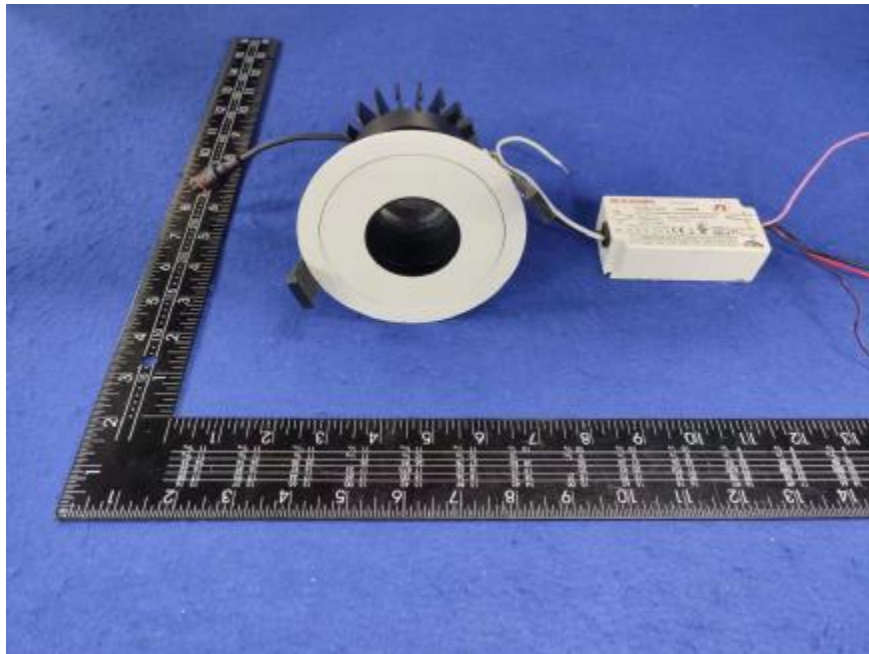


### Luminaire Photograph



Light Output Ratio:	38.0%	
Luminaire Power:	17.67 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.65	fine grid method.

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3 °C  
Operators: zoe  
Test Date: 2023-10-20

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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: BXRV-DR-1830G-1000-K-23 Ra: 90  
LENS: PM-1096C 50R  
DRIVER: PUP20A-1WMC 450mA  
30minutes warm-up

## LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

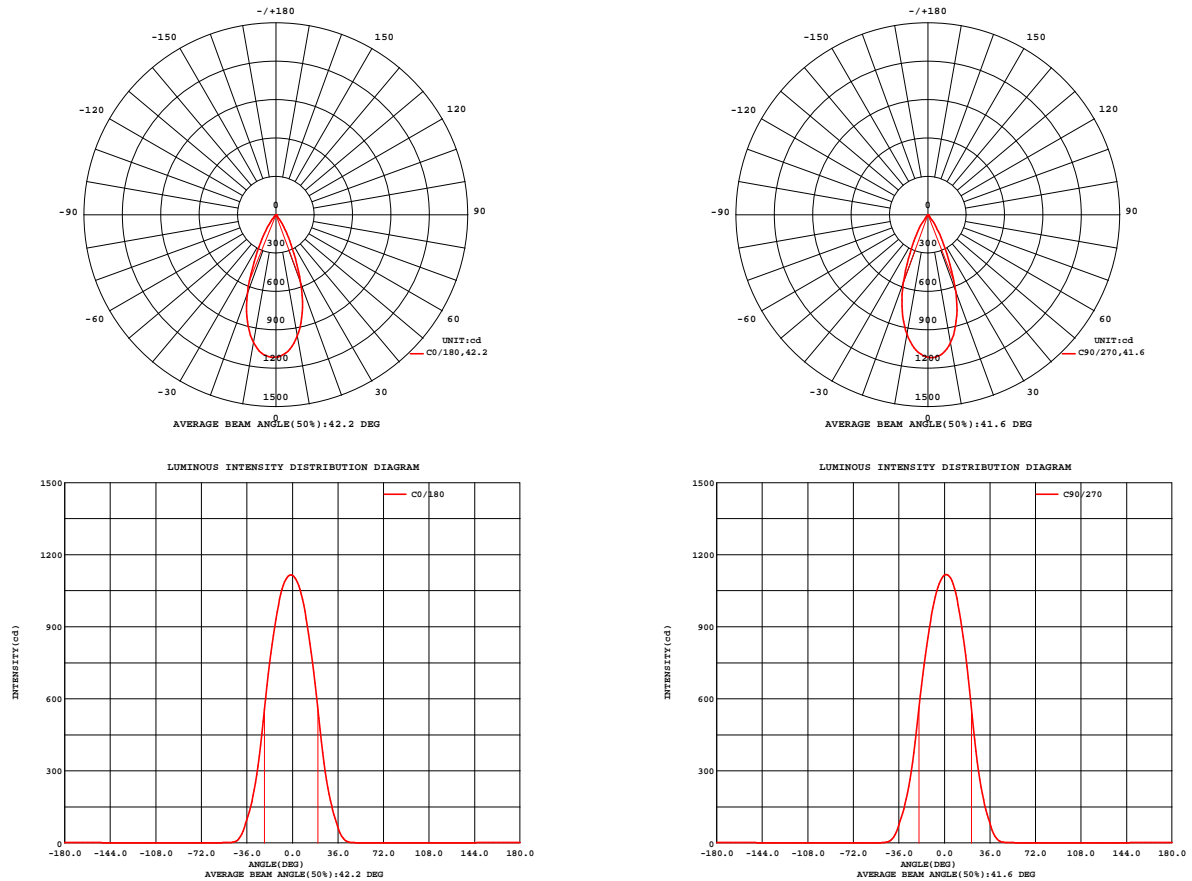


Fig. C0/C180

Fig. C90/C270

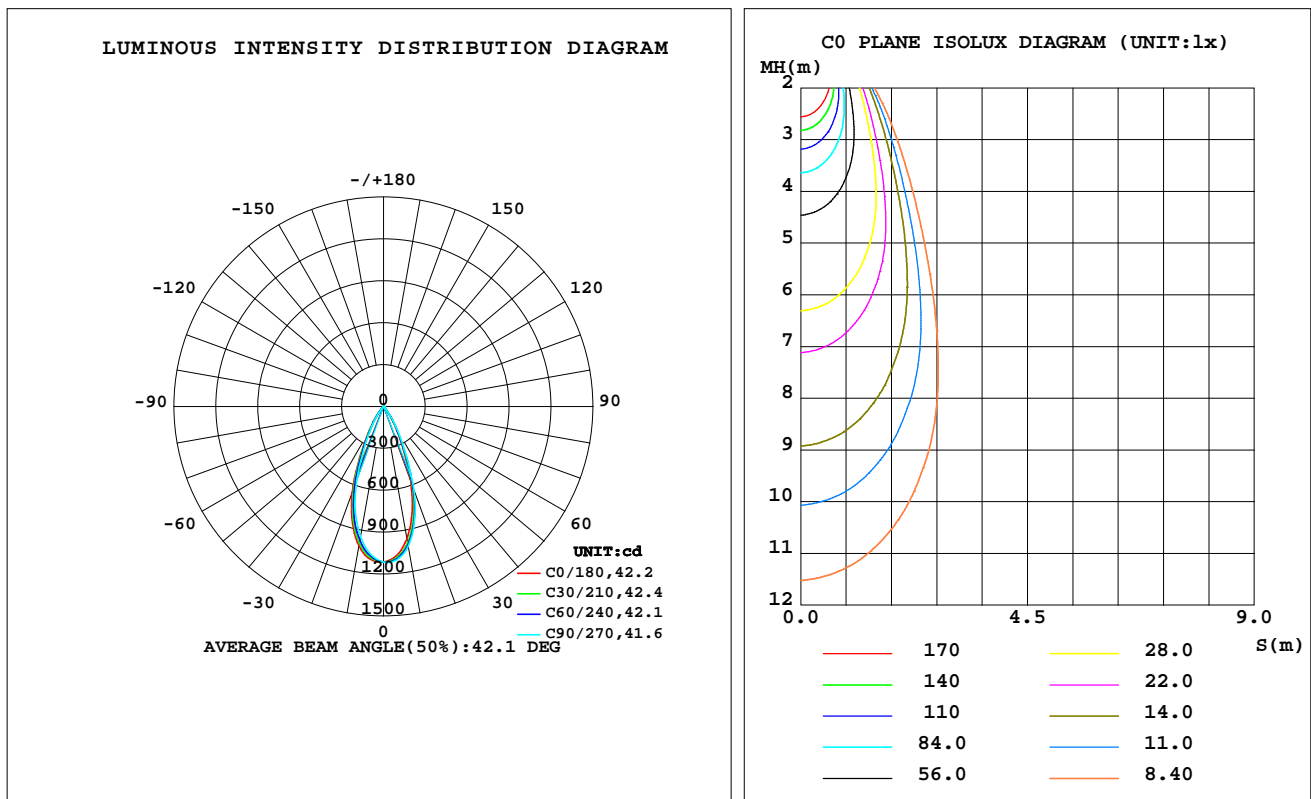
C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3 °C  
Operators: zoe  
Test Date: 2023-10-20

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: BXR-V-DR-1830G-1000-K-23 Ra: 90  
LENS: PM-1096C 50R  
DRIVER: PUP20A-1WMC 450mA  
30minutes warm-up

## LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.10V I:0.1480A P:17.673W PF:0.9933 Freq:59.98Hz Lamp Flux:1493.6x1 lm		
NAME: 2318.138-LEA-15-DW	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2310231260
MFR.: RISE	SUR.: 0.001589625m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 32.11 lm/W			
MODEL	Bridgelux	I <sub>max</sub> (cd)	1118	S/MH(C0/180)	0.68
NOMINAL POWER(W)	18	LOR(%)	38.0	S/MH(C90/270)	0.64
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	567.44	η UP,DN(C0-180)	0.1,19.3
NOMINAL FLUX(lm)	1493.6	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.1,18.5
LAMPS INSIDE	1	η up(%)	0.2	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	120	η down(%)	37.8	CIBSE SHR MAX	0.65



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2023-10-20

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:BXRV-DR-1830G-1000-K-23 Ra:90  
LENS:PM-1096C 50R  
DRIVER: PUP20A-1WMC 450mA  
30minutes warm-up

## ZONAL FLUX DIAGRAM

### ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum,lamp
10	963.4	998.3	1016	1021	1014	985.5	949.2	939.3	0- 10	100.3	100.3	17.7,6.72
20	569.4	612.4	636.5	654.7	656.5	618.5	563.9	541.5	10- 20	225.4	325.7	57.4,21.8
30	178.1	191.4	206.2	220.8	221.9	206.1	183.3	171.2	20- 30	169.1	494.8	87.2,33.1
40	21.37	25.18	28.75	34.98	36.16	31.83	24.83	20.59	30- 40	61.79	556.6	98.1,37.3
50	1.173	2.115	1.886	1.795	1.863	2.214	1.214	0.9421	40- 50	6.103	562.7	99.2,37.7
60	0.6704	1.180	1.077	1.078	1.096	1.290	0.7225	0.6424	50- 60	1.161	563.9	99.4,37.8
70	0.1502	0.4172	0.4468	0.4820	0.4873	0.5015	0.1932	0.0849	60- 70	0.6390	564.5	99.5,37.8
80	0.0546	0.0849	0.0982	0.1257	0.1440	0.1143	0.0537	0.0509	70- 80	0.2146	564.7	99.5,37.8
90	0.0102	0.0070	0.0112	0.0039	0.0047	0.0057	0.0087	0.0033	80- 90	0.0324	564.8	99.5,37.8
100	0.0155	0.0099	0.0090	0.0051	0.0102	0.0068	0.0112	0.0076	90-100	0.0079	564.8	99.5,37.8
110	0.0167	0.0137	0.0128	0.0109	0.0142	0.0132	0.0146	0.0105	100-110	0.0116	564.8	99.5,37.8
120	0.0635	0.0570	0.0506	0.0425	0.0366	0.0411	0.0439	0.0473	110-120	0.0237	564.8	99.5,37.8
130	0.3101	0.2751	0.2404	0.2142	0.1983	0.2192	0.2360	0.2535	120-130	0.1084	564.9	99.6,37.8
140	0.9042	0.8305	0.7678	0.6780	0.6999	0.7036	0.7649	0.7940	130-140	0.3608	565.3	99.6,37.8
150	1.639	1.580	1.488	1.325	1.287	1.342	1.448	1.509	140-150	0.6899	566.0	99.7,37.9
160	1.888	1.951	2.132	1.724	1.749	1.694	1.889	1.857	150-160	0.7742	566.7	99.9,37.9
170	1.826	1.884	1.830	1.771	1.623	1.624	1.667	1.765	160-170	0.5174	567.3	100,38
180	1.936	1.899	1.935	1.923	1.940	1.900	1.928	1.923	170-180	0.1698	567.4	100,38
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2023-10-20

