

Luminaire Photograph



Light Output Ratio:	75.5%	
Luminaire Power:	17.68 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	1.00	fine grid method.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zoe
Test Date:2023-3-6

γ Range: 0 - 180DEG
γ 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-30G1000-A-83 Ra:90
LENS:PM-1082 15R
DRIVER: PUP20A-1WMC 450mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

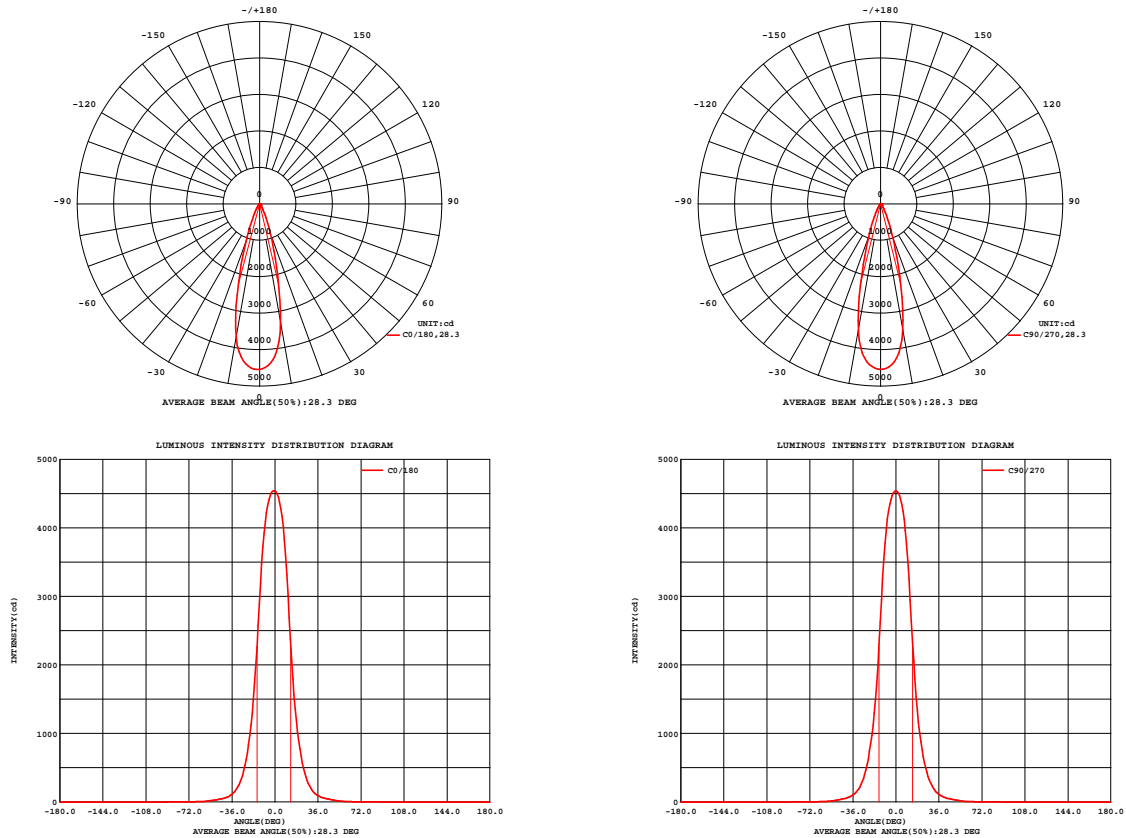


Fig. C0/C180

Fig. C90/C270

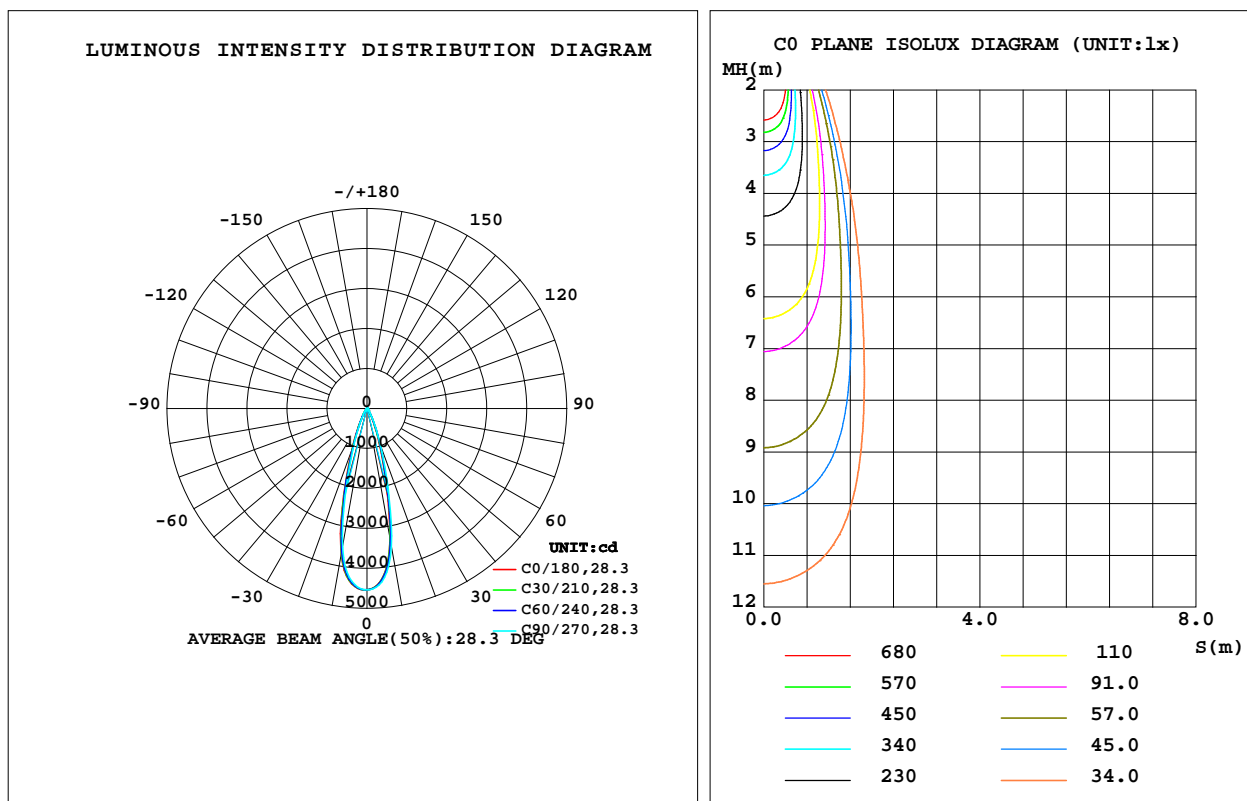
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30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.96V I:0.1481A P:17.681W PF:0.9940 Freq:59.98Hz Lamp Flux:1749.31x1 lm					
NAME: 2218.143-LEA-14			TYPE:		WEIGHT:
SPEC.:3000K			DIM.:		SERIAL No.:2303060232
MFR.: RISE			SUR.:0.003737385m2		Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 74.73 lm/W
MODEL	Bridgelux	I _{max} (cd)	4539	S/MH(C0/180)	0.48	
NOMINAL POWER(W)	18	LOR(%)	75.5	S/MH(C90/270)	0.46	
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1321.4	η UP,DN(C0-180)	0.0,37.4	
NOMINAL FLUX(lm)	1749.31	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,38.2	
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.00	
TEST VOLTAGE(V)	120	η down(%)	75.5	CIBSE SHR MAX	1.00	



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30minutes warm-up

