

Luminaire Photograph



Light Output Ratio:	54.3%	
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:2023-3-13

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

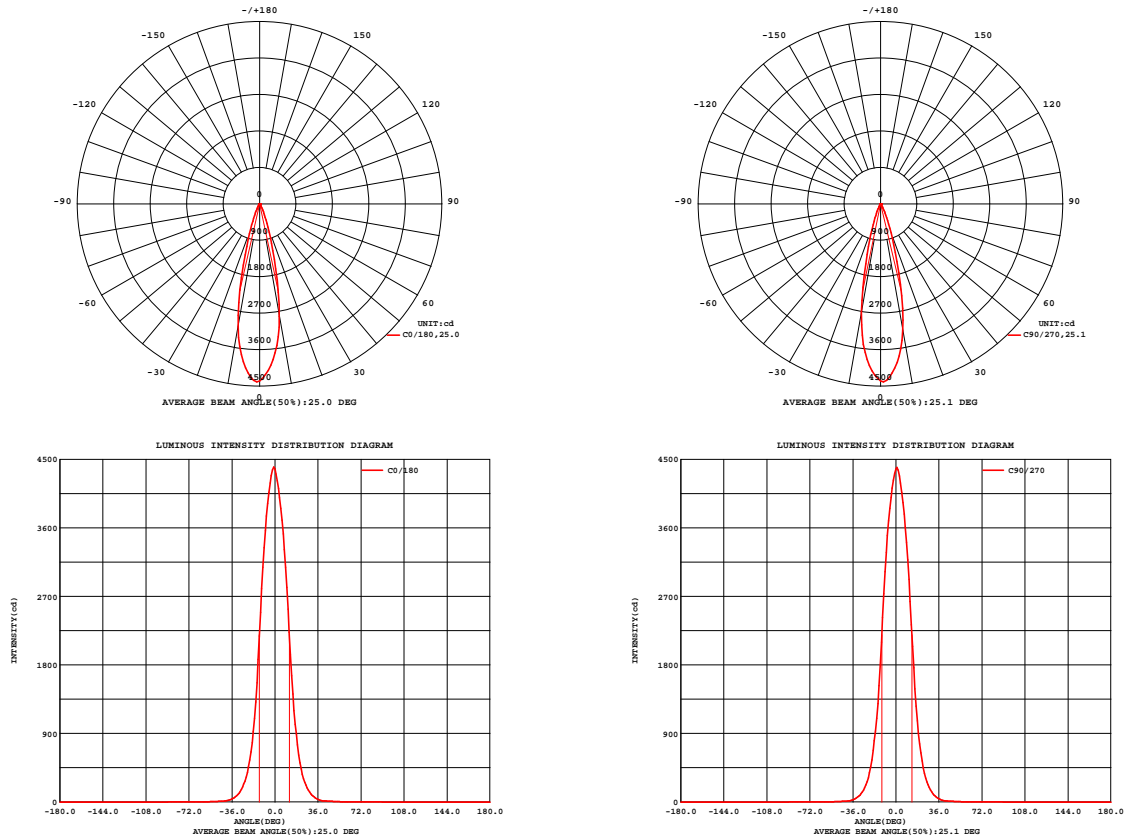


Fig. C0/C180

Fig. C90/C270

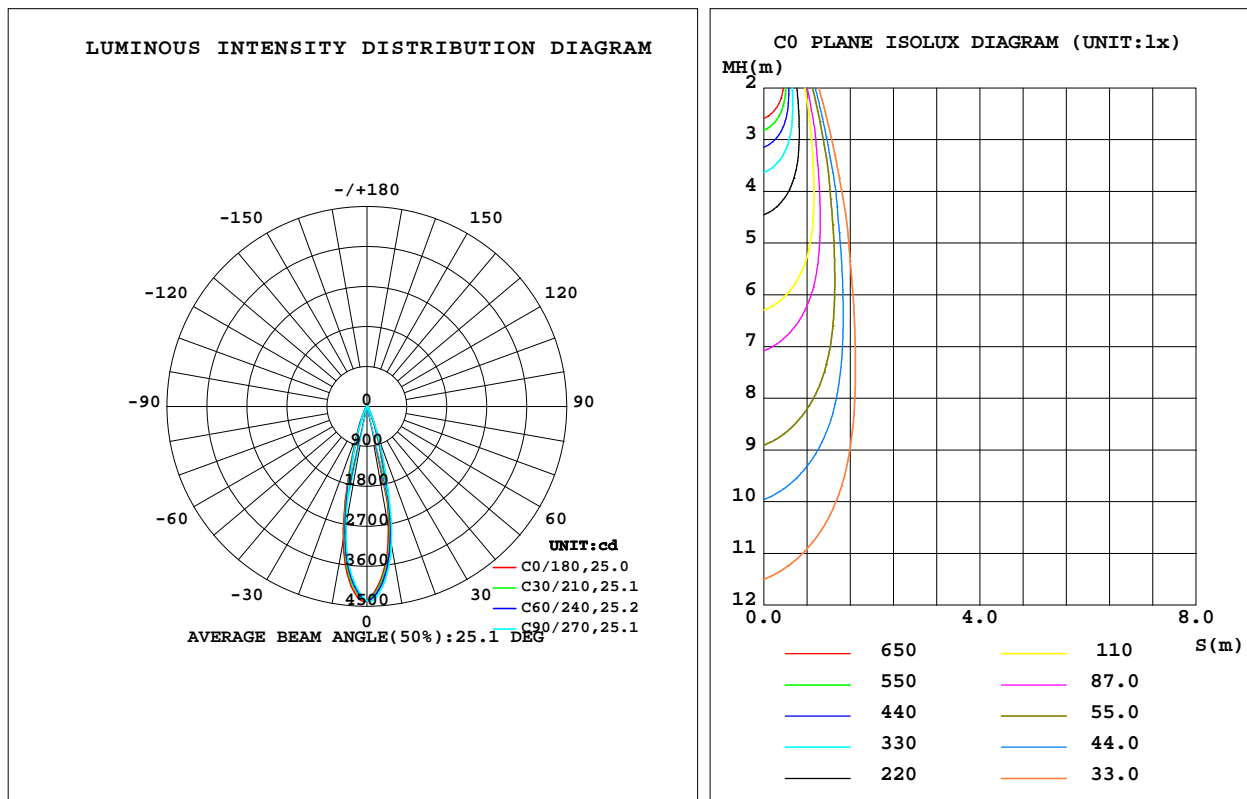
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LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.00V I:0.1481A P:17.681W PF:0.9941 Freq:59.98Hz Lamp Flux:1749.31x1 lm					
NAME: 2218.144-LEA-14			TYPE:		WEIGHT:
SPEC.:3000K			DIM.:		SERIAL No.:2303130264
MFR.: RISE			SUR.:0.003737385m2		Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 53.73 lm/W
MODEL	Bridgelux	I _{max} (cd)	4421	S/MH(C0/180)	0.42	
NOMINAL POWER(W)	18	LOR(%)	54.3	S/MH(C90/270)	0.39	
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	949.91	η UP,DN(C0-180)	0.0,28.6	
NOMINAL FLUX(lm)	1749.31	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,25.7	
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.00	
TEST VOLTAGE(V)	120	η down(%)	54.3	CIBSE SHR MAX	1.00	



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ZONAL FLUX DIAGRAM

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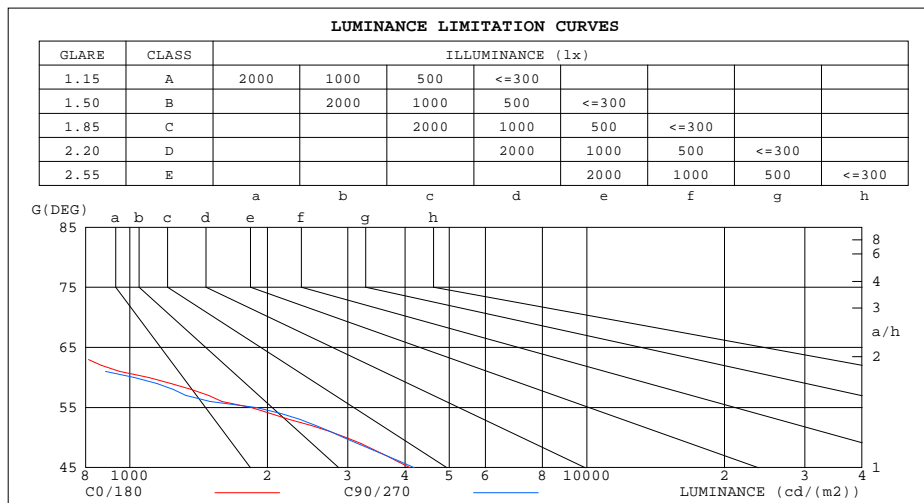