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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:BXRV-DR-1830G-1000-K-23 Ra:90  
LENS:PM-1096C 50R  
DRIVER: PUP20A-1WMC 450mA  
30minutes warm-up

### LUMINANCE LIMITATION CURVES

Test:U:120.10V I:0.1480A P:17.673W PF:0.9933 Freq:59.98Hz  
Lamp Flux:1493.6x1 lm

NAME: 2318.138-LEA-15-DW

TYPE:

WEIGHT:

SPEC.: 3000K

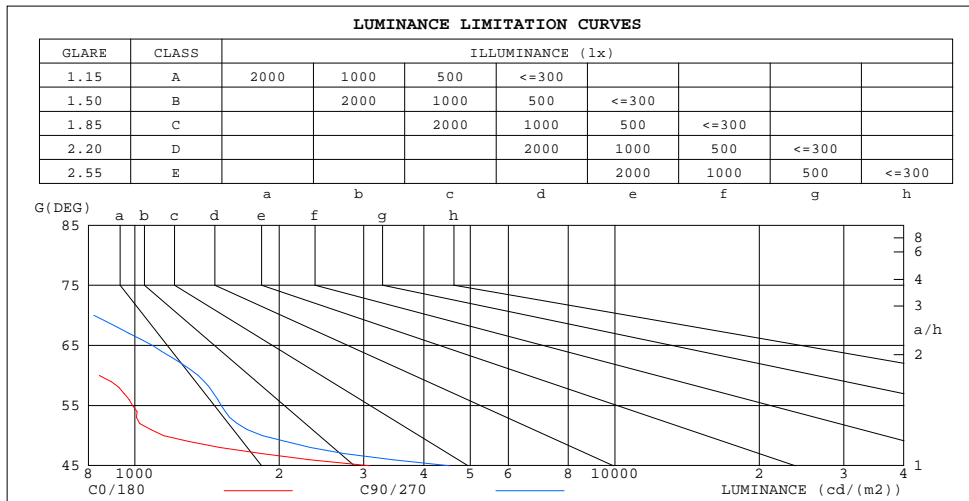
DIM.:

SERIAL No.: 2310231260

MFR.: RISE

SUR.: 0.001589625m2

Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	249	63
80	198	356
75	186	605
70	276	822
65	534	1088
60	844	1355
55	990	1513
50	1149	1845
45	3082	4520

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2023-10-20

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:BXRV-DR-1830G-1000-K-23 Ra:90  
LENS:PM-1096C 50R  
DRIVER: PUP20A-1WMC 450mA  
30minutes warm-up

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.10V I:0.1480A P:17.673W PF:0.9933 Freq:59.98Hz  
Lamp Flux:1493.6x1 lm

NAME: 2318.138-LEA-15-DW

TYPE:

WEIGHT:

SPEC.: 3000K

DIM.:

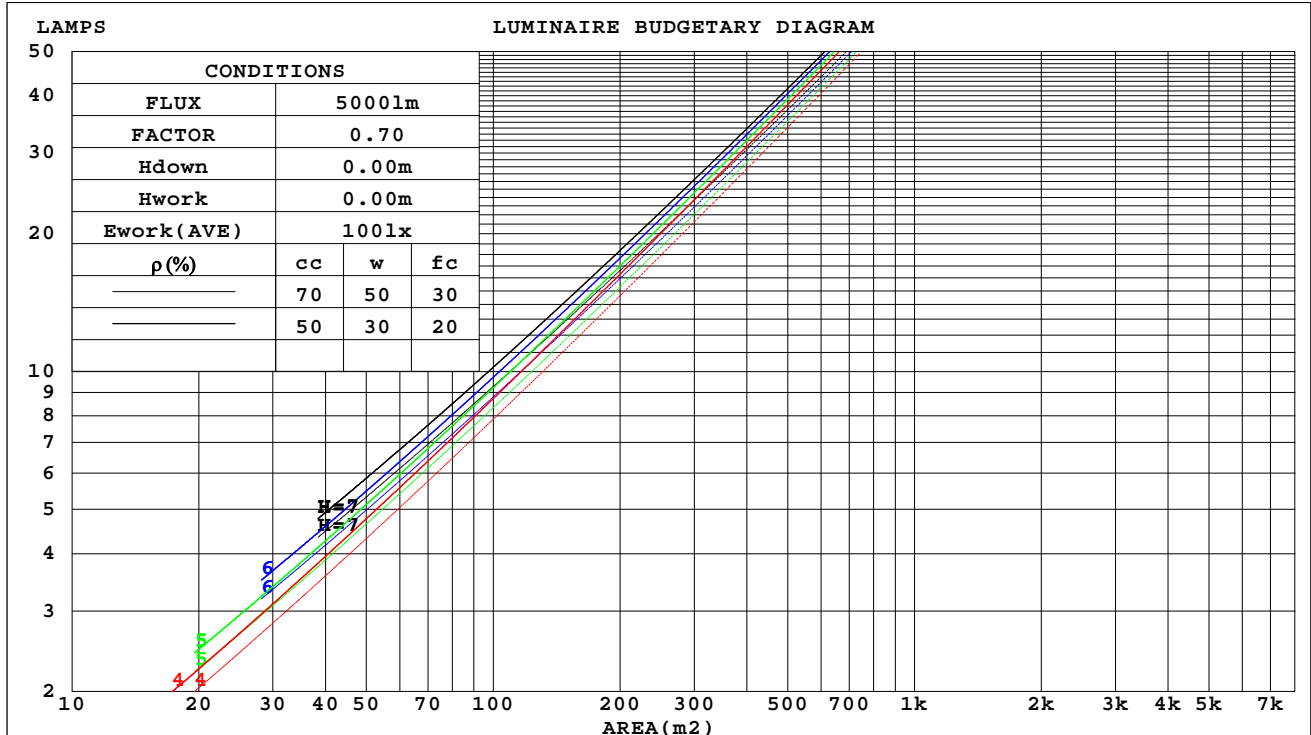
SERIAL No.: 2310231260

MFR.: RISE

SUR.: 0.001589625m2

Shielding Angle:

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	.45	.45	.45	.44	.44	.44	.42	.42	.42	.40	.40	.40	.39	.39	.39	.38
1.0	.42	.42	.41	.42	.41	.40	.40	.39	.39	.39	.38	.38	.37	.37	.37	.36
2.0	.40	.39	.38	.39	.38	.37	.38	.37	.36	.37	.36	.35	.36	.35	.35	.34
3.0	.38	.36	.35	.37	.36	.35	.36	.35	.34	.35	.34	.33	.35	.34	.33	.32
4.0	.36	.34	.33	.35	.34	.32	.35	.33	.32	.34	.33	.32	.33	.32	.31	.31
5.0	.34	.32	.31	.34	.32	.31	.33	.31	.30	.32	.31	.30	.32	.31	.30	.29
6.0	.32	.30	.29	.32	.30	.29	.32	.30	.29	.31	.30	.29	.31	.29	.28	.28
7.0	.31	.29	.28	.31	.29	.28	.30	.29	.27	.30	.28	.27	.29	.28	.27	.27
8.0	.30	.28	.26	.29	.27	.26	.29	.27	.26	.29	.27	.26	.28	.27	.26	.25
9.0	.28	.26	.25	.28	.26	.25	.28	.26	.25	.27	.26	.25	.27	.26	.25	.24
10.0	.27	.25	.24	.27	.25	.24	.27	.25	.24	.26	.25	.24	.26	.25	.24	.23



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2023-10-20

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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:BXRV-DR-1830G-1000-K-23 Ra:90  
LENS:PM-1096C 50R  
DRIVER: PUP20A-1WMC 450mA  
30minutes warm-up

### WEC AND CCEC

Test:U:120.10V I:0.1480A P:17.673W PF:0.9933 Freq:59.98Hz Lamp Flux:1493.6x1 lm		
NAME: 2318.138-LEA-15-DW	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2310231260
MFR.: RISE	SUR.: 0.001589625m2	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.060	.034	.011	.057	.033	.010	.052	.030	.010	.048	.028	.009	.044	.025	.008	
2.0	.056	.031	.009	.054	.030	.009	.050	.028	.009	.046	.026	.008	.043	.024	.008	
3.0	.053	.028	.008	.051	.028	.008	.048	.026	.008	.045	.025	.008	.042	.023	.007	
4.0	.051	.026	.008	.049	.026	.008	.046	.024	.007	.043	.023	.007	.041	.022	.007	
5.0	.048	.024	.007	.047	.024	.007	.044	.023	.007	.042	.022	.007	.040	.021	.006	
6.0	.046	.023	.007	.045	.023	.006	.042	.022	.006	.040	.021	.006	.038	.020	.006	
7.0	.044	.022	.006	.043	.021	.006	.041	.021	.006	.039	.020	.006	.037	.019	.006	
8.0	.042	.020	.006	.041	.020	.006	.039	.020	.006	.038	.019	.006	.036	.019	.005	
9.0	.040	.019	.005	.039	.019	.005	.038	.019	.005	.036	.018	.005	.035	.018	.005	
10.0	.039	.019	.005	.038	.018	.005	.037	.018	.005	.035	.018	.005	.034	.017	.005	

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.074	.074	.074	.063	.063	.063	.043	.043	.043	.025	.025	.025	.008	.008	.008	
1.0	.066	.061	.057	.056	.053	.049	.039	.036	.034	.022	.021	.020	.007	.007	.006	
2.0	.060	.052	.045	.051	.045	.039	.035	.031	.027	.020	.018	.016	.006	.006	.005	
3.0	.054	.044	.037	.047	.038	.032	.032	.027	.022	.018	.016	.013	.006	.005	.004	
4.0	.050	.039	.030	.043	.034	.026	.030	.023	.018	.017	.014	.011	.006	.004	.004	
5.0	.047	.034	.025	.040	.030	.022	.028	.021	.015	.016	.012	.009	.005	.004	.003	
6.0	.043	.031	.021	.037	.026	.019	.026	.019	.013	.015	.011	.008	.005	.004	.003	
7.0	.041	.028	.018	.035	.024	.016	.024	.017	.011	.014	.010	.007	.005	.003	.002	
8.0	.039	.025	.016	.033	.022	.014	.023	.015	.010	.013	.009	.006	.004	.003	.002	
9.0	.037	.023	.014	.032	.020	.012	.022	.014	.009	.013	.008	.005	.004	.003	.002	
10.0	.035	.021	.012	.030	.019	.011	.021	.013	.008	.012	.008	.005	.004	.003	.002	

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2023-10-20

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:BXRV-DR-1830G-1000-K-23 Ra:90  
LENS:PM-1096C 50R  
DRIVER: PUP20A-1WMC 450mA  
30minutes warm-up