ZONAL FLUX DIAGRAM

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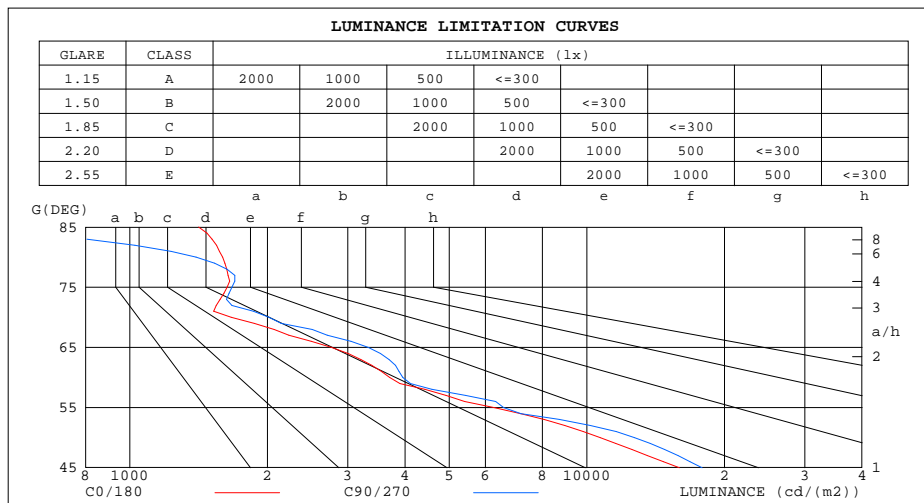
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	3319	3376	3524	3626	3724	3664	3535	3438	0- 10	389.8	389.8	29.5,22.3
20	887.5	938.0	1010	1071	1118	1067	974.2	938.2	10- 20	561.4	951.2	72,54.4
30	202.7	224.1	244.2	253.6	253.8	243.1	223.3	216.3	20- 30	234.5	1186	89.7,67.8
40	62.90	68.03	72.58	74.18	71.29	69.49	66.04	65.04	30- 40	79.66	1265	95.8,72.3
50	25.70	28.55	30.58	31.00	29.46	27.55	25.26	25.70	40- 50	35.09	1301	98.4,74.3
60	6.918	7.859	7.391	8.590	7.821	7.261	6.865	6.863	50- 60	14.04	1315	99.5,75.1
70	2.133	2.460	2.578	2.759	2.549	2.240	1.988	2.006	60- 70	4.810	1319	99.8,75.4
80	1.036	1.050	0.9060	0.8415	1.195	0.9107	0.6270	0.7764	70- 80	1.651	1321	100,75.5
90	0	0	0	0	0	0	0	0	80- 90	0.3334	1321	100,75.5
100	0	0	0	0	0	0	0	0	90-100	0	1321	100,75.5
110	0	0	0	0	0	0	0	0	100-110	0	1321	100,75.5
120	0	0	0	0	0	0	0	0	110-120	0	1321	100,75.5
130	0	0	0	0	0	0	0	0	120-130	0	1321	100,75.5
140	0	0	0	0	0	0	0	0	130-140	0	1321	100,75.5
150	0	0	0	0	0	0	0	0	140-150	0	1321	100,75.5
160	0	0	0	0	0	0	0	0	150-160	0	1321	100,75.5
170	0	0	0	0	0	0	0	0	160-170	0	1321	100,75.5
180	0	0	0	0	0	0	0	0	170-180	0	1321	100,75.5
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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30minutes warm-up

