

Luminaire Photograph



Light Output Ratio:	84.9%	
Luminaire Power:	20.28 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: 2023-3-14

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: TH-YL5023H-24D 24R
DRIVER: RMS-20-500AS 500mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

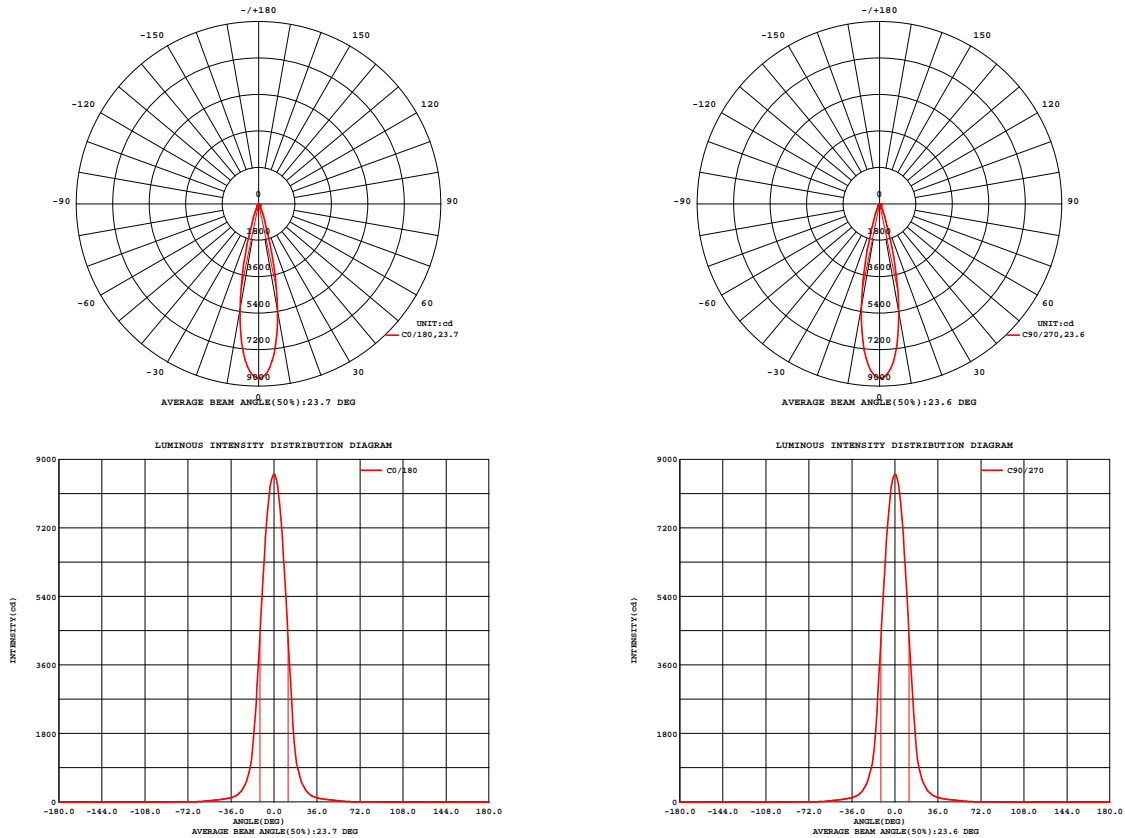


Fig. C0/C180

Fig. C90/C270

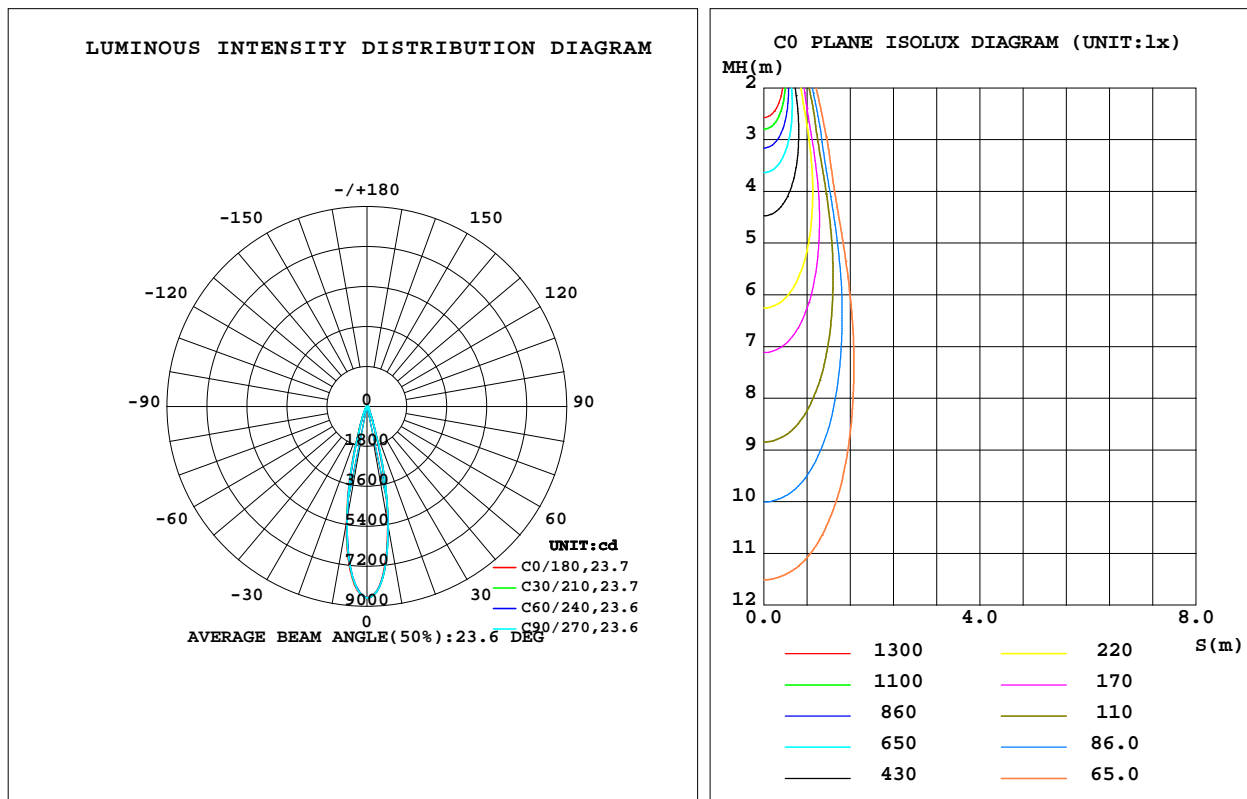
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30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.28V I:0.0954A P:20.277W PF:0.9624 Freq:49.99Hz Lamp Flux:2052.9x1 lm		
NAME: 2319.200-AD3-500	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2303140312
MFR.: RISE	SUR.:0.002826m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 85.92 lm/W			
MODEL	Bridgelux	I _{max} (cd)	8614	S/MH(C0/180)	0.39
NOMINAL POWER(W)	20	LOR(%)	84.9	S/MH(C90/270)	0.38
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	1742.3	η UP,DN(C0-180)	0.0,42.8
NOMINAL FLUX(lm)	2052.9	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,42.1
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	220	η down(%)	84.9	CIBSE SHR MAX	1.00



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Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.416
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ZONAL FLUX DIAGRAM