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	2816	3009	3177	3154	3084	2898	2731	2745	0- 10	346.4	346.4	36.5,19.8
20	616.0	720.4	763.7	722.6	657.8	599.8	553.5	582.4	10- 20	424.0	770.4	81.1,44
30	109.1	125.3	132.5	126.9	116.1	103.0	91.86	100.4	20- 30	135.3	905.7	95.3,51.8
40	16.17	18.26	20.44	19.33	18.73	15.73	13.37	14.89	30- 40	31.31	937.0	98.6,53.6
50	7.166	7.108	7.069	6.732	6.764	6.305	5.111	6.273	40- 50	8.185	945.2	99.5,54
60	2.059	2.120	1.914	1.962	1.950	1.593	1.339	1.614	50- 60	3.393	948.6	99.9,54.2
70	0.6611	0.5969	0.4126	0.4958	0.5337	0.4556	0.3880	0.4960	60- 70	0.9602	949.5	100,54.3
80	0.2045	0.1664	0.1214	0.1344	0.1627	0.1301	0.1153	0.1433	70- 80	0.3099	949.8	100,54.3
90	0	0	0	0	0	0	0	0	80- 90	0.0746	949.9	100,54.3
100	0	0	0	0	0	0	0	0	90-100	0	949.9	100,54.3
110	0	0	0	0	0	0	0	0	100-110	0	949.9	100,54.3
120	0	0	0	0	0	0	0	0	110-120	0	949.9	100,54.3
130	0	0	0	0	0	0	0	0	120-130	0	949.9	100,54.3
140	0	0	0	0	0	0	0	0	130-140	0	949.9	100,54.3
150	0	0	0	0	0	0	0	0	140-150	0	949.9	100,54.3
160	0	0	0	0	0	0	0	0	150-160	0	949.9	100,54.3
170	0	0	0	0	0	0	0	0	160-170	0	949.9	100,54.3
180	0	0	0	0	0	0	0	0	170-180	0	949.9	100,54.3
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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LUMINANCE LIMITATION CURVES

