

Luminaire Photograph



Light Output Ratio:	68.2%	
Luminaire Power:	17.79 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: 25.3DEG
Operators: Zoe
Test Date: 2023-03-15

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-1082B 36R
DRIVER: PUP20A-1WMC 450mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

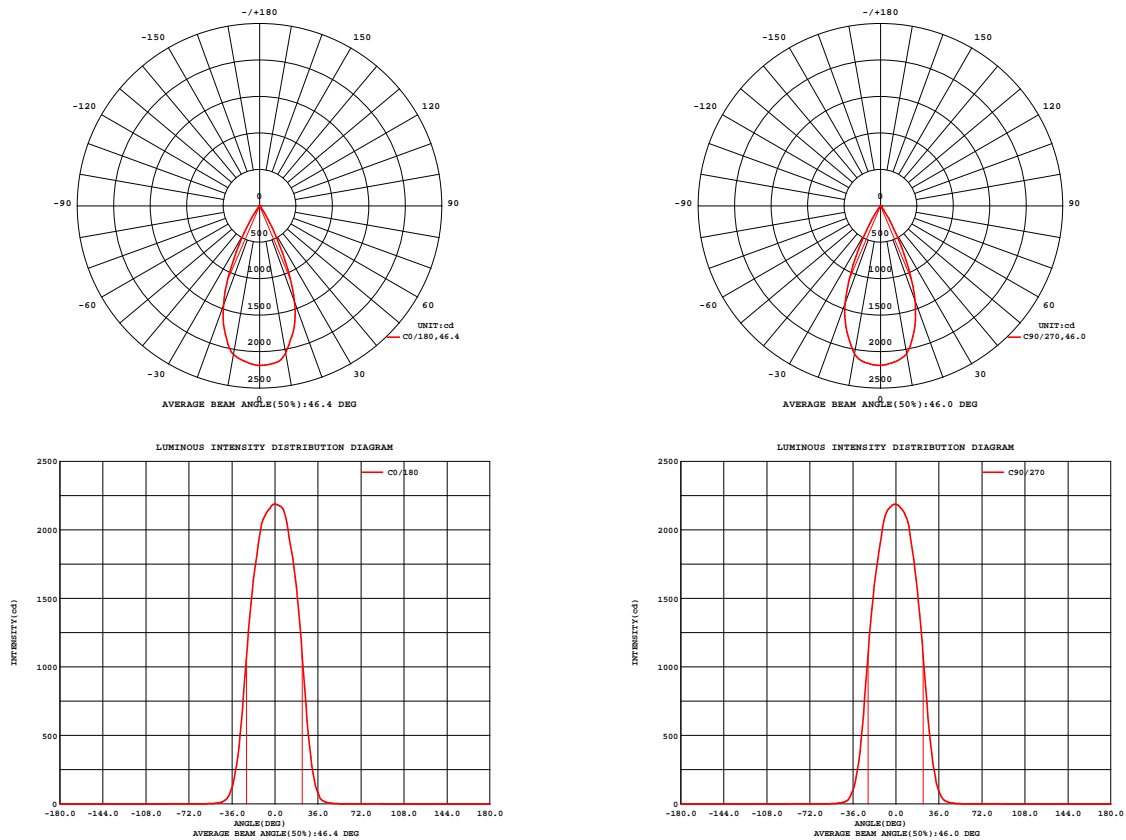


Fig. C0/C180

Fig. C90/C270

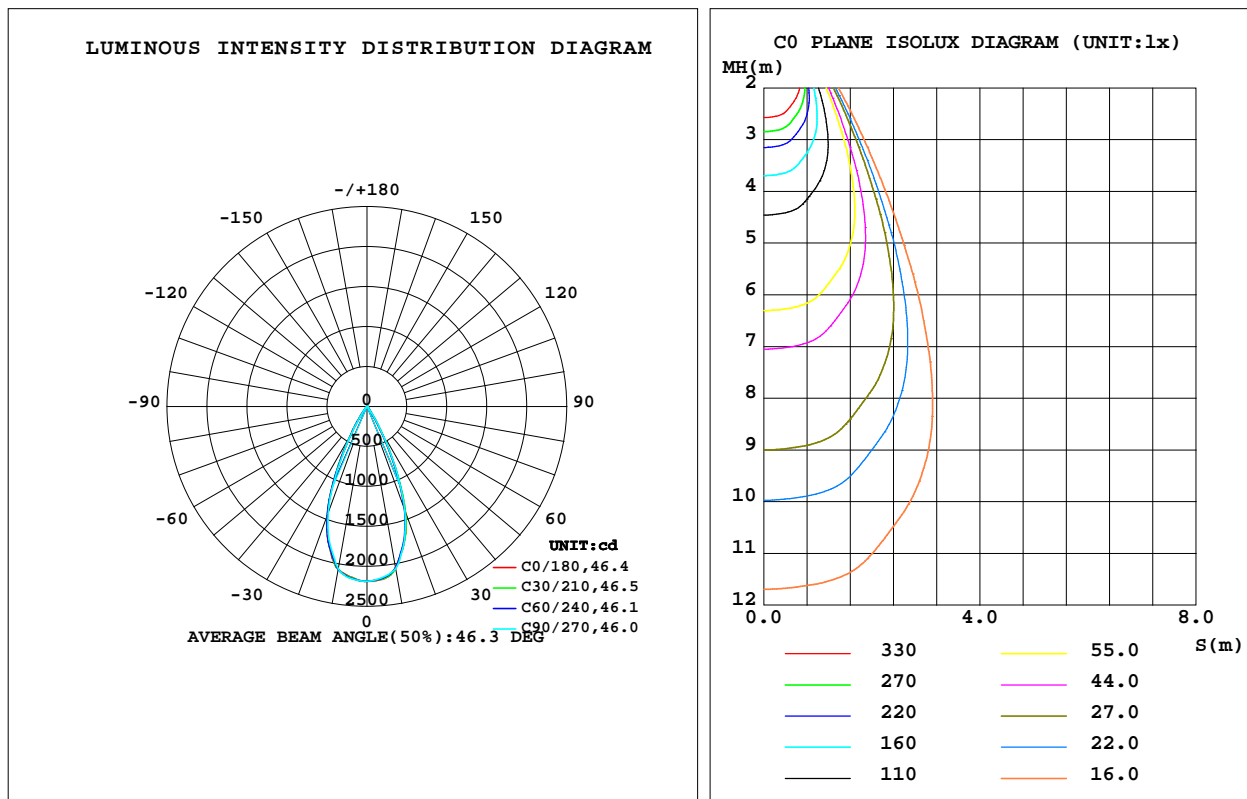
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30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.89V I:0.1491A P:17.788W PF:0.9941 Freq:59.98Hz Lamp Flux:1749.3x1 lm		
NAME: 2218.217F-LEA-14	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2303150276
MFR.: RISE	SUR.:0.003737385m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 67.07 lm/W			
MODEL	Bridgelux	I _{max} (cd)	2187	S/MH(C0/180)	0.71
NOMINAL POWER(W)	18	LOR(%)	68.2	S/MH(C90/270)	0.70
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1193.0	η UP,DN(C0-180)	0.0,33.4
NOMINAL FLUX(lm)	1749.3	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,34.8
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	120	η down(%)	68.2	CIBSE SHR MAX	0.70



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γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.416
Humidity:65.0%
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30minutes warm-up

ZONAL FLUX DIAGRAM

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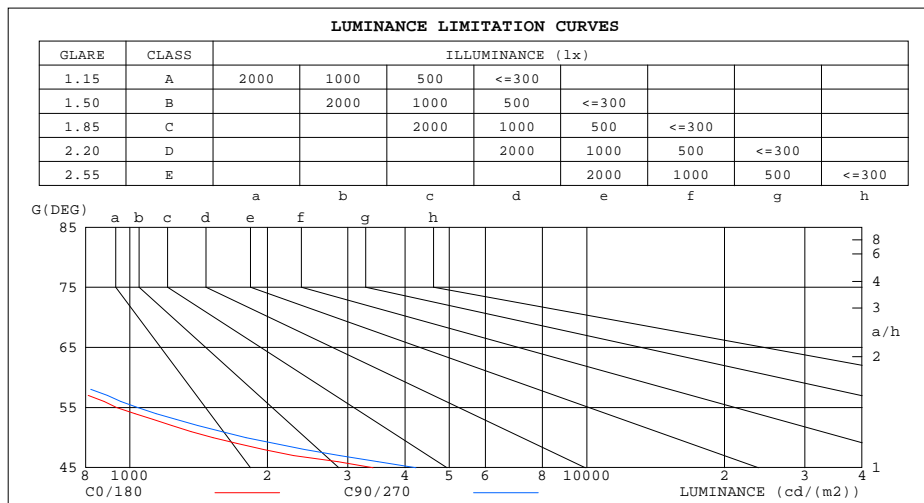