LUMINANCE LIMITATION CURVES

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NAME: 2218.143-LEA-14	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2303060232
MFR.: RISE	SUR.:0.003737385m2	Shielding Angle:



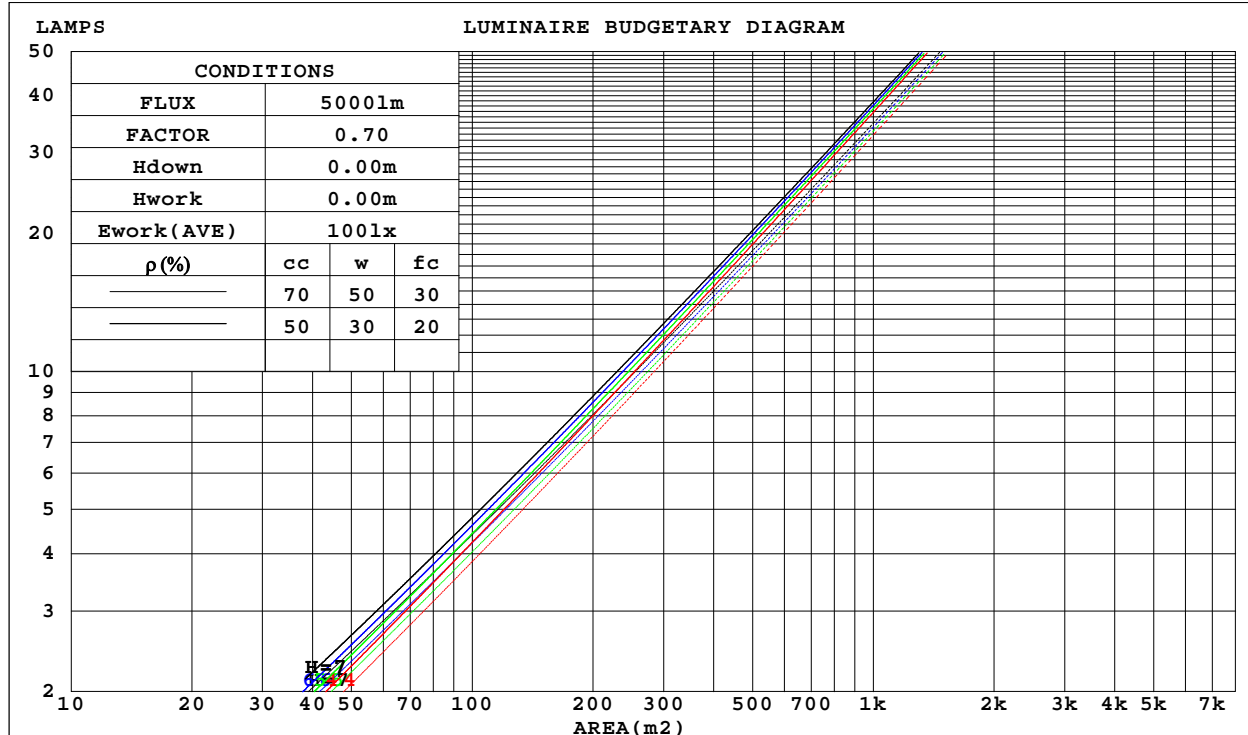
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.:3000K	DIM.:	SERIAL No.:2303060232
MFR.: RISE	SUR.:0.003737385m2	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			Coefficients of Utilization(CU)												
0.0	.90	.90	.90	.88	.88	.88	.84	.84	.84	.80	.80	.80	.77	.77	.77	.76
1.0	.85	.83	.82	.83	.82	.81	.80	.79	.78	.77	.77	.76	.75	.74	.74	.72
2.0	.80	.78	.76	.79	.77	.75	.77	.75	.73	.75	.73	.72	.73	.71	.70	.69
3.0	.77	.74	.71	.76	.73	.71	.74	.71	.70	.72	.70	.68	.70	.69	.67	.66
4.0	.73	.70	.67	.72	.69	.67	.71	.68	.66	.69	.67	.65	.68	.66	.65	.64
5.0	.70	.67	.64	.69	.66	.64	.68	.65	.63	.67	.65	.63	.66	.64	.62	.61
6.0	.67	.64	.61	.67	.63	.61	.66	.63	.61	.65	.62	.60	.64	.62	.60	.59
7.0	.65	.61	.59	.64	.61	.59	.63	.60	.58	.63	.60	.58	.62	.60	.58	.57
8.0	.62	.59	.57	.62	.59	.56	.61	.58	.56	.61	.58	.56	.60	.58	.56	.55
9.0	.60	.57	.55	.60	.57	.55	.59	.56	.54	.59	.56	.54	.58	.56	.54	.53
10.0	.58	.55	.53	.58	.55	.53	.58	.55	.53	.57	.54	.52	.57	.54	.52	.52