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NAME: 2218.144-LEA-14	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2303130264
MFR.: RISE	SUR.:0.003737385m2	Shielding Angle:



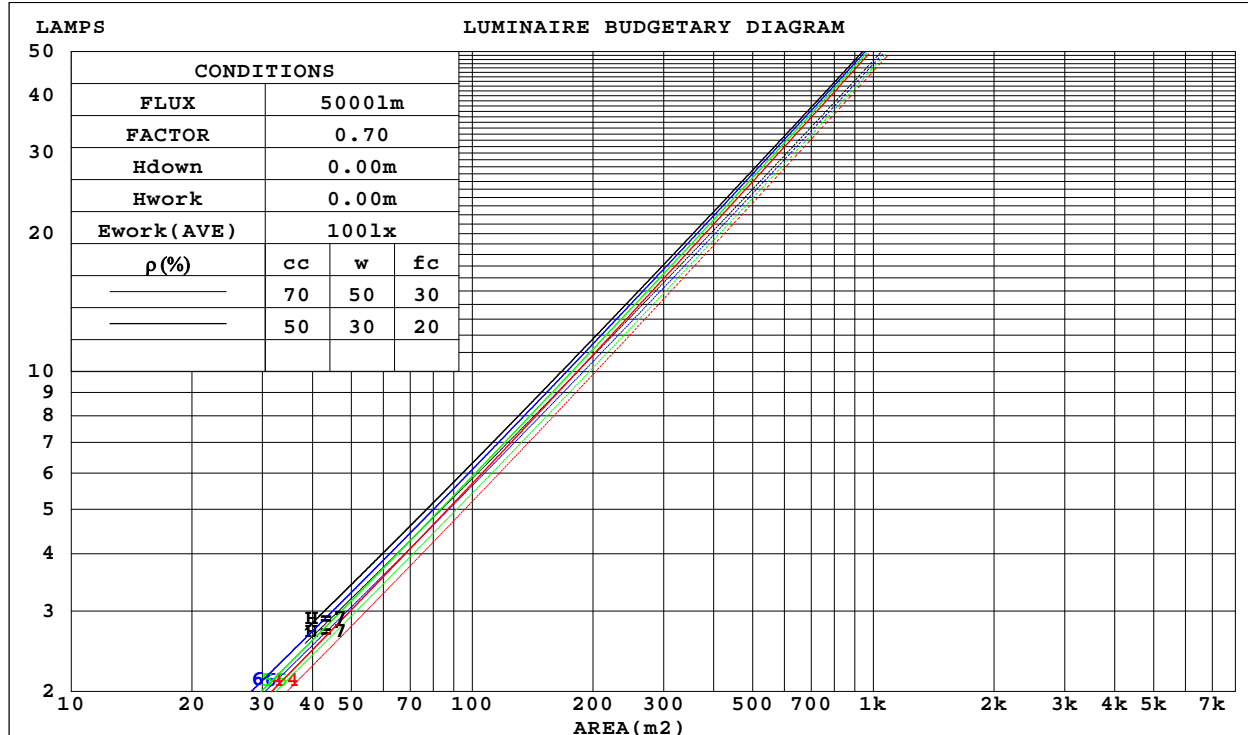
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.:3000K	DIM.:	SERIAL No.:2303130264
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	.65	.65	.65	.63	.63	.63	.60	.60	.60	.58	.58	.58	.55	.55	.55	.54
1.0	.61	.60	.59	.60	.59	.58	.58	.57	.57	.56	.56	.55	.54	.54	.53	.53
2.0	.59	.57	.56	.58	.56	.55	.56	.55	.54	.54	.53	.53	.53	.52	.52	.51
3.0	.56	.54	.53	.55	.54	.52	.54	.53	.51	.53	.52	.51	.52	.51	.50	.49
4.0	.54	.52	.50	.53	.51	.50	.52	.51	.49	.51	.50	.49	.50	.49	.48	.48
5.0	.52	.50	.48	.52	.49	.48	.51	.49	.48	.50	.48	.47	.49	.48	.47	.46
6.0	.50	.48	.46	.50	.48	.46	.49	.47	.46	.48	.47	.46	.48	.46	.45	.45
7.0	.49	.46	.45	.48	.46	.45	.48	.46	.45	.47	.46	.44	.47	.45	.44	.44
8.0	.47	.45	.43	.47	.45	.43	.46	.45	.43	.46	.44	.43	.46	.44	.43	.42
9.0	.46	.44	.42	.46	.44	.42	.45	.43	.42	.45	.43	.42	.44	.43	.42	.41
10.0	.45	.42	.41	.44	.42	.41	.44	.42	.41	.44	.42	.41	.43	.42	.41	.40