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	2050	2057	2061	2052	2071	2072	2063	2067	0- 10	203.3	203.3	17,11.6
20	1406	1390	1386	1379	1462	1455	1425	1435	10- 20	493.7	697.0	58.4,39.8
30	342.7	348.8	367.6	366.6	423.3	411.0	381.8	376.0	20- 30	391.9	1089	91.3,62.2
40	23.75	26.26	32.06	34.67	41.29	37.63	29.94	27.29	30- 40	91.16	1180	98.9,67.5
50	3.652	3.766	4.315	4.755	5.181	4.636	4.102	3.877	40- 50	9.802	1190	99.7,68
60	1.040	1.027	1.209	1.394	1.540	1.365	1.272	1.207	50- 60	2.168	1192	99.9,68.1
70	0.3275	0.2945	0.3617	0.4261	0.4526	0.3814	0.3950	0.3977	60- 70	0.7121	1193	100,68.2
80	0.1024	0.0858	0.1178	0.1319	0.1519	0.1178	0.1280	0.1213	70- 80	0.2364	1193	100,68.2
90	0	0	0	0	0	0	0	0	80- 90	0.0598	1193	100,68.2
100	0	0	0	0	0	0	0	0	90-100	0	1193	100,68.2
110	0	0	0	0	0	0	0	0	100-110	0	1193	100,68.2
120	0	0	0	0	0	0	0	0	110-120	0	1193	100,68.2
130	0	0	0	0	0	0	0	0	120-130	0	1193	100,68.2
140	0	0	0	0	0	0	0	0	130-140	0	1193	100,68.2
150	0	0	0	0	0	0	0	0	140-150	0	1193	100,68.2
160	0	0	0	0	0	0	0	0	150-160	0	1193	100,68.2
170	0	0	0	0	0	0	0	0	160-170	0	1193	100,68.2
180	0	0	0	0	0	0	0	0	170-180	0	1193	100,68.2
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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Temperature:25.3DEG
Operators:Zoe
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Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.416
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
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LENS:PM-1082B 36R
DRIVER: PUP20A-1WMC 450mA
30minutes warm-up

