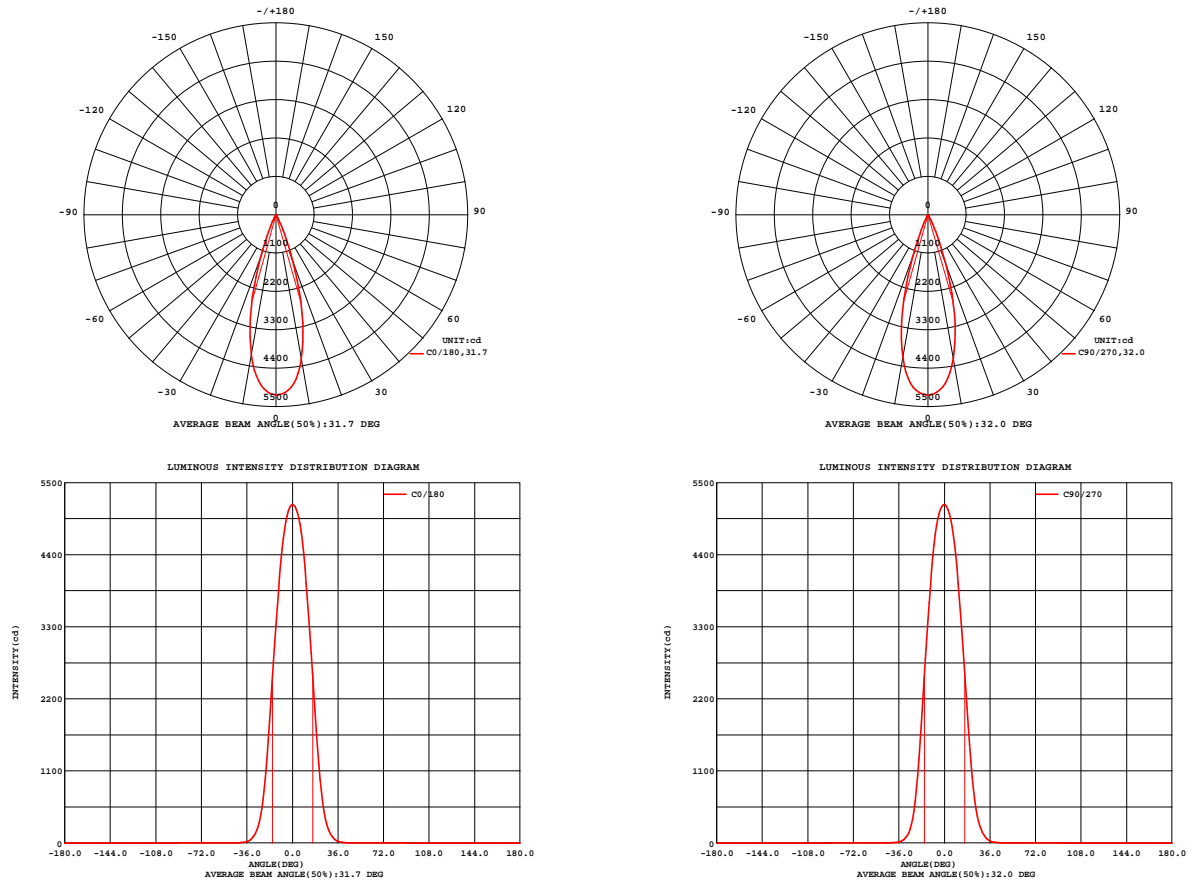


Fig. C0/C180

Fig. C90/C270

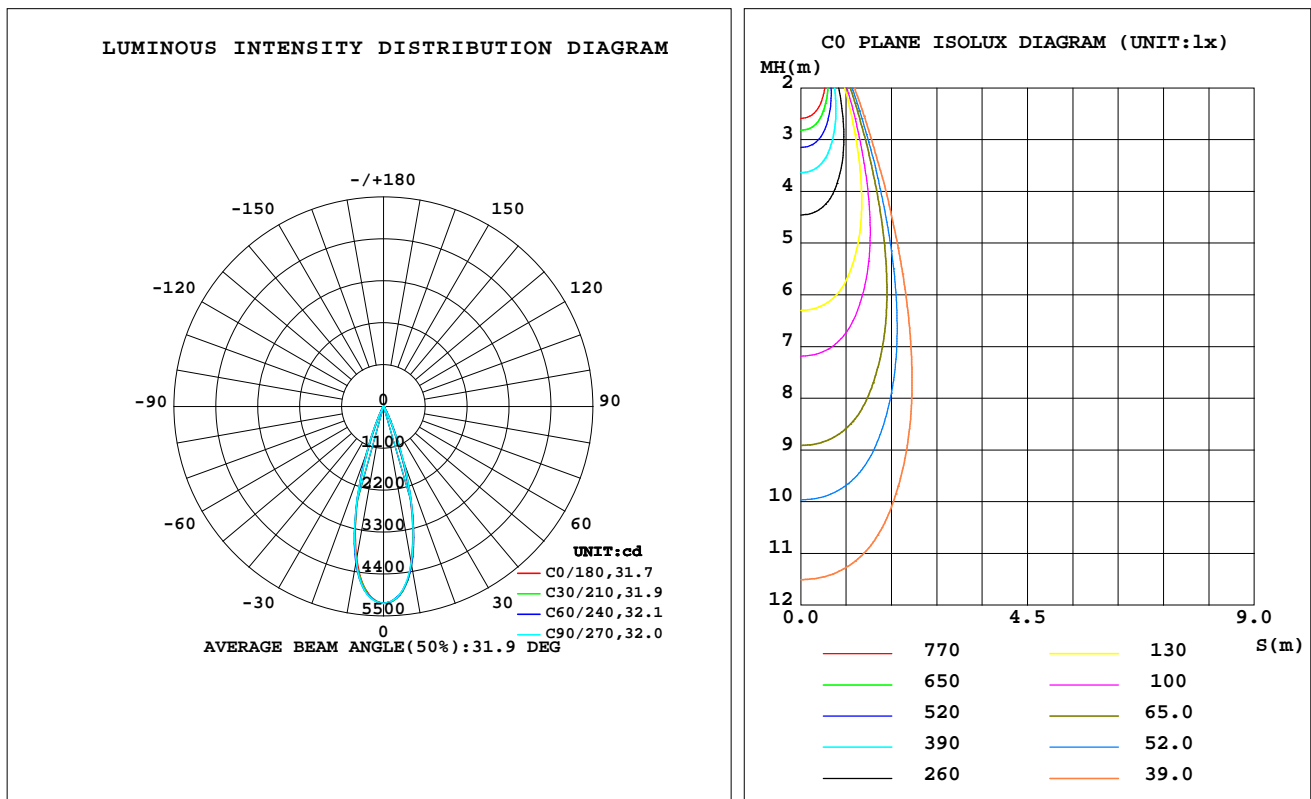
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: zoe
Test Date: 2024-7-25