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30minutes warm-up

WEC AND CCEC

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SPEC.:3000K	DIM.:	SERIAL No.:2303060232
MFR.: RISE	SUR.:0.003737385m2	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	.111	.063	.020	.106	.061	.019	.097	.056	.018	.088	.051	.016	.080	.047	.015	
2.0	.104	.057	.018	.100	.055	.017	.092	.051	.016	.085	.048	.015	.078	.044	.014	
3.0	.098	.052	.016	.094	.050	.015	.088	.047	.014	.082	.045	.014	.076	.042	.013	
4.0	.092	.048	.014	.089	.047	.014	.083	.044	.013	.078	.042	.013	.073	.040	.012	
5.0	.087	.044	.013	.084	.043	.013	.080	.041	.012	.075	.040	.012	.071	.038	.011	
6.0	.082	.041	.012	.080	.040	.012	.076	.039	.011	.072	.037	.011	.069	.036	.011	
7.0	.078	.039	.011	.076	.038	.011	.073	.037	.011	.069	.036	.010	.066	.034	.010	
8.0	.075	.036	.010	.073	.036	.010	.070	.035	.010	.067	.034	.010	.064	.033	.010	
9.0	.071	.034	.010	.070	.034	.010	.067	.033	.009	.064	.032	.009	.062	.031	.009	
10.0	.068	.033	.009	.067	.032	.009	.064	.032	.009	.062	.031	.009	.060	.030	.009	

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	.144	.144	.144	.123	.123	.123	.084	.084	.084	.048	.048	.048	.015	.015	.015		
1.0	.128	.119	.111	.109	.102	.096	.075	.070	.066	.043	.041	.038	.014	.013	.012		
2.0	.115	.100	.088	.098	.086	.076	.067	.060	.053	.039	.035	.031	.012	.011	.010		
3.0	.104	.086	.071	.089	.074	.062	.061	.051	.043	.035	.030	.026	.011	.010	.008		
4.0	.095	.074	.058	.081	.064	.051	.056	.045	.036	.032	.026	.021	.010	.009	.007		
5.0	.087	.065	.049	.075	.056	.042	.052	.039	.030	.030	.023	.018	.010	.008	.006		
6.0	.081	.058	.041	.069	.050	.036	.048	.035	.025	.028	.021	.015	.009	.007	.005		
7.0	.075	.051	.035	.065	.045	.030	.045	.031	.022	.026	.018	.013	.008	.006	.004		
8.0	.070	.046	.030	.061	.040	.026	.042	.028	.019	.024	.017	.011	.008	.005	.004		
9.0	.066	.042	.026	.057	.037	.023	.039	.026	.016	.023	.015	.010	.007	.005	.003		
10.0	.062	.039	.023	.054	.034	.020	.037	.024	.014	.022	.014	.008	.007	.005	.003		

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UGR(Unified Glare Rating) Table