## UGR(Unified Glare Rating) Table

Test:U:120.10V I:0.1480A P:17.673W PF:0.9933 Freq:59.98Hz Lamp Flux:1493.6x1 lm										
NAME: 2318.138-LEA-15-DW					TYPE:			WEIGHT:		
SPEC.: 3000K					DIM.:			SERIAL No.: 2310231260		
MFR.: RISE					SUR.: 0.001589625m2			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	13.7	14.5	13.9	14.7	14.8	14.3	15.1	14.6	15.3	15.5
3H	13.5	14.3	13.8	14.5	14.7	14.2	14.9	14.4	15.1	15.3
4H	13.5	14.2	13.7	14.4	14.6	14.1	14.8	14.4	15.0	15.3
6H	13.4	14.0	13.7	14.3	14.5	14.0	14.7	14.3	14.9	15.2
8H	13.3	14.0	13.6	14.2	14.5	14.0	14.6	14.3	14.9	15.1
12H	13.3	13.9	13.6	14.2	14.4	13.9	14.5	14.3	14.8	15.1
4H 2H	13.5	14.2	13.7	14.4	14.6	14.1	14.8	14.4	15.0	15.3
3H	13.3	13.9	13.6	14.2	14.5	13.9	14.5	14.3	14.8	15.1
4H	13.2	13.8	13.5	14.1	14.4	13.8	14.4	14.2	14.7	15.0
6H	13.1	13.6	13.5	13.9	14.3	13.8	14.2	14.1	14.6	14.9
8H	13.0	13.5	13.4	13.9	14.2	13.7	14.1	14.1	14.5	14.9
12H	13.0	13.4	13.4	13.8	14.2	13.6	14.1	14.1	14.4	14.8
8H 4H	13.1	13.5	13.4	13.9	14.2	13.7	14.1	14.1	14.5	14.9
6H	12.9	13.3	13.4	13.7	14.1	13.6	14.0	14.0	14.4	14.8
8H	12.9	13.2	13.3	13.6	14.1	13.5	13.9	14.0	14.3	14.7
12H	12.8	13.1	13.3	13.6	14.0	13.5	13.8	13.9	14.2	14.7
12H 4H	13.0	13.4	13.4	13.8	14.2	13.6	14.1	14.1	14.4	14.8
6H	12.9	13.2	13.3	13.6	14.1	13.5	13.9	14.0	14.3	14.7
8H	12.8	13.1	13.3	13.6	14.0	13.5	13.8	13.9	14.2	14.7
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 4.4 / -13.1					+ 4.8 / -12.2				
1.5H	+ 7.1 / -12.8					+ 7.6 / -11.7				
2.0H	+ 3.2 / - 3.0					+ 4.1 / - 2.0				

CIE Pub.117, 1494 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.4)  
Area: 0.00158963 m2

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2023-10-20

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:BXRV-DR-1830G-1000-K-23 Ra:90  
LENS:PM-1096C 50R  
DRIVER: PUP20A-1WMC 450mA  
30minutes warm-up

### UTILIZATION FACTORS TABLE

Test:U:120.10V I:0.1480A P:17.673W PF:0.9933 Freq:59.98Hz Lamp Flux:1493.6x1 lm		
NAME: 2318.138-LEA-15-DW	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2310231260
MFR.: RISE	SUR.: 0.001589625m2	Shielding Angle:

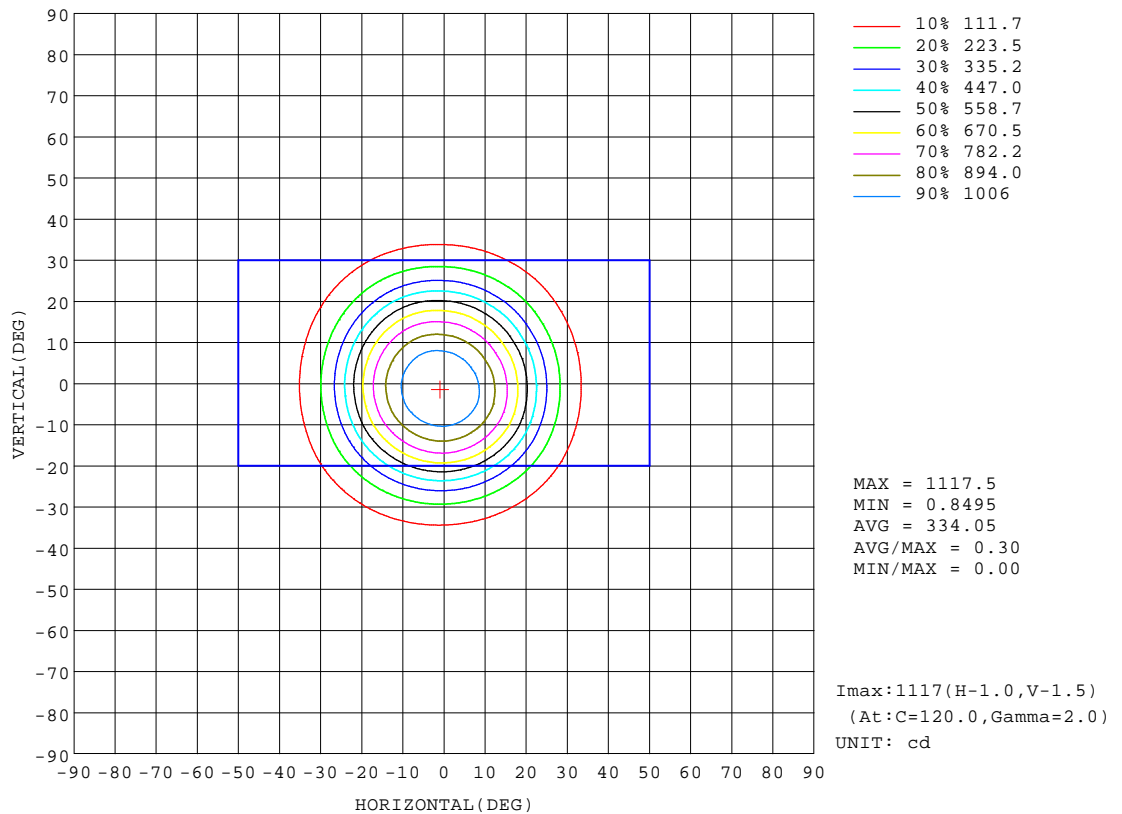
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	34	32	31	34	32	31	34	32	31	30
0.80	37	35	34	37	35	34	36	35	34	32
1.00	38	37	35	38	36	35	38	36	35	34
1.25	40	38	37	39	38	37	39	37	36	35
1.50	41	39	38	40	39	38	39	38	37	36
2.00	42	40	39	41	40	39	40	39	38	36
2.50	42	41	40	42	40	39	40	39	39	37
3.00	43	42	41	42	41	40	41	40	39	37
4.00	43	42	42	43	42	41	41	41	40	37
5.00	44	43	42	43	42	42	42	41	41	38
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:2023-10-20