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30minutes warm-up

WEC AND CCEC

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SPEC.:3000K	DIM.:	SERIAL No.:2303130264
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	.074	.042	.013	.070	.040	.013	.063	.036	.012	.057	.033	.011	.051	.030	.010	
2.0	.068	.037	.011	.065	.036	.011	.060	.033	.010	.055	.031	.010	.050	.028	.009	
3.0	.063	.034	.010	.061	.033	.010	.056	.031	.009	.052	.029	.009	.048	.027	.008	
4.0	.059	.031	.009	.057	.030	.009	.053	.028	.008	.050	.027	.008	.047	.025	.008	
5.0	.056	.029	.008	.054	.028	.008	.051	.027	.008	.048	.025	.008	.045	.024	.007	
6.0	.053	.027	.008	.051	.026	.007	.049	.025	.007	.046	.024	.007	.043	.023	.007	
7.0	.050	.025	.007	.049	.024	.007	.047	.024	.007	.044	.023	.007	.042	.022	.006	
8.0	.048	.023	.007	.047	.023	.007	.045	.022	.006	.043	.022	.006	.041	.021	.006	
9.0	.046	.022	.006	.045	.022	.006	.043	.021	.006	.041	.021	.006	.039	.020	.006	
10.0	.044	.021	.006	.043	.021	.006	.041	.020	.006	.040	.020	.006	.038	.019	.006	

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	.103	.103	.103	.088	.088	.088	.060	.060	.060	.035	.035	.035	.011	.011	.011	
1.0	.091	.086	.080	.078	.073	.069	.053	.051	.048	.031	.029	.028	.010	.009	.009	
2.0	.081	.072	.064	.070	.062	.055	.048	.043	.039	.028	.025	.023	.009	.008	.007	
3.0	.073	.062	.052	.063	.053	.045	.043	.037	.032	.025	.022	.019	.008	.007	.006	
4.0	.066	.053	.043	.057	.046	.037	.039	.032	.026	.023	.019	.016	.007	.006	.005	
5.0	.061	.046	.036	.052	.040	.031	.036	.028	.022	.021	.016	.013	.007	.005	.004	
6.0	.056	.041	.030	.048	.036	.026	.033	.025	.019	.019	.015	.011	.006	.005	.004	
7.0	.052	.037	.026	.045	.032	.023	.031	.022	.016	.018	.013	.010	.006	.004	.003	
8.0	.048	.033	.022	.041	.029	.019	.029	.020	.014	.017	.012	.008	.005	.004	.003	
9.0	.045	.030	.019	.039	.026	.017	.027	.018	.012	.016	.011	.007	.005	.004	.002	
10.0	.042	.027	.017	.037	.024	.015	.025	.017	.011	.015	.010	.006	.005	.003	.002	

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UGR(Unified Glare Rating) Table