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SPEC.:3000K					DIM.:			SERIAL No.:2303060232			
MFR.: RISE					SUR.:0.003737385m2			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	13.5	14.2	13.7	14.3	14.5	14.0	14.7	14.2	14.9	15.0	
	3H	13.4	14.1	13.7	14.3	14.5	14.0	14.6	14.2	14.8	15.0
	4H	13.4	14.0	13.6	14.2	14.4	13.9	14.6	14.2	14.8	15.0
	6H	13.3	13.9	13.6	14.2	14.4	13.9	14.5	14.2	14.7	14.9
	8H	13.3	13.9	13.6	14.1	14.4	13.8	14.4	14.1	14.7	14.9
	12H	13.3	13.8	13.6	14.1	14.3	13.8	14.4	14.1	14.6	14.9
4H	2H	13.4	14.0	13.6	14.2	14.4	13.9	14.5	14.2	14.8	15.0
	3H	13.3	13.9	13.6	14.2	14.4	13.9	14.4	14.2	14.7	15.0
	4H	13.3	13.8	13.6	14.1	14.4	13.8	14.3	14.2	14.6	14.9
	6H	13.3	13.7	13.6	14.0	14.4	13.8	14.2	14.2	14.6	14.9
	8H	13.2	13.7	13.6	14.0	14.4	13.7	14.2	14.1	14.5	14.9
	12H	13.2	13.6	13.6	14.0	14.3	13.7	14.1	14.1	14.4	14.8
8H	4H	13.2	13.6	13.6	14.0	14.3	13.7	14.1	14.1	14.5	14.8
	6H	13.2	13.5	13.6	13.9	14.3	13.7	14.0	14.1	14.4	14.8
	8H	13.2	13.5	13.6	13.9	14.3	13.6	13.9	14.1	14.4	14.8
	12H	13.1	13.4	13.6	13.8	14.3	13.6	13.8	14.0	14.3	14.8
12H	4H	13.1	13.5	13.5	13.9	14.3	13.7	14.1	14.1	14.4	14.8
	6H	13.1	13.4	13.6	13.8	14.3	13.6	13.9	14.1	14.4	14.8