LUMINANCE LIMITATION CURVES

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NAME: 2218.217F-LEA-14	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2303150276
MFR.: RISE	SUR.:0.003737385m2	Shielding Angle:



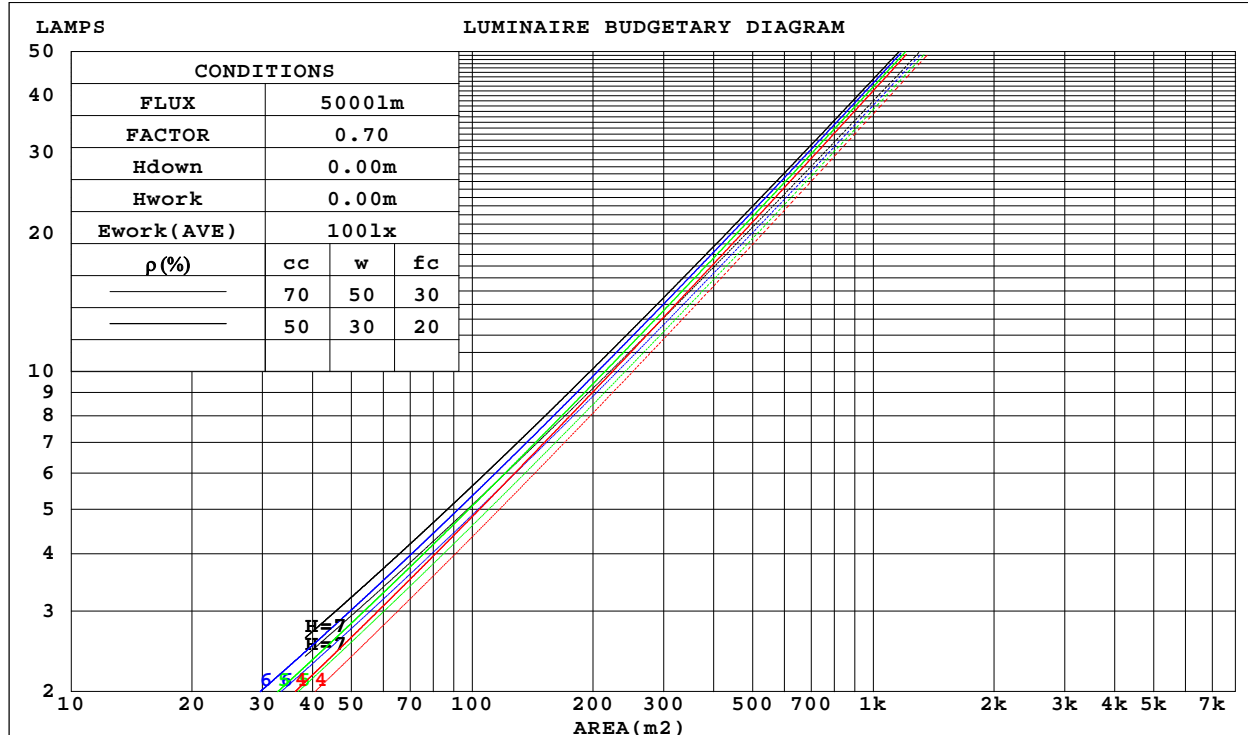
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.:3000K	DIM.:	SERIAL No.:2303150276
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	.81	.81	.81	.79	.79	.79	.76	.76	.76	.73	.73	.73	.70	.70	.70	.68
1.0	.76	.75	.74	.75	.74	.72	.72	.71	.70	.70	.69	.68	.67	.67	.66	.65
2.0	.72	.70	.68	.71	.69	.67	.69	.67	.65	.67	.65	.64	.65	.64	.63	.62
3.0	.68	.65	.63	.67	.65	.63	.66	.63	.62	.64	.62	.61	.62	.61	.60	.59
4.0	.65	.62	.59	.64	.61	.59	.63	.60	.58	.61	.59	.57	.60	.58	.57	.56
5.0	.62	.58	.56	.61	.58	.55	.60	.57	.55	.59	.56	.55	.58	.56	.54	.53
6.0	.59	.55	.53	.58	.55	.53	.57	.54	.52	.56	.54	.52	.55	.53	.52	.51
7.0	.56	.53	.50	.56	.52	.50	.55	.52	.50	.54	.51	.49	.53	.51	.49	.48
8.0	.53	.50	.48	.53	.50	.48	.52	.50	.47	.52	.49	.47	.51	.49	.47	.46
9.0	.51	.48	.46	.51	.48	.45	.50	.47	.45	.50	.47	.45	.49	.47	.45	.44
10.0	.49	.46	.44	.49	.46	.43	.48	.45	.43	.48	.45	.43	.47	.45	.43	.42