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:BXRV-DR-1830G-1000-K-23 Ra:90  
LENS:PM-1096C 50R  
DRIVER: PUP20A-1WMC 450mA  
30minutes warm-up

## ISOCANDELA DIAGRAM

Test:U:120.10V I:0.1480A P:17.673W PF:0.9933 Freq:59.98Hz Lamp Flux:1493.6x1 lm		
NAME: 2318.138-LEA-15-DW	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2310231260
MFR.: RISE	SUR.: 0.001589625m2	Shielding Angle:

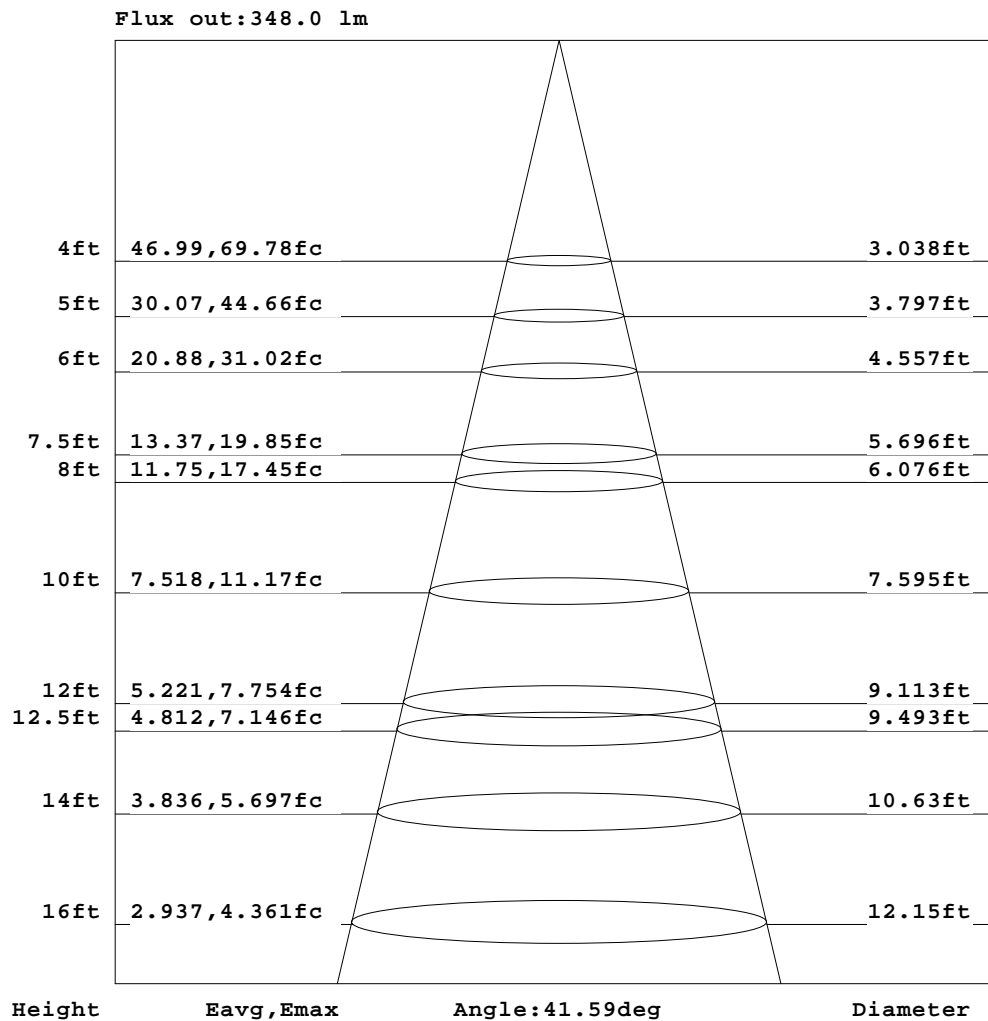


C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2023-10-20

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:BXR-V-DR-1830G-1000-K-23 Ra:90  
LENS:PM-1096C 50R  
DRIVER: PUP20A-1WMC 450mA  
30minutes warm-up

## AAI Figure

Test:U:120.10V I:0.1480A P:17.673W PF:0.9933 Freq:59.98Hz Lamp Flux:1493.6x1 lm		
NAME: 2318.138-LEA-15-DW	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2310231260
MFR.: RISE	SUR.: 0.001589625m2	Shielding Angle:



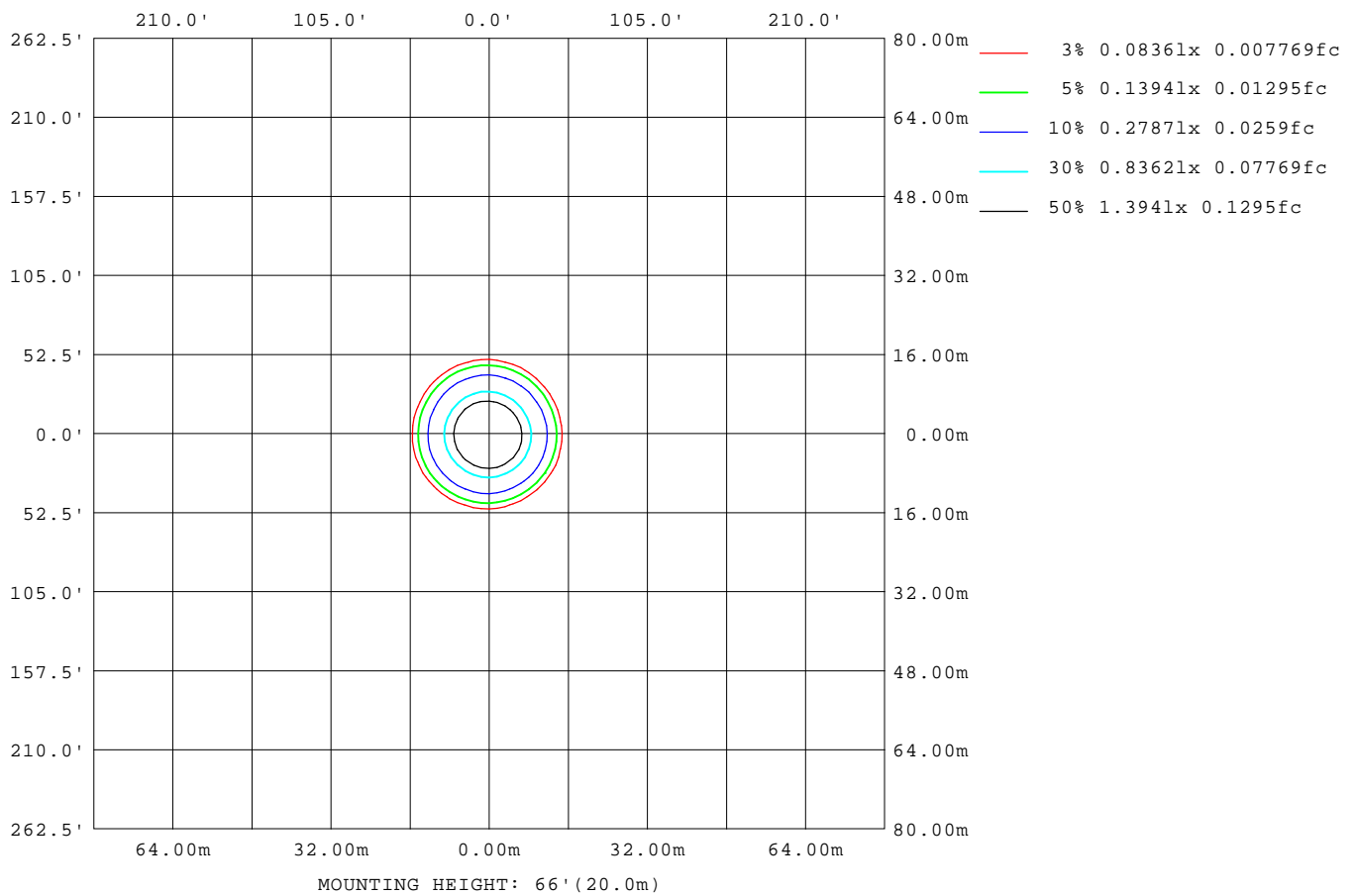
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3°C  
Operators: zoe  
Test Date: 2023-10-20

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: BXR-V-DR-1830G-1000-K-23 Ra: 90  
LENS: PM-1096C 50R  
DRIVER: PUP20A-1WMC 450mA  
30minutes warm-up

## ISOLUX DIAGRAM

Test:U:120.10V I:0.1480A P:17.673W PF:0.9933 Freq:59.98Hz Lamp Flux:1493.6x1 lm		
NAME: 2318.138-LEA-15-DW	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2310231260
MFR.: RISE	SUR.: 0.001589625m2	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3°C  
Operators:zoe  
Test Date:2023-10-20

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:BXRV-DR-1830G-1000-K-23 Ra:90  
LENS:PM-1096C 50R  
DRIVER: PUP20A-1WMC 450mA  
30minutes warm-up

## LED Avg.L Report

Test:U:120.10V I:0.1480A P:17.673W PF:0.9933 Freq:59.98Hz Lamp Flux:1493.6x1 lm		
NAME: 2318.138-LEA-15-DW	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2310231260
MFR.: RISE	SUR.: 0.001589625m2	Shielding Angle:

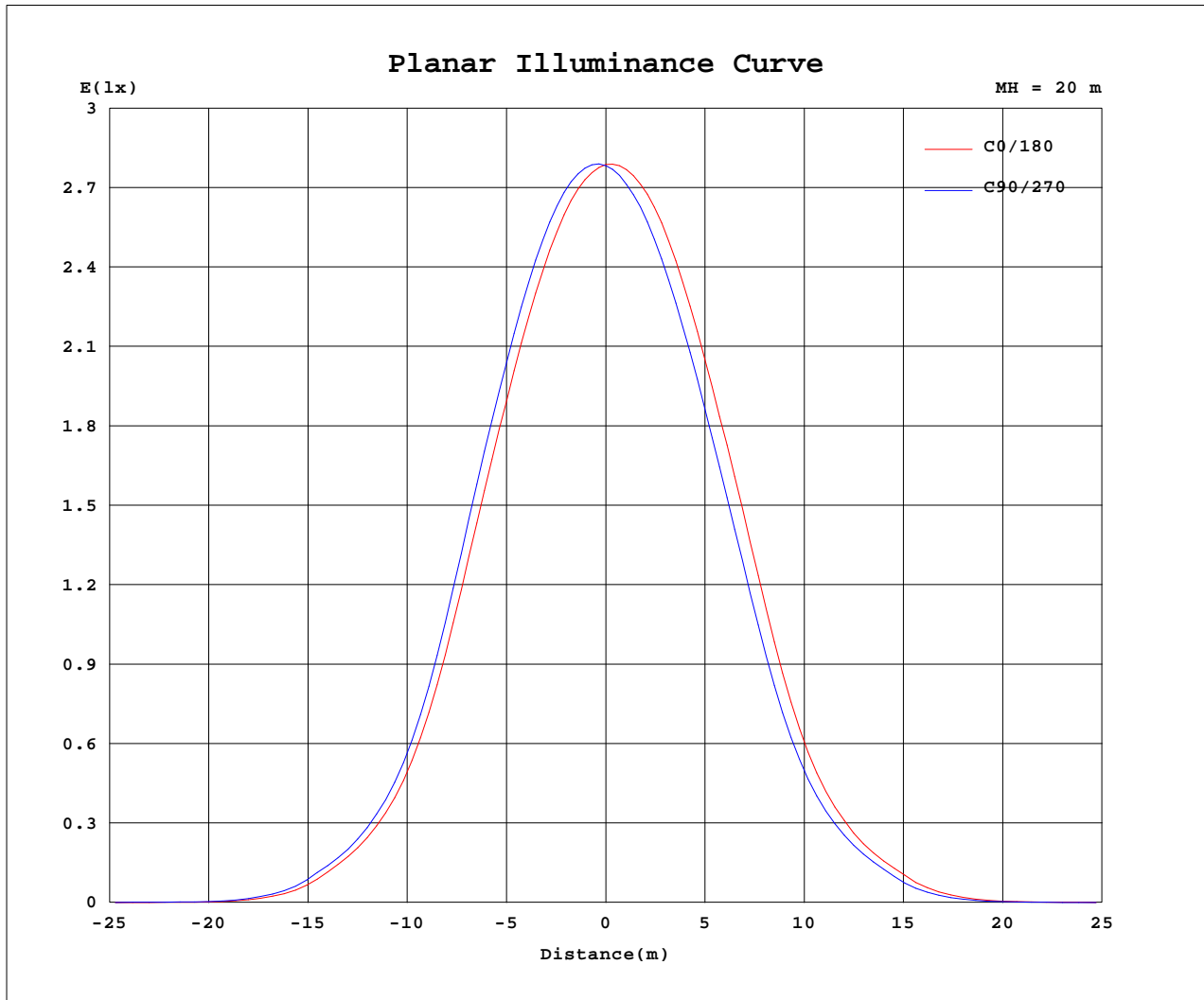
AvgL	cd/m2
L_0~180(65)av	840
L_0~180(75)av	434
L_0~180(85)av	235
L_90~270(65)av	856
L_90~270(75)av	413
L_90~270(85)av	76
L_45(65)av	1009
L_45(75)av	501
L_45(85)av	98