γ Range: 0 - 180DEG
 γ 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-1083A 24R
DRIVER: PUP20A-1WMC 500mA
30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.07V I:0.1758A P:20.991W PF:0.9935 Freq:59.98Hz Lamp Flux:1897.7x1 lm		
NAME: 2418.120-LEA-15	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2407240944
MFR.: RISE	SUR.: 0.0064m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 70.67 lm/W			
MODEL	Bridgelux	I _{max} (cd)	5165	S/MH(C0/180)	0.49
NOMINAL POWER(W)	20	LOR(%)	78.2	S/MH(C90/270)	0.49
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1483.5	η UP,DN(C0-180)	0.0,40.4
NOMINAL FLUX(lm)	1897.7	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,37.8
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	120	η down(%)	78.2	CIBSE SHR MAX	0.50



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2024-7-25

γ Range: 0 - 180DEG
γ 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-1083A 24R
DRIVER: PUP20A-1WMC 500mA
30minutes warm-up

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	4194	4235	4191	4175	4073	4167	4150	4199	0- 10	447.7	447.7	30.2,23.6
20	1440	1526	1503	1446	1304	1279	1288	1358	10- 20	761.0	1209	81.5,63.7
30	141.6	173.4	164.1	147.4	115.1	100.6	90.38	117.8	20- 30	242.1	1451	97.8,76.4
40	9.525	13.98	10.79	11.28	7.133	7.639	5.960	8.602	30- 40	29.50	1480	99.8,78
50	0.5304	0.9139	0.5526	0.8433	0.4328	0.7058	0.4447	0.7713	40- 50	2.737	1483	100,78.1
60	0.1653	0.1552	0.1473	0.1427	0.1439	0.1448	0.1603	0.1558	50- 60	0.2698	1483	100,78.2
70	0.1027	0.0751	0.0794	0.0682	0.0875	0.0678	0.0884	0.0723	60- 70	0.1043	1483	100,78.2
80	0.0766	0.0484	0.0645	0.0454	0.0778	0.0415	0.0664	0.0429	70- 80	0.0688	1483	100,78.2
90	0	0	0	0	0	0	0	0	80- 90	0.0380	1483	100,78.2
100	0	0	0	0	0	0	0	0	90-100	0	1483	100,78.2
110	0	0	0	0	0	0	0	0	100-110	0	1483	100,78.2
120	0	0	0	0	0	0	0	0	110-120	0	1483	100,78.2
130	0	0	0	0	0	0	0	0	120-130	0	1483	100,78.2
140	0	0	0	0	0	0	0	0	130-140	0	1483	100,78.2
150	0	0	0	0	0	0	0	0	140-150	0	1483	100,78.2
160	0	0	0	0	0	0	0	0	150-160	0	1483	100,78.2
170	0	0	0	0	0	0	0	0	160-170	0	1483	100,78.2
180	0	0	0	0	0	0	0	0	170-180	0	1483	100,78.2
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2024-7-25

γ Range: 0 - 180DEG
 γ 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-1083A 24R
DRIVER: PUP20A-1WMC 500mA
30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:120.07V I:0.1758A P:20.991W PF:0.9935 Freq:59.98Hz
Lamp Flux:1897.7x1 lm

NAME: 2418.120-LEA-15

TYPE:

WEIGHT:

SPEC.: 3000K

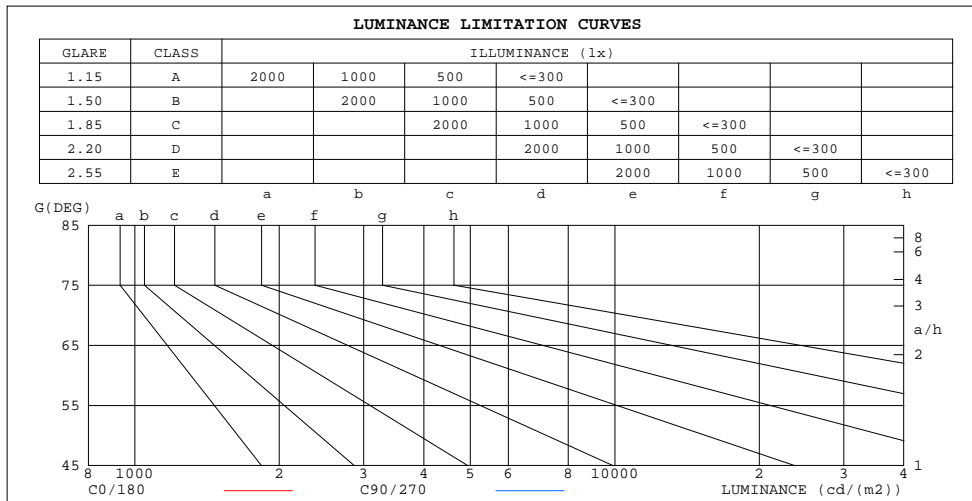
DIM.:

SERIAL No.: 2407240944

MFR.: RISE

SUR.: 0.0064m2

Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	112	86
80	69	58
75	54	45
70	47	36
65	43	39
60	52	46
55	70	66
50	129	134
45	572	595

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2024-7-25

γ Range: 0 - 180DEG
γ 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-1083A 24R
DRIVER: PUP20A-1WMC 500mA
30minutes warm-up

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.07V I:0.1758A P:20.991W PF:0.9935 Freq:59.98Hz
Lamp Flux:1897.7x1 lm

NAME: 2418.120-LEA-15

TYPE:

WEIGHT:

SPEC.: 3000K

DIM.:

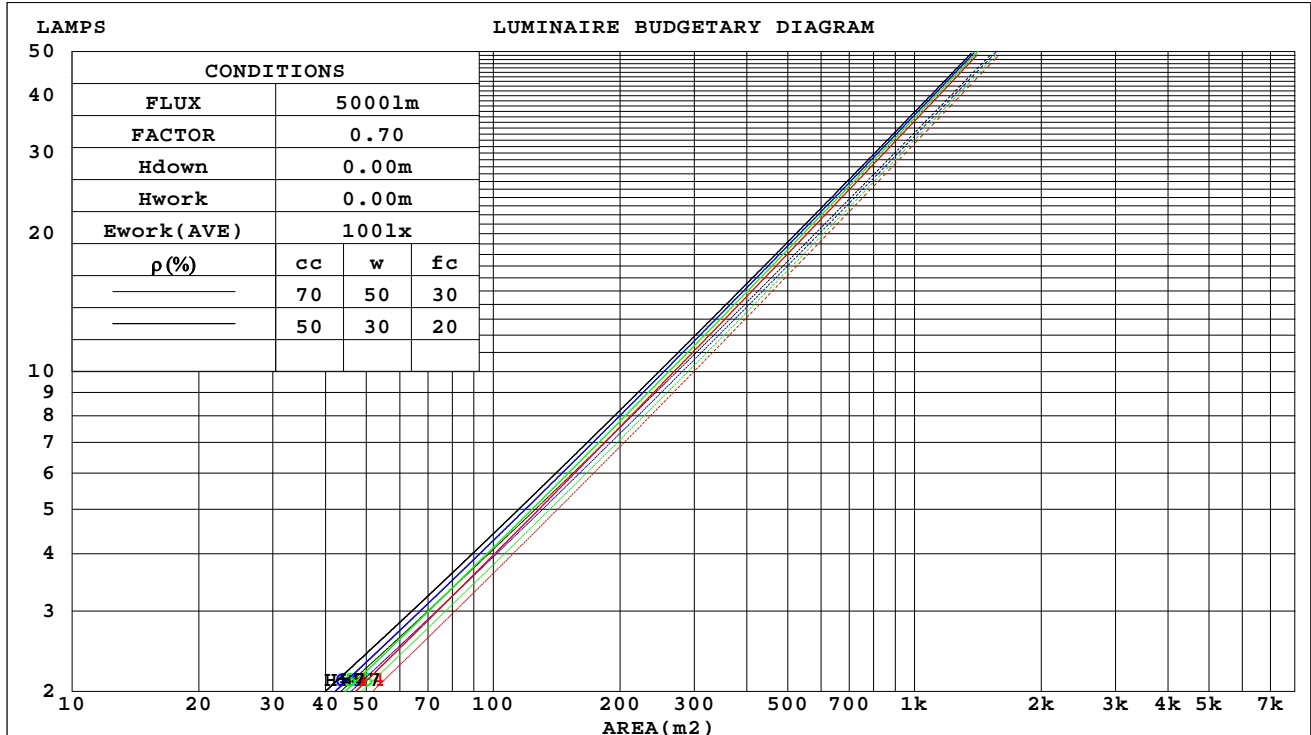
SERIAL No.: 2407240944

MFR.: RISE

SUR.: 0.0064m2

Shielding Angle:

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2024-7-25

γ Range: 0 - 180DEG
 γ 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-1083A 24R
DRIVER: PUP20A-1WMC 500mA
30minutes warm-up



WEC AND CCEC

Test:U:120.07V I:0.1758A P:20.991W PF:0.9935 Freq:59.98Hz Lamp Flux:1897.7x1 lm		
NAME: 2418.120-LEA-15	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2407240944
MFR.: RISE	SUR.: 0.0064m2	Shielding Angle:

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.107	.061	.019	.102	.058	.018	.092	.053	.017	.083	.048	.015	.075	.043	.014	
2.0	.099	.054	.017	.095	.052	.016	.087	.048	.015	.079	.045	.014	.073	.041	.013	
3.0	.092	.049	.015	.089	.048	.014	.082	.044	.014	.076	.042	.013	.070	.039	.012	
4.0	.087	.045	.013	.084	.044	.013	.078	.041	.012	.073	.039	.012	.068	.037	.011	
5.0	.082	.042	.012	.079	.041	.012	.074	.039	.011	.070	.037	.011	.066	.035	.011	
6.0	.078	.039	.011	.075	.038	.011	.071	.036	.011	.067	.035	.010	.064	.034	.010	
7.0	.074	.036	.010	.072	.036	.010	.068	.035	.010	.065	.033	.010	.062	.032	.009	
8.0	.070	.034	.010	.069	.034	.010	.066	.033	.009	.063	.032	.009	.060	.031	.009	
9.0	.067	.033	.009	.066	.032	.009	.063	.031	.009	.061	.030	.009	.058	.030	.009	
10.0	.065	.031	.009	.064	.031	.009	.061	.030	.008	.059	.029	.008	.056	.028	.008	

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Ceiling Cavity Exitance Coefficients(CCEC)												
0.0	.149	.149	.149	.127	.127	.127	.087	.087	.087	.050	.050	.050	.016	.016	.016	
1.0	.132	.123	.116	.113	.106	.100	.077	.073	.069	.044	.042	.040	.014	.014	.013	
2.0	.117	.104	.092	.101	.089	.080	.069	.062	.056	.040	.036	.033	.013	.012	.011	
3.0	.106	.089	.075	.091	.076	.065	.062	.053	.046	.036	.031	.027	.012	.010	.009	
4.0	.096	.077	.062	.082	.066	.054	.057	.046	.038	.033	.027	.022	.011	.009	.007	
5.0	.088	.067	.051	.075	.058	.045	.052	.040	.032	.030	.024	.019	.010	.008	.006	
6.0	.081	.059	.043	.070	.051	.038	.048	.036	.027	.028	.021	.016	.009	.007	.005	
7.0	.075	.053	.037	.065	.046	.032	.045	.032	.023	.026	.019	.014	.008	.006	.005	
8.0	.070	.047	.032	.060	.041	.028	.042	.029	.020	.024	.017	.012	.008	.006	.004	
9.0	.066	.043	.028	.057	.037	.024	.039	.026	.017	.023	.016	.010	.007	.005	.003	
10.0	.062	.039	.024	.053	.034	.021	.037	.024	.015	.022	.014	.009	.007	.005	.003	

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2024-7-25

γ Range: 0 - 180DEG
 γ 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-1083A 24R
DRIVER: PUP20A-1WMC 500mA
30minutes warm-up

UGR(Unified Glare Rating) Table

Test:U:120.07V I:0.1758A P:20.991W PF:0.9935 Freq:59.98Hz Lamp Flux:1897.7x1 lm										
NAME: 2418.120-LEA-15					TYPE:			WEIGHT:		
SPEC.: 3000K					DIM.:			SERIAL No.: 2407240944		
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	1.5	2.2	1.7	2.3	2.5	2.2	2.9	2.4	3.0	3.2
3H	1.4	2.0	1.6	2.2	2.3	2.1	2.7	2.3	2.8	3.0
4H	1.3	1.9	1.5	2.1	2.3	2.0	2.6	2.2	2.8	3.0
6H	1.2	1.7	1.5	2.0	2.2	1.9	2.4	2.2	2.7	2.9
8H	1.2	1.7	1.4	1.9	2.2	1.8	2.4	2.1	2.6	2.9
12H	1.1	1.6	1.4	1.9	2.1	1.8	2.3	2.1	2.6	2.8
4H 2H	1.3	1.9	1.5	2.1	2.3	2.0	2.6	2.2	2.8	3.0
3H	1.1	1.6	1.4	1.9	2.1	1.8	2.3	2.1	2.6	2.8
4H	1.0	1.5	1.3	1.8	2.1	1.7	2.2	2.0	2.5	2.8
6H	0.9	1.3	1.3	1.7	2.0	1.6	2.0	2.0	2.3	2.7
8H	0.9	1.2	1.2	1.6	2.0	1.6	1.9	1.9	2.3	2.6
12H	0.8	1.2	1.2	1.5	1.9	1.5	1.9	1.9	2.2	2.6
8H 4H	0.9	1.2	1.2	1.6	1.9	1.6	1.9	1.9	2.3	2.6
6H	0.7	1.1	1.2	1.5	1.9	1.4	1.8	1.9	2.1	2.6
8H	0.7	1.0	1.1	1.4	1.8	1.4	1.7	1.8	2.1	2.5
12H	0.6	0.9	1.1	1.3	1.8	1.3	1.6	1.8	2.0	2.5
12H 4H	0.8	1.2	1.2	1.5	1.9	1.5	1.8	1.9	2.2	2.6
6H	0.7	1.0	1.1	1.4	1.8	1.4	1.7	1.8	2.1	2.5
8H	0.6	0.9	1.1	1.3	1.8	1.3	1.6	1.8	2.0	2.5
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 3.2 / -15.1					+ 3.5 / -16.4				
1.5H	+ 5.8 / -14.5					+ 6.2 / -15.6				
2.0H	+ 6.6 / - 5.1					+ 6.8 / - 5.5				