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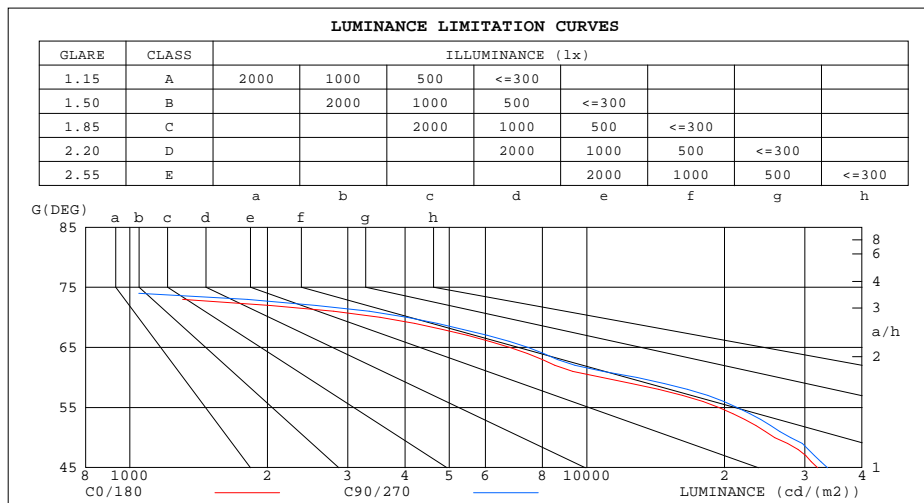
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	5409	5500	5484	5208	5328	5201	5215	5504	0- 10	662.6	662.6	38,32.3
20	887.0	938.3	947.1	877.6	889.9	866.0	866.0	925.7	10- 20	706.6	1369	78.6,66.7
30	201.6	215.1	223.8	204.3	208.4	201.8	201.5	214.5	20- 30	203.0	1572	90.2,76.6
40	85.92	88.60	91.21	86.23	87.23	86.53	87.99	89.17	30- 40	82.17	1654	95,80.6
50	46.87	48.52	50.73	48.00	47.49	45.89	46.54	47.16	40- 50	50.81	1705	97.9,83.1
60	15.27	16.75	18.19	15.89	15.37	13.43	13.49	15.04	50- 60	28.08	1733	99.5,84.4
70	3.415	3.455	3.906	3.306	3.349	2.717	2.891	3.226	60- 70	8.103	1741	100,84.8
80	0.0869	0.0700	0.0784	0.0604	0.0683	0.0457	0.0543	0.0369	70- 80	0.8079	1742	100,84.9
90	0	0	0	0	0	0	0	0	80- 90	0.0508	1742	100,84.9
100	0	0	0	0	0	0	0	0	90-100	0	1742	100,84.9
110	0	0	0	0	0	0	0	0	100-110	0	1742	100,84.9
120	0	0	0	0	0	0	0	0	110-120	0	1742	100,84.9
130	0	0	0	0	0	0	0	0	120-130	0	1742	100,84.9
140	0	0	0	0	0	0	0	0	130-140	0	1742	100,84.9
150	0	0	0	0	0	0	0	0	140-150	0	1742	100,84.9
160	0	0	0	0	0	0	0	0	150-160	0	1742	100,84.9
170	0	0	0	0	0	0	0	0	160-170	0	1742	100,84.9
180	0	0	0	0	0	0	0	0	170-180	0	1742	100,84.9
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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Humidity:65.0%
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30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:220.28V I:0.0954A P:20.277W PF:0.9624 Freq:49.99Hz Lamp Flux:2052.9x1 lm		
NAME: 2319.200-AD3-500	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2303140312
MFR.: RISE	SUR.:0.002826m2	Shielding Angle:



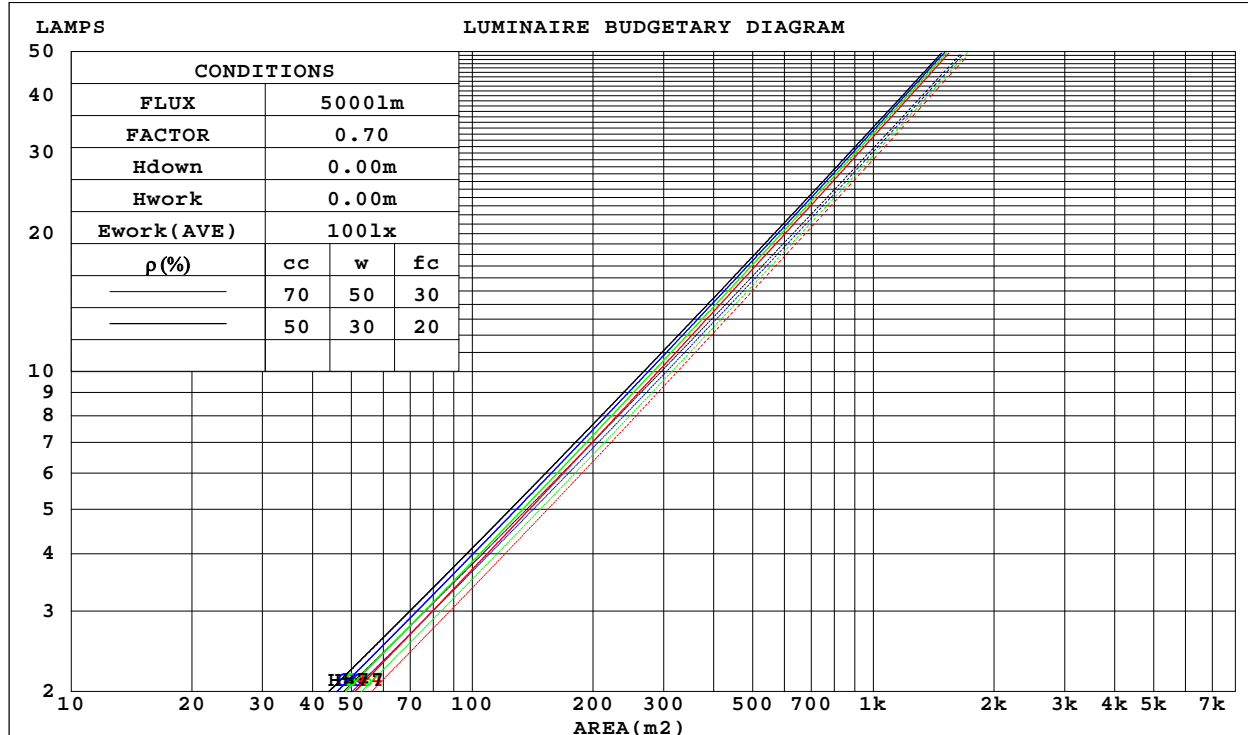
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.:3000K	DIM.:	SERIAL No.:2303140312
MFR.: RISE	SUR.:0.002826m2	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	1.01	1.01	1.01	.99	.99	.99	.94	.94	.94	.90	.90	.90	.87	.87	.87	.85
1.0	.96	.94	.93	.94	.92	.91	.90	.89	.88	.87	.86	.86	.84	.84	.83	.82
2.0	.91	.88	.86	.90	.87	.85	.87	.85	.83	.84	.83	.82	.82	.81	.80	.79
3.0	.87	.84	.81	.86	.83	.81	.84	.81	.79	.82	.80	.78	.80	.78	.77	.76
4.0	.83	.80	.77	.82	.79	.77	.81	.78	.76	.79	.77	.75	.78	.76	.74	.73
5.0	.80	.77	.74	.79	.76	.74	.78	.75	.73	.77	.74	.72	.76	.74	.72	.71
6.0	.77	.74	.71	.77	.73	.71	.76	.73	.70	.75	.72	.70	.74	.71	.70	.69
7.0	.75	.71	.69	.74	.71	.69	.73	.70	.68	.73	.70	.68	.72	.69	.68	.67
8.0	.73	.69	.67	.72	.69	.66	.71	.68	.66	.71	.68	.66	.70	.67	.66	.65
9.0	.70	.67	.65	.70	.67	.64	.69	.66	.64	.69	.66	.64	.68	.66	.64	.63
10.0	.69	.65	.63	.68	.65	.63	.68	.65	.63	.67	.64	.62	.67	.64	.62	.62