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30minutes warm-up

WEC AND CCEC

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NAME: 2218.217F-LEA-14	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2303150276
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	.106	.060	.019	.101	.058	.018	.093	.053	.017	.085	.049	.016	.078	.045	.015	
2.0	.100	.055	.017	.096	.053	.016	.089	.049	.015	.082	.046	.014	.076	.043	.014	
3.0	.094	.050	.015	.091	.049	.015	.085	.046	.014	.079	.044	.013	.074	.041	.013	
4.0	.089	.046	.014	.087	.045	.013	.081	.043	.013	.077	.041	.012	.072	.039	.012	
5.0	.085	.043	.013	.083	.042	.012	.078	.041	.012	.074	.039	.012	.070	.038	.011	
6.0	.081	.041	.012	.079	.040	.011	.075	.039	.011	.072	.037	.011	.068	.036	.011	
7.0	.077	.038	.011	.076	.038	.011	.072	.037	.011	.069	.035	.010	.066	.034	.010	
8.0	.074	.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	.065	.032	.009	.062	.032	.009	
10.0	.069	.033	.009	.067	.033	.009	.065	.032	.009	.063	.031	.009	.061	.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	.130	.130	.130	.111	.111	.111	.076	.076	.076	.044	.044	.044	.014	.014	.014	
1.0	.116	.107	.100	.099	.092	.086	.068	.063	.060	.039	.037	.035	.012	.012	.011	
2.0	.104	.090	.079	.089	.078	.068	.061	.054	.048	.035	.031	.028	.011	.010	.009	
3.0	.095	.077	.063	.081	.067	.055	.056	.046	.039	.032	.027	.023	.010	.009	.007	
4.0	.087	.067	.052	.075	.058	.045	.051	.040	.032	.030	.024	.019	.010	.008	.006	
5.0	.081	.059	.043	.069	.051	.037	.048	.036	.026	.028	.021	.016	.009	.007	.005	
6.0	.075	.052	.036	.065	.045	.031	.045	.032	.022	.026	.019	.013	.008	.006	.004	
7.0	.070	.047	.031	.061	.041	.027	.042	.029	.019	.024	.017	.011	.008	.006	.004	
8.0	.066	.043	.026	.057	.037	.023	.040	.026	.016	.023	.015	.010	.007	.005	.003	
9.0	.063	.039	.023	.054	.034	.020	.037	.024	.014	.022	.014	.008	.007	.005	.003	
10.0	.060	.036	.020	.051	.031	.017	.036	.022	.012	.021	.013	.007	.007	.004	.002	

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UGR(Unified Glare Rating) Table