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2023-10-20

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:BXRV-DR-1830G-1000-K-23 Ra:90  
LENS:PM-1096C 50R  
DRIVER: PUP20A-1WMC 450mA  
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: 2023-10-20

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: BXRV-DR-1830G-1000-K-23 Ra: 90  
 LENS: PM-1096C 50R  
 DRIVER: PUP20A-1WMC 450mA  
 30minutes warm-up

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.10V I:0.1480A P:17.673W PF:0.9933 Freq:59.98Hz Lamp Flux:1493.6x1 lm		
NAME: 2318.138-LEA-15-DW	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2310231260
MFR.: RISE	SUR.: 0.001589625m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	1114	1114	1114	1114	1114	1114	1114	1114	1114	1114	1114	1114						
5	1072	1086	1095	1102	1103	1103	1097	1086	1075	1063	1059	1061						
10	963	991	1006	1016	1020	1022	1014	996	975	949	937	941						
15	793	829	845	858	865	871	863	841	815	779	762	764						
20	569	605	619	636	648	662	657	632	605	564	542	541						
25	334	357	366	382	396	410	407	388	367	336	318	315						
30	178	189	193	206	216	225	222	211	201	183	173	169						
35	84.3	91.9	94.5	102	110	117	114	108	103	92.4	85.2	79.9						
40	21.4	24.5	25.9	28.7	32.8	37.1	36.2	33.3	30.3	24.8	21.8	19.4						
45	3.46	4.48	5.04	5.08	5.49	6.12	6.11	6.19	5.58	4.10	3.08	2.81						
50	1.17	1.94	2.28	1.89	1.78	1.81	1.86	2.34	2.09	1.21	0.95	0.93						
55	0.90	1.48	1.76	1.38	1.31	1.33	1.35	1.77	1.57	0.93	0.90	0.88						
60	0.67	1.06	1.30	1.08	1.07	1.09	1.10	1.38	1.20	0.72	0.65	0.64						
65	0.36	0.65	0.84	0.73	0.75	0.78	0.77	0.92	0.78	0.42	0.31	0.29						
70	0.15	0.35	0.49	0.45	0.47	0.49	0.49	0.56	0.44	0.19	0.09	0.08						
75	0.08	0.17	0.25	0.25	0.27	0.28	0.28	0.30	0.22	0.09	0.07	0.06						
80	0.05	0.07	0.10	0.10	0.11	0.14	0.14	0.14	0.09	0.05	0.05	0.05						
85	0.03	0.02	0.01	0.01	0.01	0.02	0.03	0.03	0.01	0.01	0.01	0.02						
90	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00						
95	0.02	0.01	0.01	0.01	0.00	0.00	0.01	0.01	0.00	0.01	0.00	0.01						
100	0.02	0.01	0.01	0.01	0.00	0.01	0.01	0.01	0.00	0.01	0.01	0.01						
105	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01						
110	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01						
115	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02						
120	0.06	0.06	0.06	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.05						
125	0.14	0.14	0.13	0.12	0.10	0.10	0.09	0.10	0.10	0.11	0.11	0.12						
130	0.31	0.29	0.26	0.24	0.22	0.21	0.20	0.22	0.22	0.24	0.25	0.26						
135	0.56	0.53	0.49	0.45	0.41	0.40	0.40	0.41	0.43	0.45	0.47	0.49						
140	0.90	0.84	0.82	0.77	0.69	0.66	0.70	0.70	0.71	0.76	0.78	0.81						
145	1.29	1.22	1.19	1.22	1.01	0.96	1.06	1.00	1.03	1.12	1.13	1.18						
150	1.64	1.59	1.57	1.49	1.37	1.28	1.29	1.32	1.37	1.45	1.49	1.53						
155	1.88	1.83	1.85	1.81	1.64	1.52	1.52	1.52	1.62	1.71	1.75	1.74						
160	1.89	1.91	1.99	2.13	1.82	1.63	1.75	1.56	1.82	1.89	1.93	1.79						
165	1.86	1.91	1.97	2.10	1.86	1.72	1.66	1.60	1.79	1.93	1.85	1.82						
170	1.83	1.92	1.84	1.83	1.78	1.76	1.62	1.61	1.63	1.67	1.73	1.80						
175	1.88	1.94	1.84	1.84	1.89	1.78	1.71	1.64	1.72	1.67	1.68	1.85						
180	1.94	1.90	1.90	1.94	1.91	1.94	1.94	1.90	1.90	1.93	1.91	1.93						

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2023-10-20

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:BXRV-DR-1830G-1000-K-23 Ra:90  
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30minutes warm-up