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30minutes warm-up

WEC AND CCEC

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SPEC.:3000K	DIM.:	SERIAL No.:2303140312
MFR.: RISE	SUR.:0.002826m2	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	.119	.068	.021	.114	.065	.021	.103	.059	.019	.093	.054	.017	.084	.049	.016	
2.0	.111	.061	.019	.107	.059	.018	.098	.054	.017	.090	.050	.016	.082	.047	.015	
3.0	.104	.055	.017	.100	.054	.016	.093	.050	.015	.086	.047	.014	.080	.044	.014	
4.0	.097	.051	.015	.094	.049	.015	.088	.047	.014	.082	.044	.013	.077	.042	.013	
5.0	.092	.047	.014	.089	.046	.013	.084	.043	.013	.079	.042	.012	.074	.040	.012	
6.0	.086	.043	.012	.084	.042	.012	.080	.041	.012	.075	.039	.012	.071	.038	.011	
7.0	.082	.040	.011	.080	.040	.011	.076	.038	.011	.072	.037	.011	.069	.036	.011	
8.0	.078	.038	.011	.076	.037	.011	.073	.036	.010	.069	.035	.010	.066	.034	.010	
9.0	.074	.036	.010	.073	.035	.010	.070	.034	.010	.067	.033	.010	.064	.033	.009	
10.0	.071	.034	.009	.069	.034	.009	.067	.033	.009	.064	.032	.009	.062	.031	.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	.162	.162	.162	.138	.138	.138	.094	.094	.094	.054	.054	.054	.017	.017	.017	
1.0	.143	.134	.125	.122	.115	.108	.084	.079	.075	.048	.046	.043	.015	.015	.014	
2.0	.128	.113	.100	.110	.097	.086	.075	.067	.060	.043	.039	.035	.014	.013	.011	
3.0	.115	.096	.081	.099	.083	.070	.068	.058	.049	.039	.034	.029	.013	.011	.009	
4.0	.105	.083	.066	.090	.072	.058	.062	.050	.041	.036	.029	.024	.012	.010	.008	
5.0	.096	.073	.055	.083	.063	.048	.057	.044	.034	.033	.026	.020	.011	.008	.007	
6.0	.089	.064	.047	.076	.056	.041	.053	.039	.029	.030	.023	.017	.010	.007	.006	
7.0	.082	.057	.040	.071	.050	.035	.049	.035	.025	.028	.021	.015	.009	.007	.005	
8.0	.077	.052	.035	.066	.045	.030	.046	.031	.021	.027	.019	.013	.009	.006	.004	
9.0	.072	.047	.030	.062	.041	.026	.043	.029	.019	.025	.017	.011	.008	.006	.004	
10.0	.067	.043	.026	.058	.037	.023	.040	.026	.016	.024	.015	.010	.008	.005	.003	

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30minutes warm-up

UGR(Unified Glare Rating) Table

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NAME: 2319.200-AD3-500						TYPE:		WEIGHT:			
SPEC.:3000K						DIM.:		SERIAL No.:2303140312			
MFR.: RISE						SUR.:0.002826m2		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		16.3	16.9	16.5	17.1	17.2	16.5	17.2	16.7	17.4	17.5
	3H	16.2	16.9	16.5	17.0	17.2	16.5	17.1	16.8	17.3	17.5
	4H	16.2	16.8	16.4	17.0	17.2	16.4	17.0	16.7	17.3	17.5
	6H	16.1	16.6	16.4	16.9	17.1	16.4	16.9	16.6	17.2	17.4
	8H	16.0	16.6	16.3	16.8	17.1	16.3	16.9	16.6	17.1	17.4
	12H	16.0	16.5	16.3	16.8	17.0	16.3	16.8	16.6	17.1	17.3
4H	2H	16.3	16.9	16.5	17.1	17.3	16.5	17.1	16.8	17.3	17.5
	3H	16.2	16.8	16.5	17.0	17.3	16.5	17.0	16.8	17.3	17.6
	4H	16.1	16.6	16.5	16.9	17.2	16.4	16.9	16.7	17.2	17.5
	6H	16.0	16.5	16.4	16.8	17.1	16.3	16.7	16.7	17.1	17.4
	8H	16.0	16.4	16.4	16.7	17.1	16.3	16.7	16.6	17.0	17.4
	12H	15.9	16.3	16.3	16.7	17.0	16.2	16.6	16.6	16.9	17.3
8H	4H	16.0	16.4	16.4	16.7	17.1	16.3	16.7	16.6	17.0	17.4
	6H	15.9	16.2	16.3	16.6	17.0	16.1	16.5	16.6	16.9	17.3
	8H	15.8	16.1	16.3	16.5	17.0	16.1	16.4	16.5	16.8	17.2
	12H	15.8	16.0	16.2	16.5	16.9	16.0	16.3	16.5	16.7	17.2
12H	4H	15.9	16.3	16.3	16.7	17.1	16.2	16.6	16.6	16.9	17.3
	6H	15.8	16.1	16.3	16.5	17.0	16.1	16.4	16.5	16.8	17.2
	8H	15.8	16.0	16.2	16.5	16.9	16.0	16.3	16.5	16.7	17.2
Variations with the observer position at spacings:											
S = 1.0H		+ 1.4 / - 2.4					+ 1.3 / - 2.1				
1.5H		+ 1.0 / - 0.9					+ 1.2 / - 0.9				
2.0H		+ 2.8 / - 4.9					+ 2.7 / - 5.1				