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SPEC.:3000K						DIM.:		SERIAL No.:2303150276			
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	12.2	13.0	12.4	13.2	13.3	12.7	13.5	12.9	13.7	13.8	
	3H	12.1	12.8	12.3	13.0	13.2	12.6	13.3	12.8	13.5	13.7
	4H	12.0	12.7	12.2	12.9	13.1	12.5	13.2	12.7	13.4	13.6
	6H	11.9	12.5	12.2	12.8	13.0	12.4	13.0	12.7	13.3	13.5
	8H	11.9	12.5	12.2	12.7	13.0	12.4	13.0	12.7	13.2	13.5
	12H	11.8	12.4	12.1	12.7	12.9	12.3	12.9	12.6	13.2	13.4
4H	2H	12.0	12.7	12.2	12.9	13.1	12.5	13.2	12.7	13.4	13.6
	3H	11.8	12.4	12.1	12.7	12.9	12.3	12.9	12.6	13.2	13.4
	4H	11.7	12.3	12.1	12.6	12.9	12.2	12.8	12.6	13.1	13.4
	6H	11.6	12.1	12.0	12.4	12.8	12.1	12.6	12.5	12.9	13.3
	8H	11.6	12.0	12.0	12.4	12.7	12.1	12.5	12.5	12.9	13.2
	12H	11.5	11.9	11.9	12.3	12.7	12.0	12.4	12.4	12.8	13.2
8H	4H	11.6	12.0	12.0	12.4	12.7	12.1	12.5	12.5	12.9	13.2
	6H	11.5	11.8	11.9	12.2	12.6	12.0	12.3	12.4	12.7	13.1
	8H	11.4	11.7	11.8	12.1	12.6	11.9	12.2	12.3	12.6	13.1
	12H	11.3	11.6	11.8	12.1	12.5	11.8	12.1	12.3	12.6	13.0
12H	4H	11.5	11.9	11.9	12.3	12.7	12.0	12.4	12.4	12.8	13.2