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SPEC.:3000K						DIM.:		SERIAL No.:2303130264			
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	7.5	8.1	7.7	8.3	8.4	8.0	8.7	8.2	8.8	9.0	
	3H	7.4	8.0	7.6	8.2	8.4	7.9	8.5	8.1	8.7	8.9
	4H	7.3	7.9	7.6	8.1	8.3	7.8	8.4	8.1	8.6	8.8
	6H	7.3	7.8	7.5	8.0	8.3	7.7	8.3	8.0	8.5	8.7
	8H	7.2	7.7	7.5	8.0	8.2	7.7	8.2	8.0	8.5	8.7
	12H	7.2	7.7	7.5	7.9	8.2	7.7	8.2	8.0	8.4	8.7
4H	2H	7.3	7.9	7.6	8.1	8.3	7.8	8.4	8.1	8.6	8.8
	3H	7.2	7.7	7.5	8.0	8.3	7.7	8.2	8.0	8.5	8.7
	4H	7.2	7.6	7.5	7.9	8.2	7.6	8.1	8.0	8.4	8.7
	6H	7.1	7.5	7.4	7.8	8.2	7.5	7.9	7.9	8.3	8.6
	8H	7.0	7.4	7.4	7.8	8.1	7.5	7.9	7.9	8.2	8.6
	12H	7.0	7.3	7.4	7.7	8.1	7.4	7.8	7.8	8.1	8.5
8H	4H	7.0	7.4	7.4	7.7	8.1	7.5	7.9	7.9	8.2	8.6
	6H	6.9	7.2	7.3	7.6	8.0	7.4	7.7	7.8	8.1	8.5
	8H	6.9	7.2	7.3	7.6	8.0	7.3	7.6	7.8	8.0	8.5
	12H	6.8	7.1	7.3	7.5	8.0	7.3	7.5	7.7	7.9	8.4
12H	4H	7.0	7.3	7.4	7.7	8.1	7.4	7.8	7.8	8.1	8.5
	6H	6.9	7.1	7.3	7.6	8.0	7.3	7.6	7.8	8.0	8.5
	8H	6.8	7.1	7.3	7.5	8.0	7.3	7.5	7.7	7.9	8.4
Variations with the observer position at spacings:											
S = 1.0H	+ 2.7 / - 4.6					+ 3.5 / - 6.2					
1.5H	+ 3.9 / - 3.1					+ 4.9 / - 3.7					
2.0H	+ 3.6 / - 4.5					+ 3.9 / - 5.4					