CIE Pub.117, 1898 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 2.2)
Area: 0.0064 m2

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2024-7-25

γ Range: 0 - 180DEG
γ 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-1083A 24R
DRIVER: PUP20A-1WMC 500mA
30minutes warm-up

UTILIZATION FACTORS TABLE

Test:U:120.07V I:0.1758A P:20.991W PF:0.9935 Freq:59.98Hz Lamp Flux:1897.7x1 lm		
NAME: 2418.120-LEA-15	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2407240944
MFR.: RISE	SUR.: 0.0064m2	Shielding Angle:

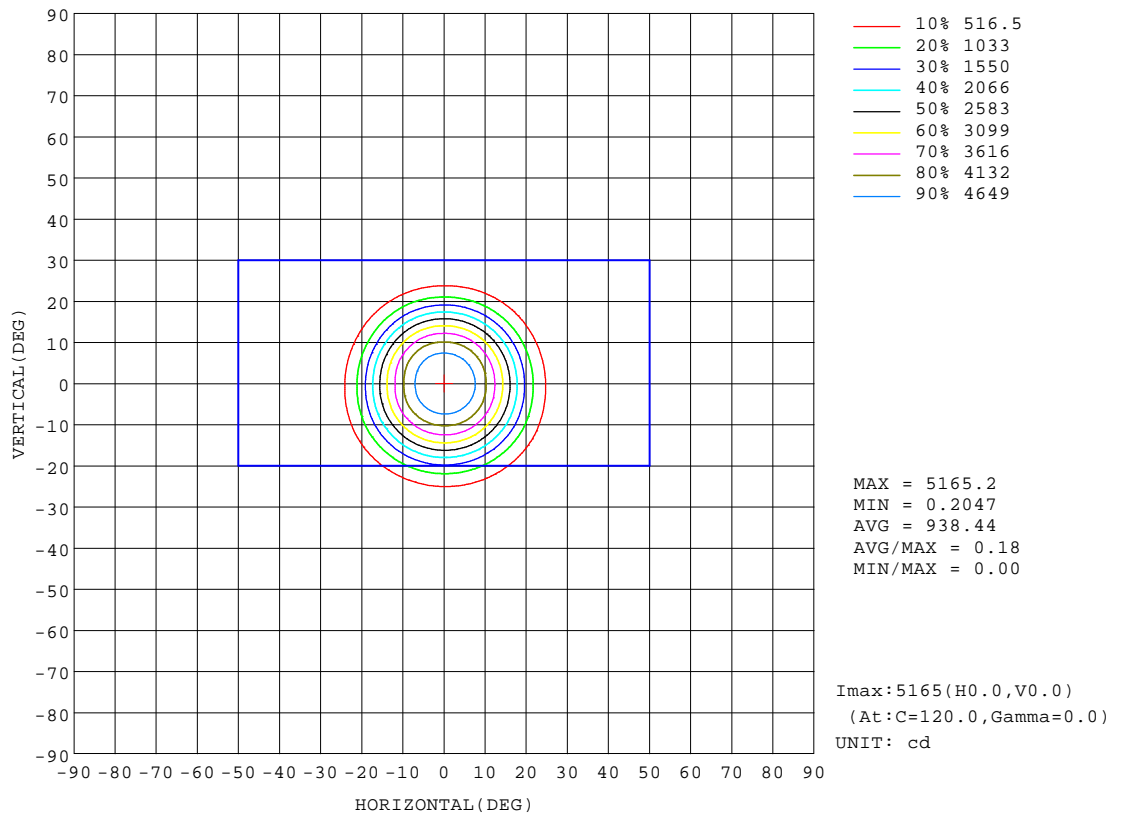
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	72	67	64	71	67	64	71	67	64	62
0.80	77	73	70	76	73	70	76	72	70	67
1.00	80	76	73	79	76	73	78	75	73	70
1.25	82	79	77	82	78	76	80	78	76	73
1.50	84	81	79	83	81	78	82	79	78	74
2.00	86	83	81	85	82	80	83	81	79	75
2.50	87	84	82	86	84	82	84	82	80	76
3.00	88	86	84	87	85	83	84	83	81	76
4.00	90	88	86	88	86	85	85	84	83	78
5.00	91	89	88	89	88	86	86	85	84	78
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2024-7-25

γ Range: 0 - 180DEG
γ 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-1083A 24R
DRIVER: PUP20A-1WMC 500mA
30minutes warm-up