	6H	11.4	11.7	11.8	12.1	12.6	11.9	12.2	12.3	12.6	13.1
	8H	11.3	11.6	11.8	12.1	12.5	11.8	12.1	12.3	12.6	13.0
Variations with the observer position at spacings:											
S = 1.0H	+ 4.9 / -12.1					+ 4.9 / -12.7					
1.5H	+ 7.4 / - 9.9					+ 7.4 / -10.9					
2.0H	+ 5.9 / - 5.9					+ 6.6 / - 6.4					

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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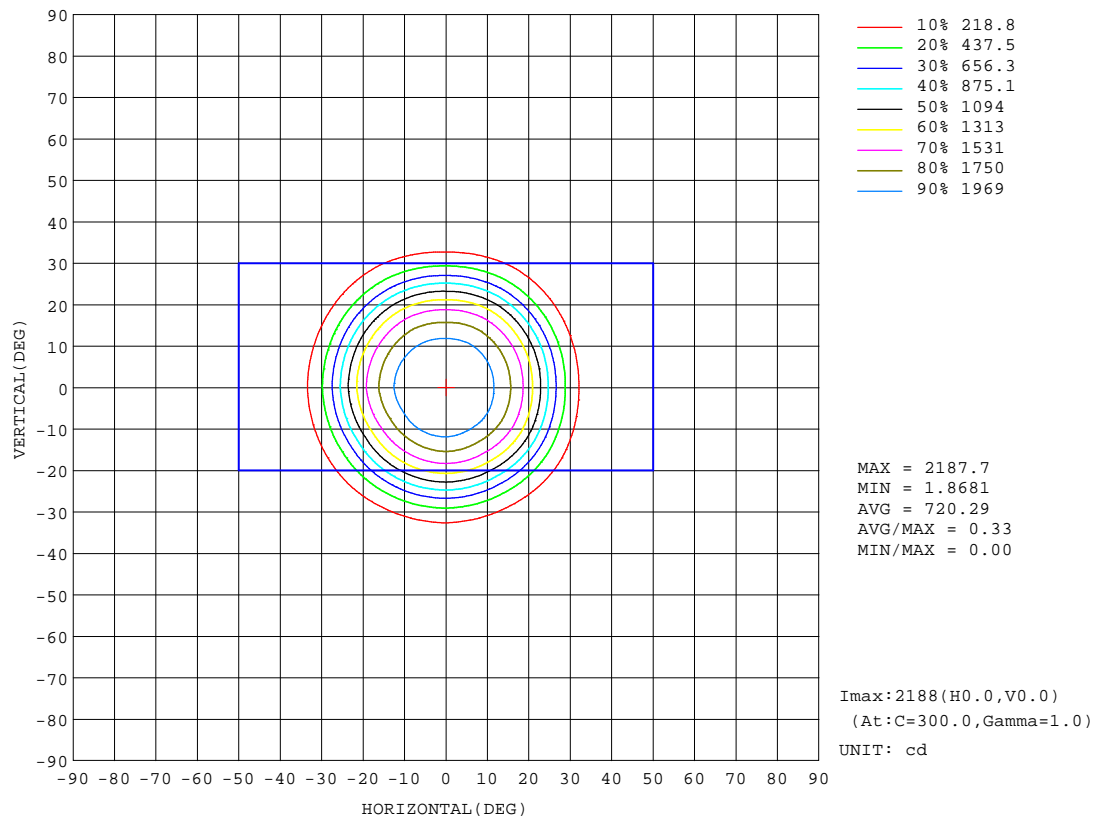
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	62	58	56	62	58	56	61	58	56	53
0.80	67	63	61	66	63	61	66	63	61	58
1.00	69	66	64	69	66	64	68	65	63	61
1.25	72	69	66	71	68	66	70	67	66	63
1.50	73	71	68	73	70	68	71	69	67	65
2.00	75	72	70	74	72	70	72	70	69	65
2.50	76	74	72	75	73	71	73	71	70	66
3.00	77	75	73	76	74	72	73	72	71	67
4.00	78	76	75	77	75	74	74	73	72	68
5.00	79	78	76	77	76	75	75	74	73	68
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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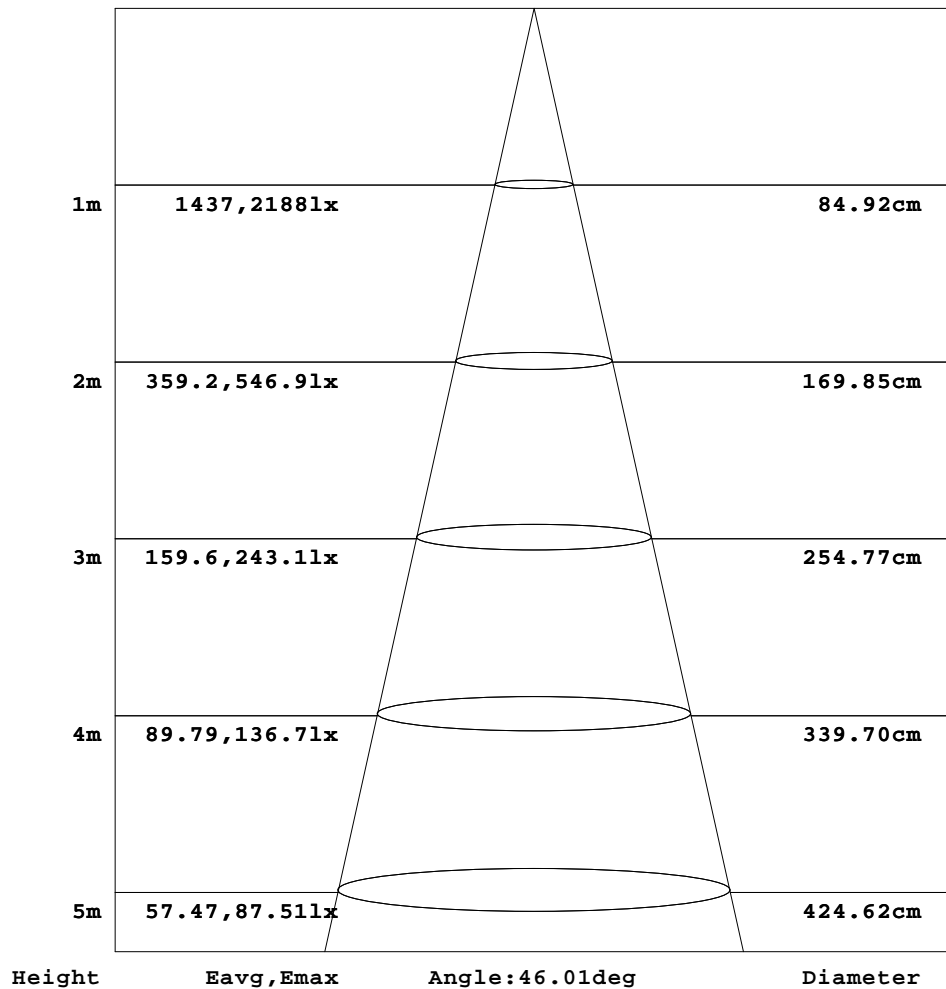
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AAI Figure