	8H	13.1	13.4	13.6	13.8	14.3	13.6	13.9	14.1	14.3	14.8
Variations with the observer position at spacings:											
S = 1.0H	+ 1.9 / - 4.0				+ 2.3 / - 4.1						
1.5H	+ 2.5 / - 2.9				+ 3.0 / - 3.0						
2.0H	+ 3.8 / - 3.7				+ 4.0 / - 4.0						

CIE Pub.117, 1749 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 1.9$)
Area: 0.00373738 m2

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UTILIZATION FACTORS TABLE

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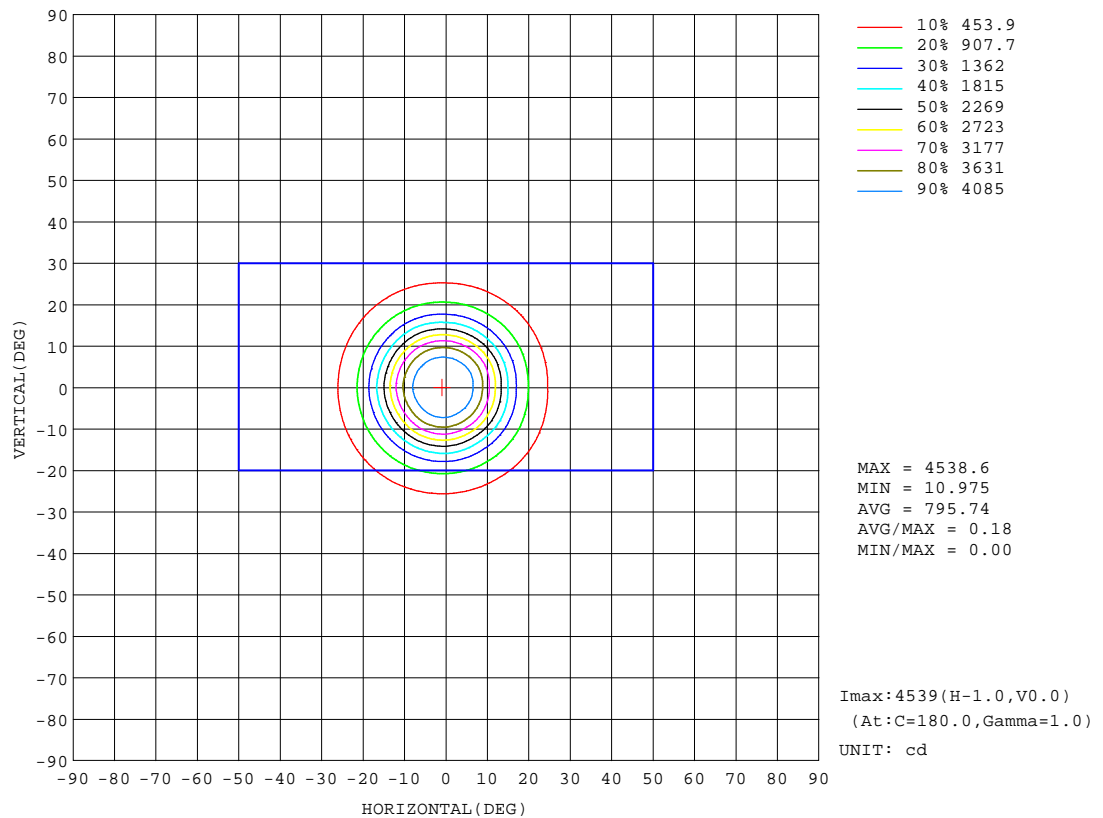
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	67	63	60	67	62	60	66	62	60	57
0.80	73	68	66	72	68	66	71	68	65	63
1.00	76	72	69	75	71	69	74	71	69	66
1.25	79	75	72	78	74	72	76	74	72	68
1.50	81	77	75	80	77	74	78	76	74	70
2.00	82	79	77	81	79	77	79	77	75	72
2.50	84	81	79	82	80	78	80	78	77	72
3.00	85	82	80	83	81	79	81	79	78	73
4.00	86	84	83	85	83	82	82	81	80	74
5.00	87	86	84	86	84	83	83	82	81	75
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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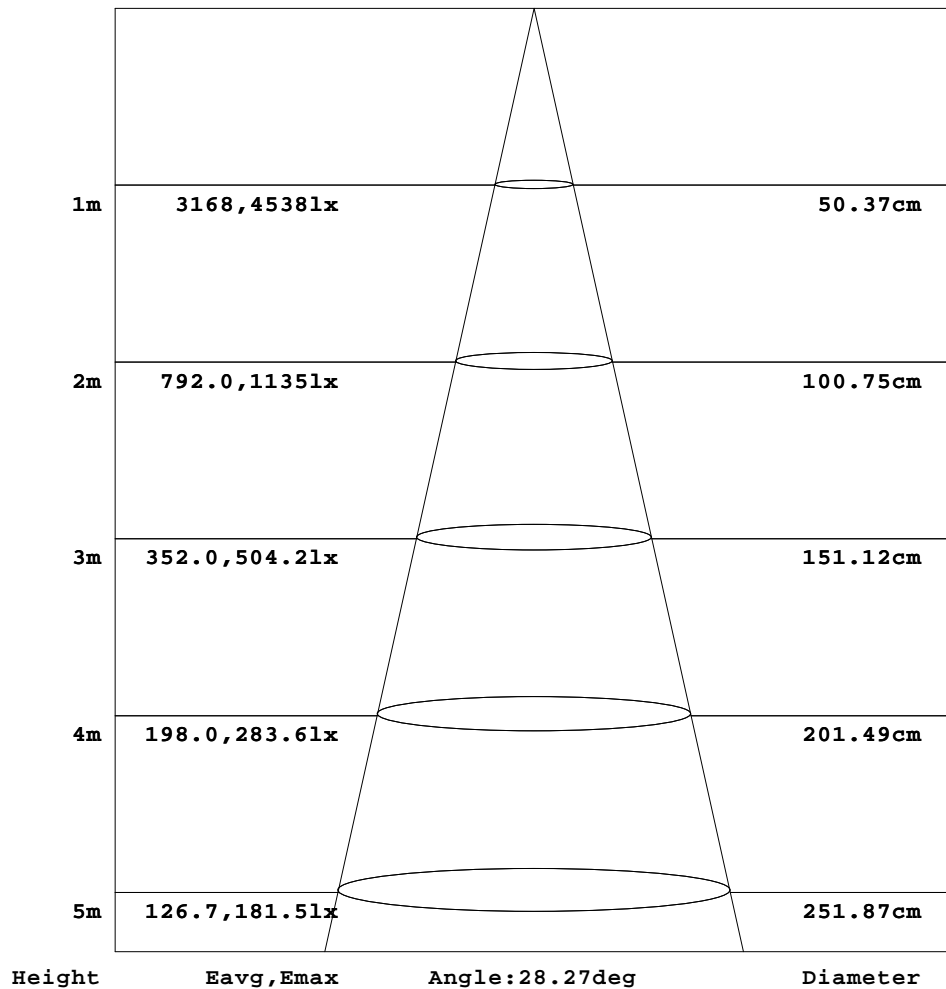
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AAI Figure