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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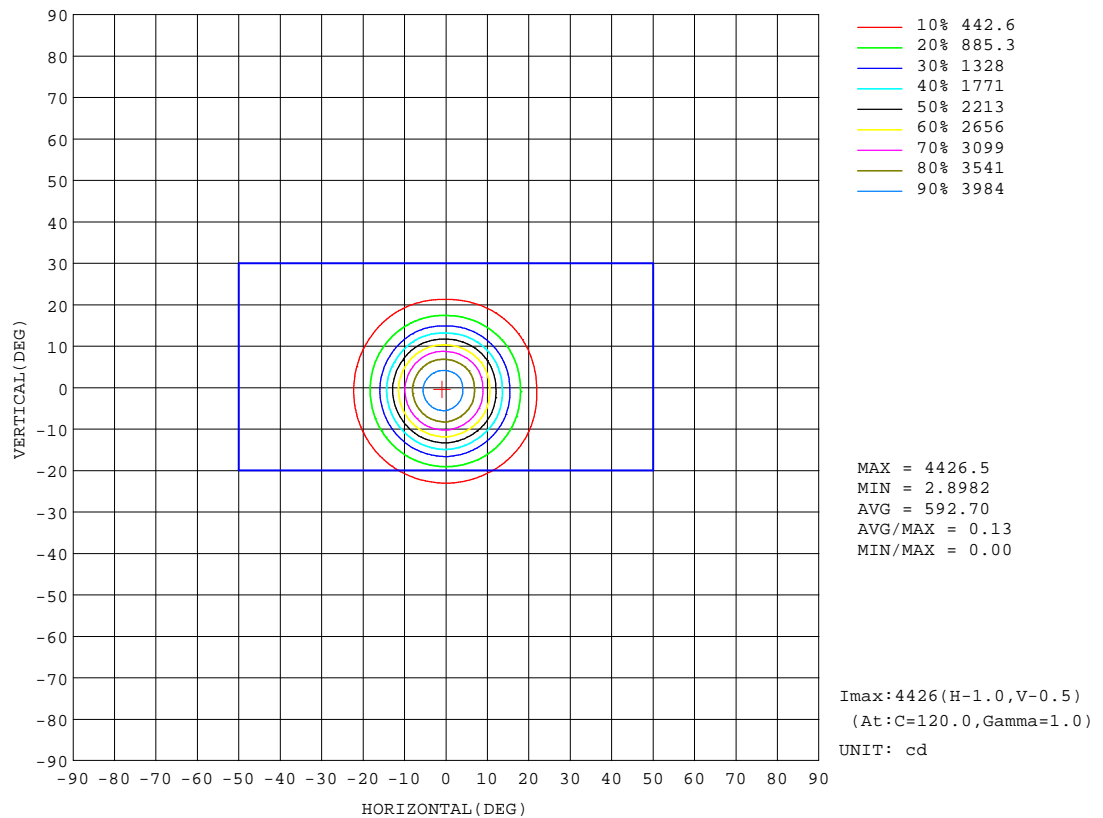
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	49	46	44	49	46	44	49	46	44	42
0.80	53	50	48	53	50	48	52	50	48	46
1.00	55	52	51	55	52	50	54	52	50	48
1.25	57	55	53	57	54	53	55	54	52	50
1.50	58	56	54	58	56	54	57	55	54	51
2.00	60	58	56	59	57	56	57	56	55	52
2.50	60	59	57	60	58	57	58	57	56	52
3.00	61	59	58	60	59	58	58	57	56	53
4.00	62	61	60	61	60	59	59	58	58	54
5.00	63	62	61	62	61	60	60	59	58	54
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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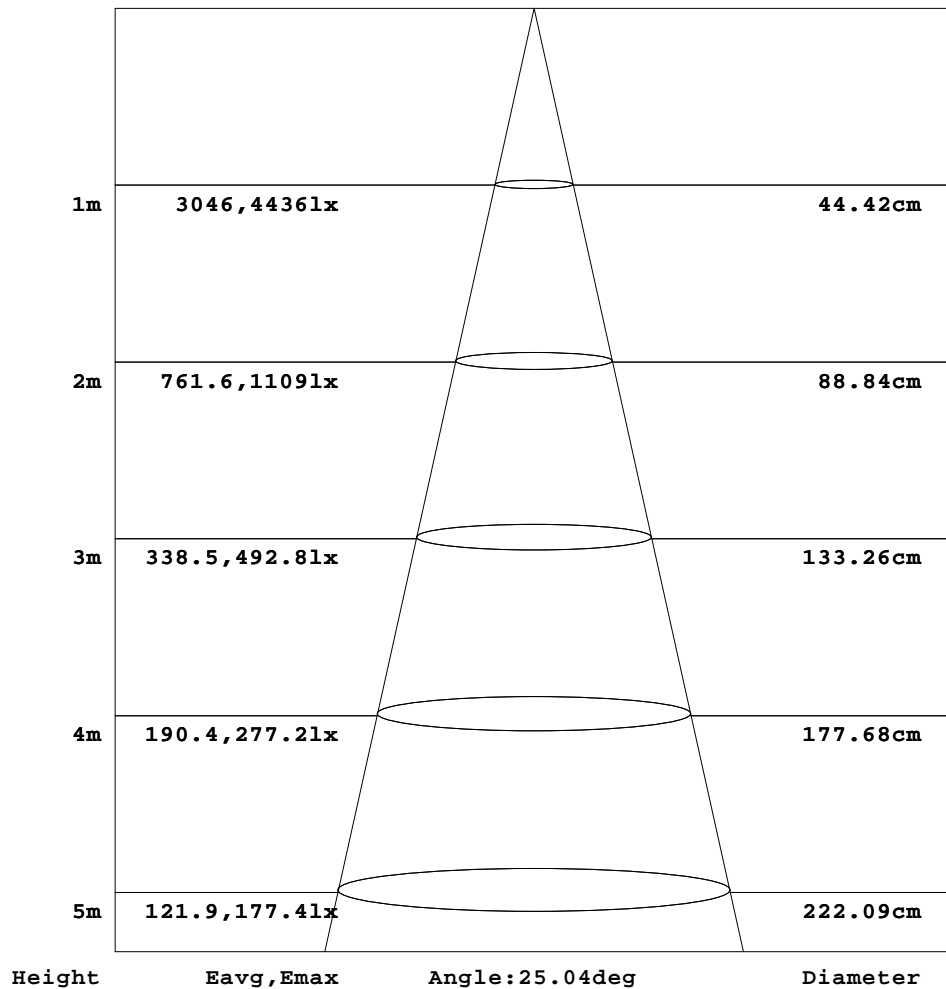
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AAI Figure

Test:U:120.00V I:0.1481A P:17.681W PF:0.9941 Freq:59.98Hz Lamp Flux:1749.31x1 lm		
NAME: 2218.144-LEA-14	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2303130264
MFR.: RISE	SUR.:0.003737385m2	Shielding Angle:

Flux out:510.1 lm



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

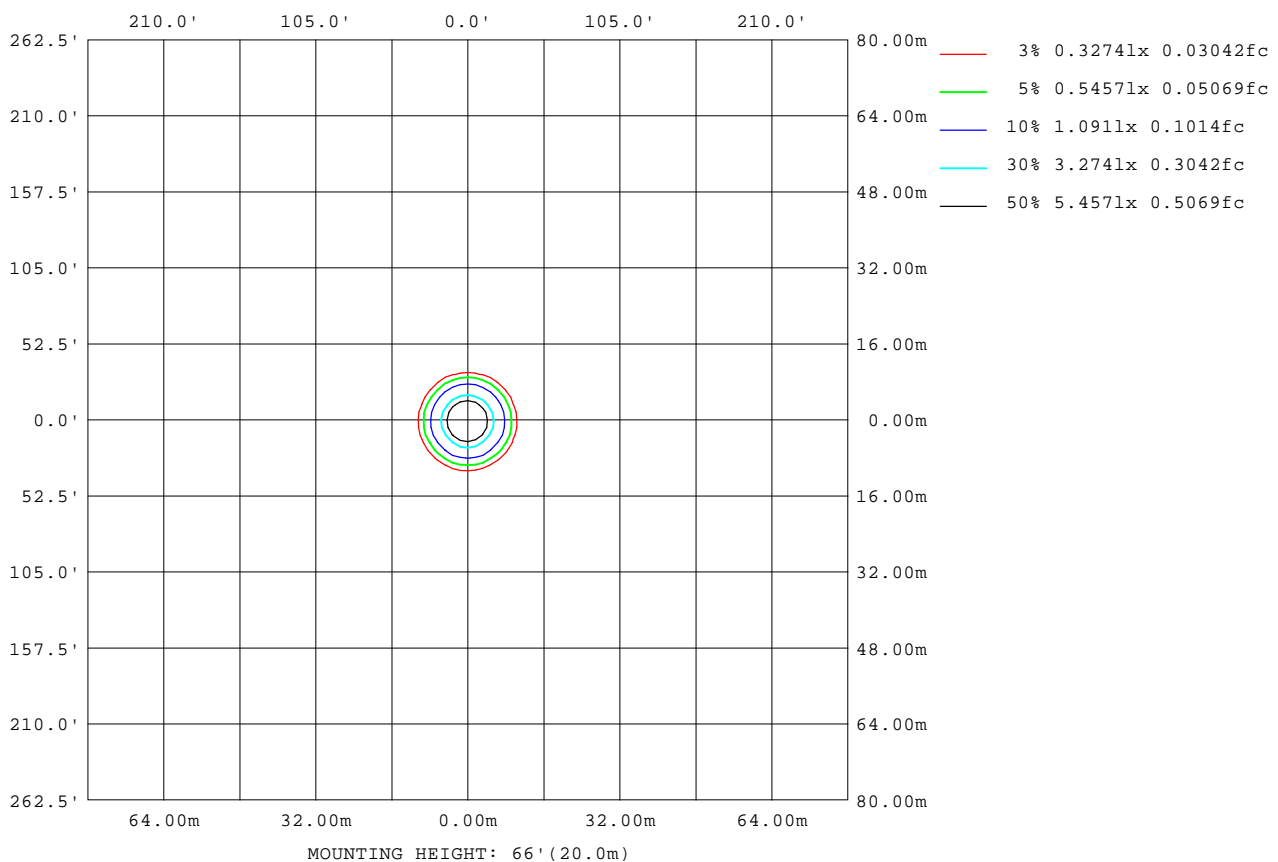
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zoe
Test Date:2023-3-13

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:120.00V I:0.1481A P:17.681W PF:0.9941 Freq:59.98Hz Lamp Flux:1749.31x1 lm		
NAME: 2218.144-LEA-14	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2303130264
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: 2023-3-13

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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

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LED Avg.L Report

Test:U:120.00V I:0.1481A P:17.681W PF:0.9941 Freq:59.98Hz Lamp Flux:1749.31x1 lm		
NAME: 2218.144-LEA-14	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2303130264
MFR.: RISE	SUR.:0.003737385m2	Shielding Angle:

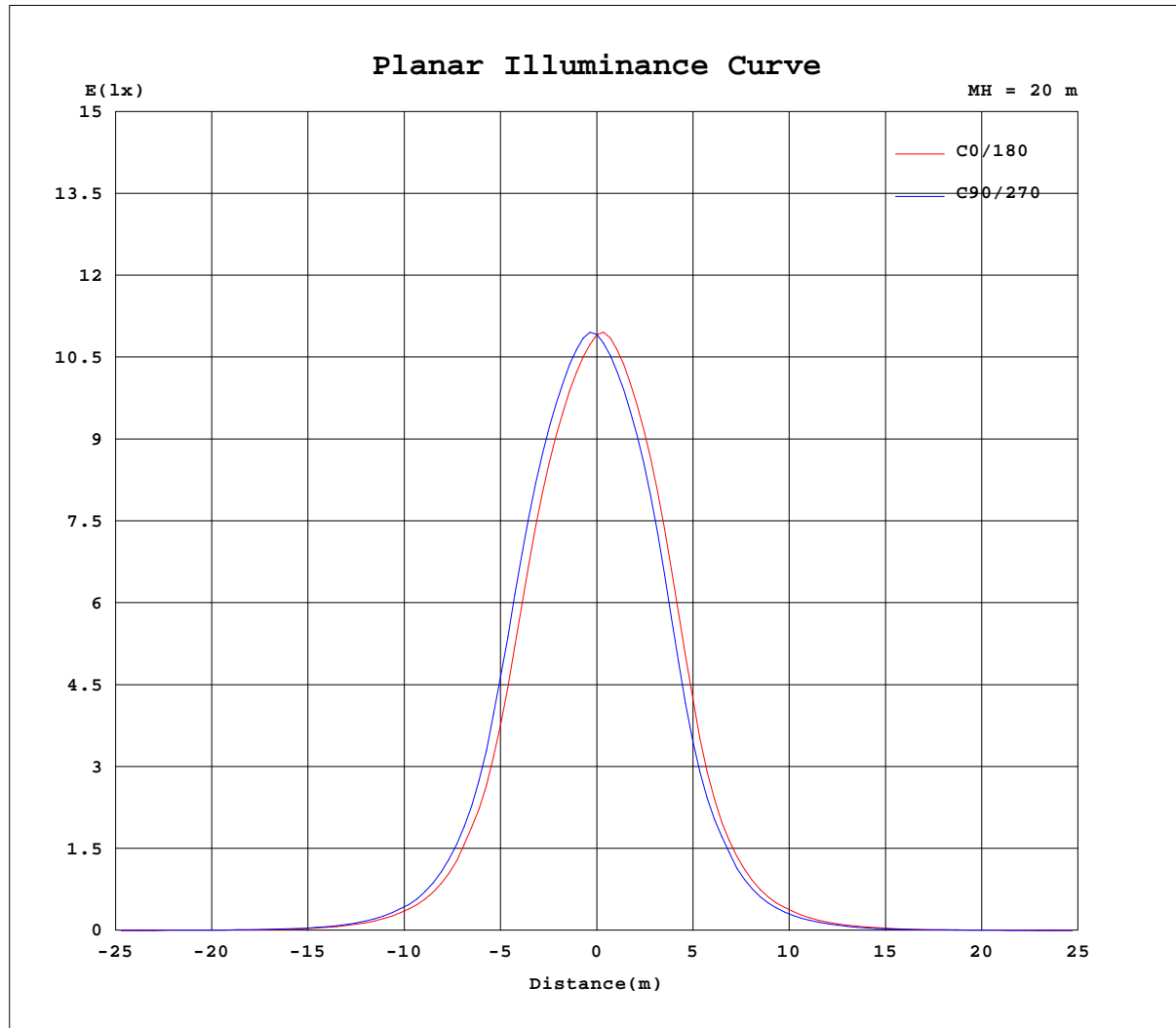
AvgL	cd/m2
L_0~180(65)av	659
L_0~180(75)av	346
L_0~180(85)av	271
L_90~270(65)av	477
L_90~270(75)av	234
L_90~270(85)av	182
L_45(65)av	579
L_45(75)av	285
L_45(85)av	196

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zoe
Test Date:2023-3-13

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: 2023-3-13

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:120.00V I:0.1481A P:17.681W PF:0.9941 Freq:59.98Hz Lamp Flux:1749.31x1 lm		
NAME: 2218.144-LEA-14	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2303130264
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	4373	4373	4373	4373	4373	4373	4373	4373	4373	4373	4373	4373						
5	3855	3922	3990	4067	4085	4068	4064	3978	3917	3853	3831	3836						
10	2816	2955	3062	3177	3182	3126	3084	2950	2846	2731	2718	2771						
15	1417	1550	1642	1764	1722	1631	1565	1430	1377	1293	1322	1366						
20	616	692	749	764	751	694	658	609	591	554	574	591						
25	258	291	303	313	305	287	273	250	248	224	242	246						
30	109	123	128	132	130	123	116	106	100	91.9	97.7	103						
35	42.9	47.8	50.3	52.7	52.2	49.9	47.0	42.8	39.7	35.8	37.6	40.4						
40	16.2	18.5	18.0	20.4	19.2	19.5	18.7	16.3	15.1	13.4	14.2	15.6						
45	10.9	10.9	11.2	11.1	11.0	10.6	10.6	10.6	9.77	8.53	9.28	10.6						
50	7.17	7.08	7.13	7.07	6.85	6.62	6.76	6.67	5.94	5.11	5.68	6.87						
55	3.96	4.19	4.06	4.07	3.83	3.80	3.88	3.21	3.24	2.63	2.93	3.15						
60	2.06	2.17	2.07	1.91	1.94	1.98	1.95	1.67	1.51	1.34	1.47	1.76						
65	1.13	1.13	0.99	0.81	0.88	0.93	0.96	0.87	0.77	0.70	0.76	0.97						
70	0.66	0.65	0.55	0.41	0.48	0.51	0.53	0.48	0.43	0.39	0.43	0.56						
75	0.37	0.35	0.29	0.24	0.26	0.27	0.30	0.26	0.23	0.21	0.23	0.31						
80	0.20	0.18	0.15	0.12	0.13	0.14	0.16	0.14	0.12	0.12	0.12	0.16						
85	0.10	0.09	0.07	0.06	0.06	0.06	0.08	0.06	0.05	0.06	0.05	0.07						
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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