ISOCANDELA DIAGRAM

Test:U:120.07V I:0.1758A P:20.991W PF:0.9935 Freq:59.98Hz Lamp Flux:1897.7x1 lm		
NAME: 2418.120-LEA-15	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2407240944
MFR.: RISE	SUR.: 0.0064m2	Shielding Angle:

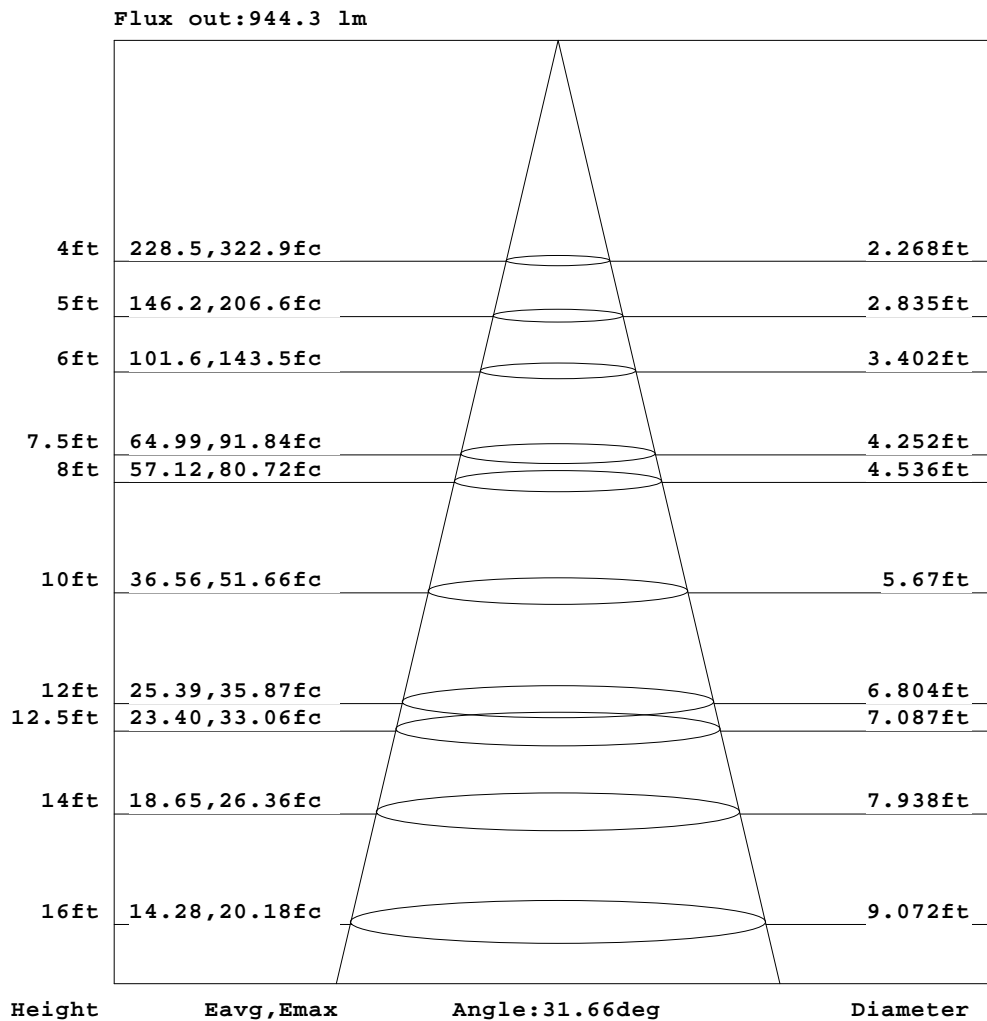


C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2024-7-25

γ Range: 0 - 180DEG
γ 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-1083A 24R
DRIVER: PUP20A-1WMC 500mA
30minutes warm-up

AAI Figure

Test:U:120.07V I:0.1758A P:20.991W PF:0.9935 Freq:59.98Hz Lamp Flux:1897.7x1 lm		
NAME: 2418.120-LEA-15	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2407240944
MFR.: RISE	SUR.: 0.0064m2	Shielding Angle:



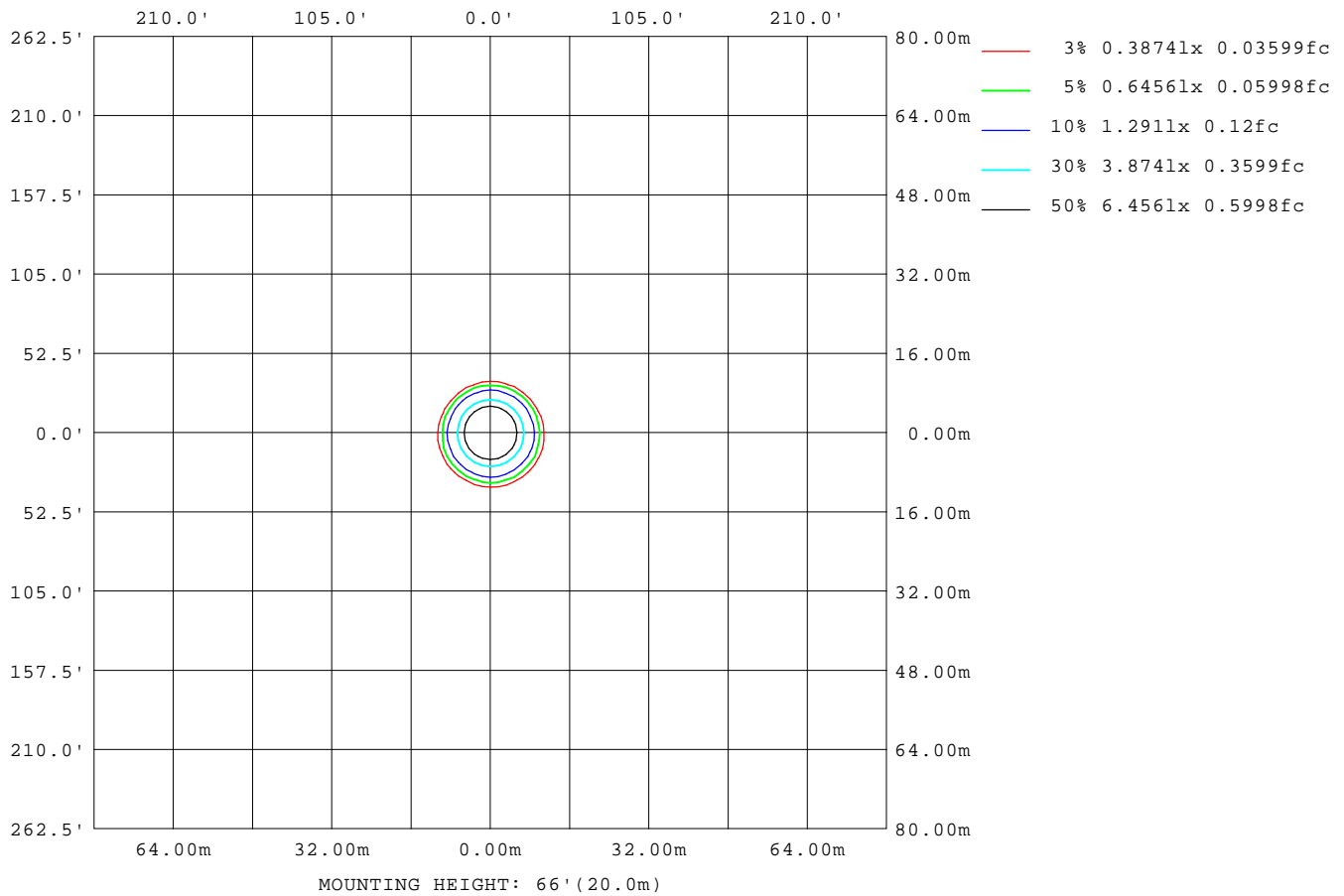
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: zoe
Test Date: 2024-7-25

γ Range: 0 - 180DEG
γ 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-1083A 24R
DRIVER: PUP20A-1WMC 500mA
30minutes warm-up

ISOLUX DIAGRAM

Test:U:120.07V I:0.1758A P:20.991W PF:0.9935 Freq:59.98Hz Lamp Flux:1897.7x1 lm		
NAME: 2418.120-LEA-15	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2407240944
MFR.: RISE	SUR.: 0.0064m2	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2024-7-25

γ Range: 0 - 180DEG
γ 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-1083A 24R
DRIVER: PUP20A-1WMC 500mA
30minutes warm-up

LED Avg.L Report

Test:U:120.07V I:0.1758A P:20.991W PF:0.9935 Freq:59.98Hz Lamp Flux:1897.7x1 lm		
NAME: 2418.120-LEA-15	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2407240944
MFR.: RISE	SUR.: 0.0064m2	Shielding Angle:

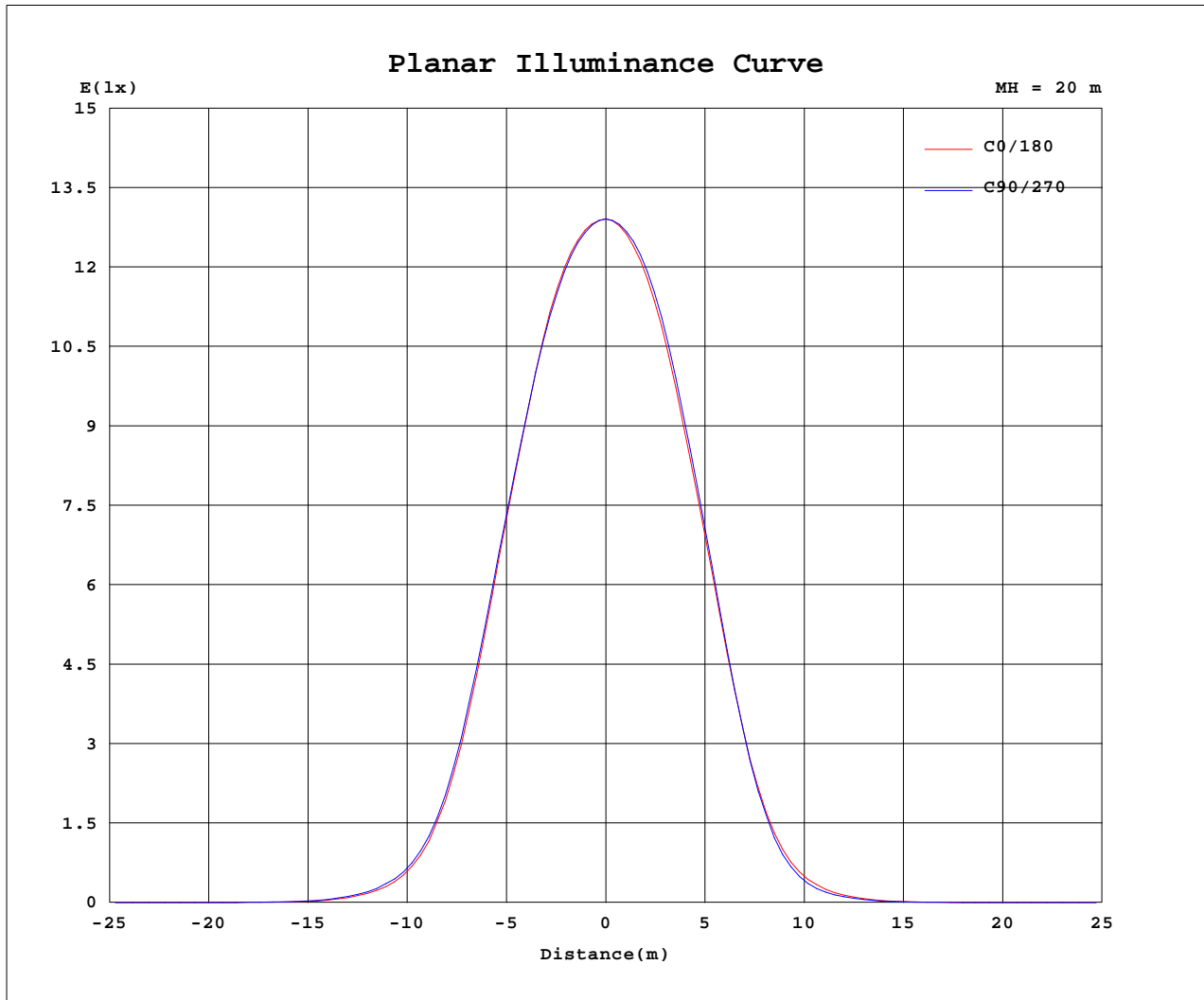
AvgL	cd/m2
L_0~180(65)av	41
L_0~180(75)av	52
L_0~180(85)av	115
L_90~270(65)av	40
L_90~270(75)av	45
L_90~270(85)av	89
L_45(65)av	35
L_45(75)av	33
L_45(85)av	40

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2024-7-25

γ Range: 0 - 180DEG
γ 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-1083A 24R
DRIVER: PUP20A-1WMC 500mA
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: 2024-7-25

γ Range: 0 - 180DEG
 γ 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-1083A 24R
 DRIVER: PUP20A-1WMC 500mA
 30minutes warm-up



LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.07V I:0.1758A P:20.991W PF:0.9935 Freq:59.98Hz Lamp Flux:1897.7x1 lm		
NAME: 2418.120-LEA-15	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2407240944
MFR.: RISE	SUR.: 0.0064m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	5165	5165	5165	5165	5165	5165	5165	5165	5165	5165	5165	5165						
5	4967	4959	4948	4945	4931	4921	4905	4916	4944	4951	4946	4950						
10	4194	4237	4232	4191	4186	4165	4073	4147	4187	4150	4190	4208						
15	2902	2955	2977	2946	2921	2856	2762	2776	2816	2815	2837	2871						
20	1440	1532	1520	1503	1473	1418	1304	1262	1296	1288	1327	1388						
25	481	541	534	524	494	472	411	373	365	363	402	435						
30	142	174	173	164	154	141	115	105	96.3	90.4	111	125						
35	35.6	55.6	56.3	44.9	48.1	44.2	27.7	31.6	28.3	19.7	32.9	36.2						
40	9.52	13.6	14.3	10.8	11.5	11.1	7.13	8.49	6.79	5.96	8.25	8.96						
45	2.59	4.27	4.32	2.69	3.39	3.49	2.07	2.60	2.50	1.96	3.05	2.80						
50	0.53	0.94	0.89	0.55	0.87	0.81	0.43	0.76	0.65	0.44	0.73	0.81						
55	0.26	0.26	0.26	0.24	0.24	0.24	0.23	0.23	0.24	0.25	0.24	0.25						
60	0.17	0.16	0.15	0.15	0.15	0.14	0.14	0.14	0.15	0.16	0.16	0.16						
65	0.12	0.10	0.10	0.10	0.10	0.09	0.10	0.09	0.09	0.11	0.10	0.10						
70	0.10	0.08	0.07	0.08	0.07	0.07	0.09	0.07	0.07	0.09	0.07	0.07						
75	0.09	0.06	0.06	0.07	0.06	0.05	0.08	0.05	0.05	0.07	0.05	0.06						
80	0.08	0.05	0.05	0.06	0.04	0.05	0.08	0.04	0.04	0.07	0.04	0.05						
85	0.06	0.03	0.03	0.05	0.02	0.02	0.07	0.03	0.02	0.05	0.02	0.03						
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						

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C Interval: 30.0DEG
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