Test:U:119.96V I:0.1481A P:17.681W PF:0.9940 Freq:59.98Hz Lamp Flux:1749.31x1 lm		
NAME: 2218.143-LEA-14	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2303060232
MFR.: RISE	SUR.:0.003737385m2	Shielding Angle:

Flux out:714.5 lm



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

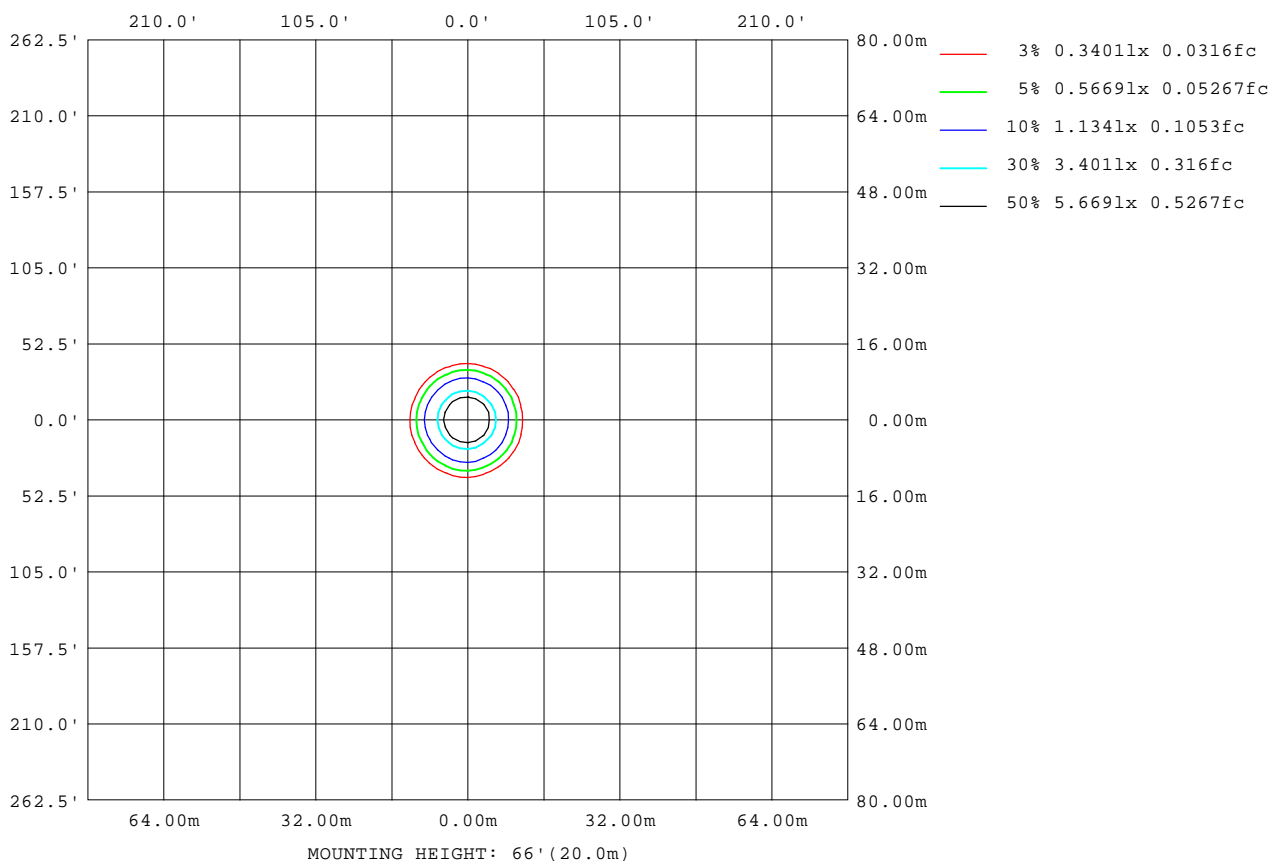
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zoe
Test Date:2023-3-6

γ Range: 0 - 180DEG
γ 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-30G1000-A-83 Ra:90
LENS:PM-1082 15R
DRIVER: PUP20A-1WMC 450mA
30minutes warm-up



ISOLUX DIAGRAM

Test:U:119.96V I:0.1481A P:17.681W PF:0.9940 Freq:59.98Hz Lamp Flux:1749.31x1 lm		
NAME: 2218.143-LEA-14	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2303060232
MFR.: RISE	SUR.:0.003737385m2	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Zoe
Test Date: 2023-3-6

```

γ Range: 0 - 180DEG
γ 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-30G1000-A-83 Ra:90
          LENS:PM-1082 15R
          DRIVER: PUP20A-1WMC 450mA
          30minutes warm-up

```

LED Avg.L Report

Test:U:119.96V I:0.1481A P:17.681W PF:0.9940 Freq:59.98Hz Lamp Flux:1749.31x1 lm		
NAME: 2218.143-LEA-14	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2303060232
MFR.: RISE	SUR.:0.003737385m2	Shielding Angle:

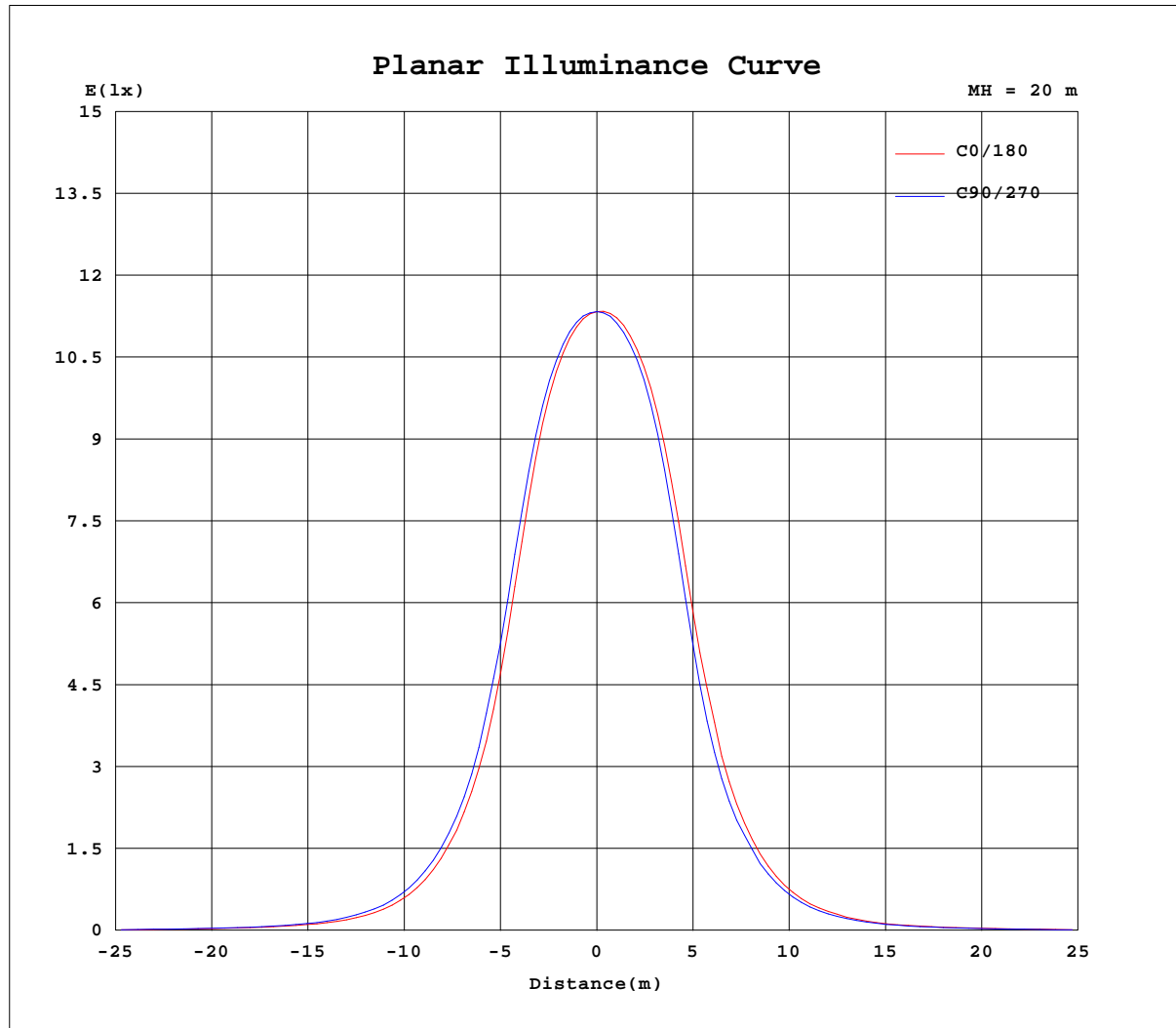
AvgL	cd/m2
L_0~180(65)av	3077
L_0~180(75)av	1674
L_0~180(85)av	1670
L_90~270(65)av	2999
L_90~270(75)av	1581
L_90~270(85)av	230
L_45(65)av	3199
L_45(75)av	1651
L_45(85)av	340

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zoe
Test Date:2023-3-6

γ Range: 0 - 180DEG
 γ 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-30G1000-A-83 Ra:90
LENS:PM-1082 15R
DRIVER: PUP20A-1WMC 450mA
30minutes warm-up

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Zoe
 Test Date: 2023-3-6

γ Range: 0 - 180DEG
 γ 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-30G1000-A-83 Ra: 90
 LENS: PM-1082 15R
 DRIVER: PUP20A-1WMC 450mA
 30minutes warm-up

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.96V I:0.1481A P:17.681W PF:0.9940 Freq:59.98Hz Lamp Flux:1749.31x1 lm		
NAME: 2218.143-LEA-14	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2303060232
MFR.: RISE	SUR.:0.003737385m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	4535	4535	4535	4535	4535	4535	4535	4535	4535	4535	4535	4535						
5	4281	4294	4309	4346	4370	4380	4407	4394	4380	4343	4318	4310						
10	3319	3348	3404	3524	3610	3642	3724	3688	3640	3535	3456	3421						
15	1801	1882	1899	2054	2115	2185	2260	2211	2166	1999	1939	1889						
20	887	928	948	1010	1058	1083	1118	1086	1048	974	945	931						
25	423	452	460	496	520	526	535	520	504	468	454	444						
30	203	223	225	244	254	253	254	246	240	223	222	211						
35	105	114	117	126	130	129	127	124	121	114	113	109						
40	62.9	66.9	69.1	72.6	75.6	72.8	71.3	70.3	68.7	66.0	65.8	64.3						
45	42.1	44.3	45.8	47.3	48.3	47.1	46.3	45.4	44.7	42.6	42.7	42.7						
50	25.7	27.9	29.2	30.6	31.4	30.6	29.5	28.1	27.0	25.3	25.5	25.9						
55	13.4	15.1	16.2	14.1	17.9	17.3	16.4	15.2	14.1	12.8	12.9	13.4						
60	6.92	7.64	8.08	7.39	8.92	8.27	7.82	7.47	7.05	6.86	6.82	6.91						
65	4.36	5.13	5.52	5.26	5.73	5.74	5.36	4.93	4.55	4.22	4.25	4.36						
70	2.13	2.37	2.55	2.58	2.84	2.68	2.55	2.34	2.14	1.99	1.96	2.06						
75	1.58	1.64	1.70	1.62	1.66	1.66	1.66	1.58	1.52	1.44	1.45	1.54						
80	1.04	1.11	0.99	0.91	0.78	0.90	1.19	1.04	0.78	0.63	0.65	0.90						
85	0.46	0.29	0.08	0.10	0.04	0.19	0.63	0.28	0.04	0.05	0.03	0.11						
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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