Test:U:119.89V I:0.1491A P:17.788W PF:0.9941 Freq:59.98Hz Lamp Flux:1749.3x1 lm		
NAME: 2218.217F-LEA-14	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2303150276
MFR.: RISE	SUR.:0.003737385m2	Shielding Angle:

Flux out:894.7 lm



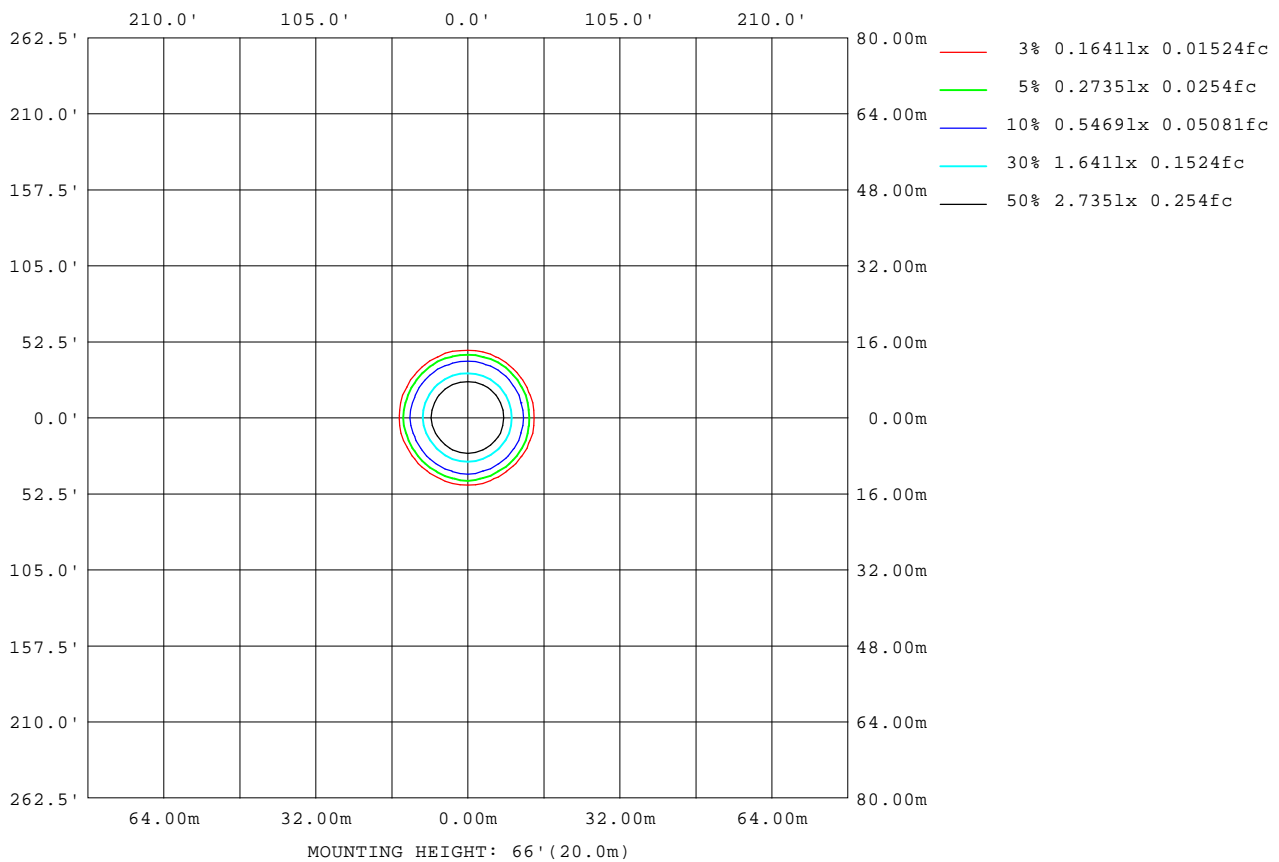
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Zoe
Test Date: 2023-03-15

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-1082B 36R
DRIVER: PUP20A-1WMC 450mA
30minutes warm-up

ISOLUX DIAGRAM

Test:U:119.89V I:0.1491A P:17.788W PF:0.9941 Freq:59.98Hz Lamp Flux:1749.3x1 lm		
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SPEC.:3000K	DIM.:	SERIAL No.:2303150276
MFR.: RISE	SUR.:0.003737385m2	Shielding Angle:



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γ Range: 0 - 180DEG
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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-1082B 36R
DRIVER: PUP20A-1WMC 450mA
30minutes warm-up

LED Avg.L Report

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NAME: 2218.217F-LEA-14	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2303150276
MFR.: RISE	SUR.:0.003737385m2	Shielding Angle:

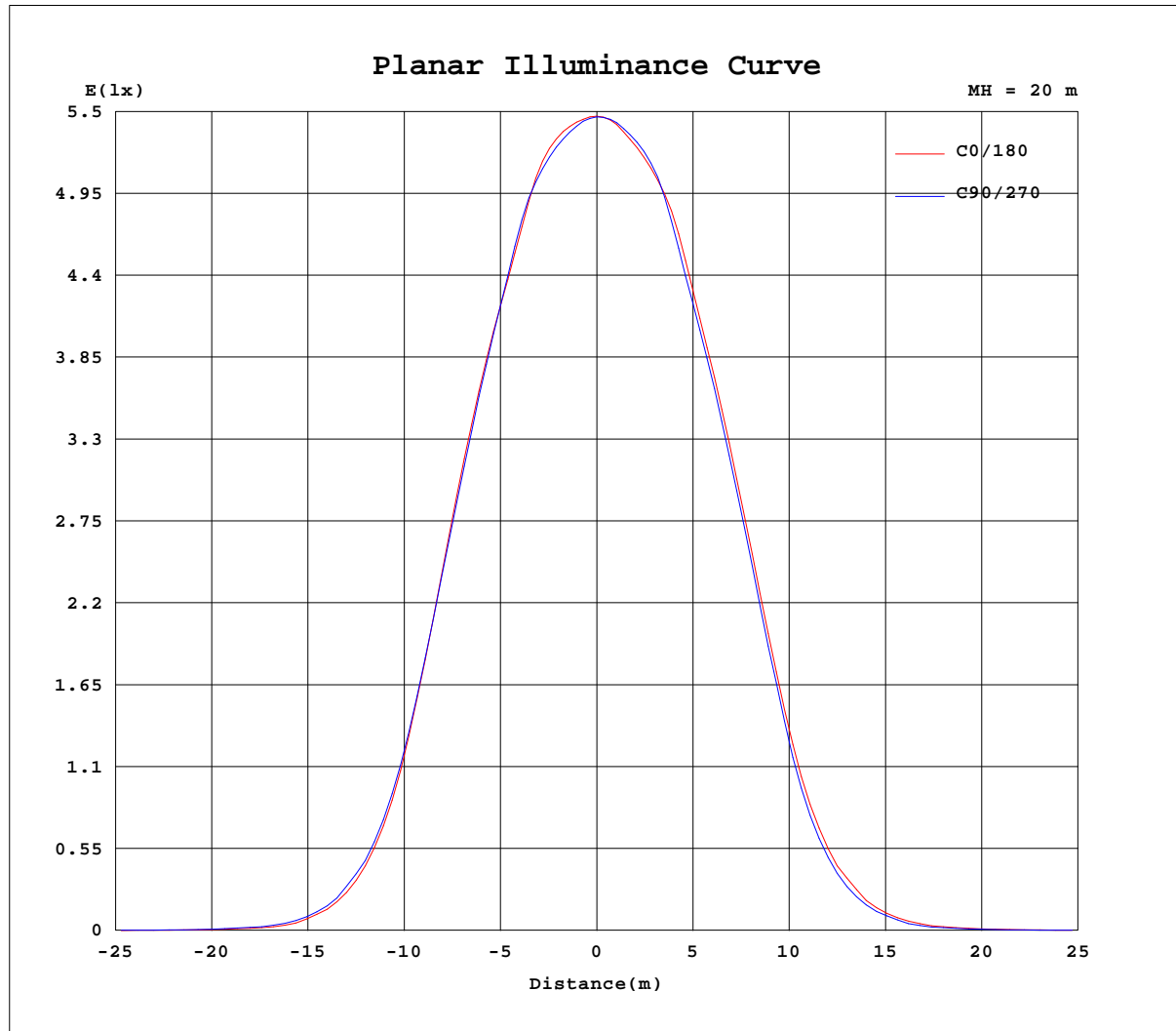
AvgL	cd/m2
L_0~180(65)av	445
L_0~180(75)av	230
L_0~180(85)av	210
L_90~270(65)av	428
L_90~270(75)av	223
L_90~270(85)av	171
L_45(65)av	428
L_45(75)av	215
L_45(85)av	150

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zoe
Test Date:2023-03-15

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-1082B 36R
DRIVER: PUP20A-1WMC 450mA
30minutes warm-up

Planar Illuminance Curve



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 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Zoe
 Test Date: 2023-03-15

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-1082B 36R
 DRIVER: PUP20A-1WMC 450mA
 30minutes warm-up



LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.89V I:0.1491A P:17.788W PF:0.9941 Freq:59.98Hz Lamp Flux:1749.3x1 lm		
NAME: 2218.217F-LEA-14	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2303150276
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	2186	2186	2186	2186	2186	2186	2186	2186	2186	2186	2186	2186						
5	2170	2165	2157	2151	2142	2139	2148	2152	2159	2162	2170	2172						
10	2050	2060	2054	2061	2055	2049	2071	2071	2073	2063	2071	2064						
15	1786	1787	1764	1779	1770	1777	1824	1812	1814	1790	1806	1796						
20	1406	1411	1369	1386	1376	1382	1462	1455	1455	1425	1444	1426						
25	838	844	820	847	841	845	933	925	919	894	899	867						
30	343	354	343	368	360	373	423	414	408	382	389	363						
35	104	110	110	122	120	127	147	144	139	125	126	114						
40	23.8	25.4	27.1	32.1	33.3	36.0	41.3	39.0	36.2	29.9	28.8	25.7						
45	9.00	9.23	9.78	11.2	12.0	12.3	13.3	12.7	11.7	10.3	10.0	9.22						
50	3.65	3.72	3.81	4.31	4.59	4.92	5.18	4.85	4.42	4.10	3.96	3.79						
55	2.00	1.99	1.97	2.23	2.40	2.54	2.74	2.51	2.34	2.26	2.16	2.10						
60	1.04	1.01	1.04	1.21	1.34	1.45	1.54	1.42	1.31	1.27	1.27	1.15						
65	0.59	0.54	0.56	0.65	0.73	0.79	0.82	0.74	0.68	0.70	0.71	0.66						
70	0.33	0.29	0.30	0.36	0.41	0.44	0.45	0.40	0.37	0.40	0.41	0.38						
75	0.18	0.16	0.16	0.21	0.23	0.25	0.26	0.22	0.20	0.23	0.24	0.21						
80	0.10	0.08	0.09	0.12	0.13	0.14	0.15	0.12	0.11	0.13	0.13	0.12						
85	0.05	0.04	0.04	0.06	0.06	0.06	0.09	0.06	0.05	0.05	0.04	0.05						
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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