CIE Pub.117, 2053 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 2.5)
Area: 0.002826 m2

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30minutes warm-up

UTILIZATION FACTORS TABLE

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MFR.: RISE	SUR.:0.002826m2	Shielding Angle:

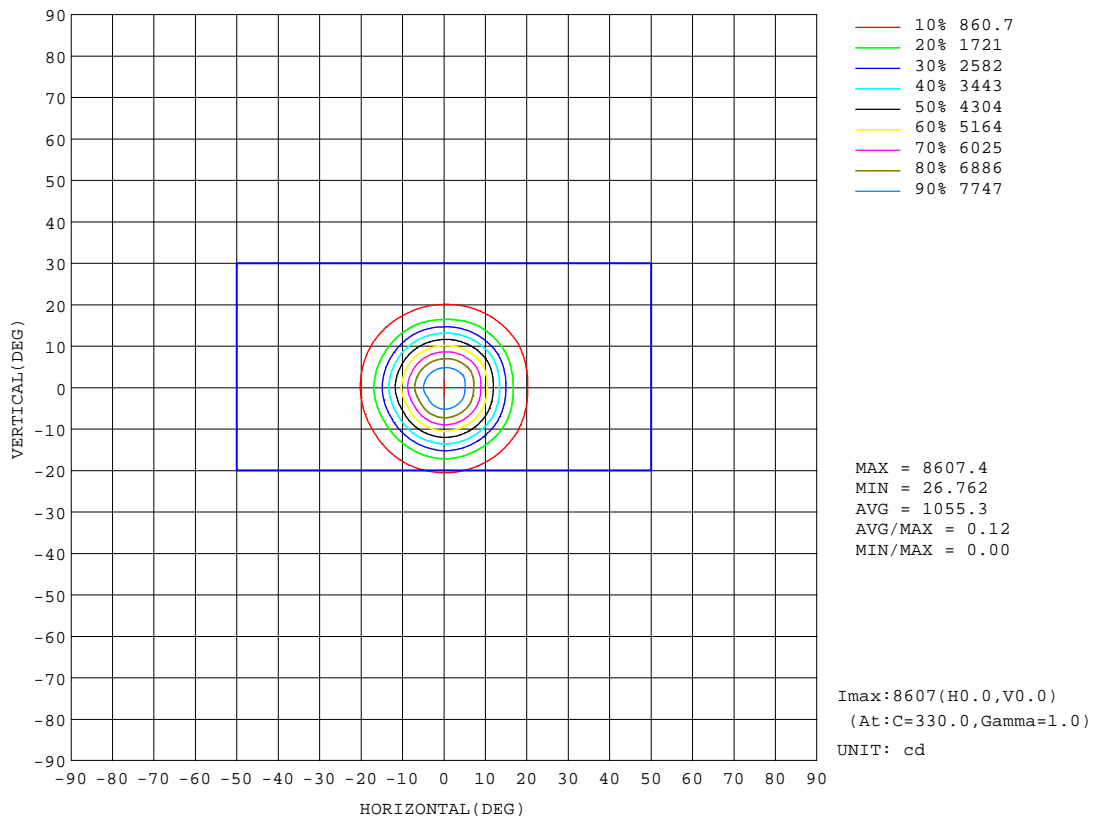
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	75	70	67	75	70	67	74	69	66	63
0.80	81	76	73	81	76	73	80	76	73	70
1.00	85	80	77	84	80	77	83	80	77	73
1.25	88	84	81	87	83	81	86	82	80	77
1.50	90	86	84	89	86	83	87	85	82	79
2.00	92	89	86	91	88	86	89	87	85	80
2.50	94	91	88	93	90	88	90	88	86	81
3.00	95	92	90	94	91	89	91	89	87	82
4.00	97	95	93	95	93	92	92	91	89	83
5.00	98	96	94	96	94	93	93	92	91	84
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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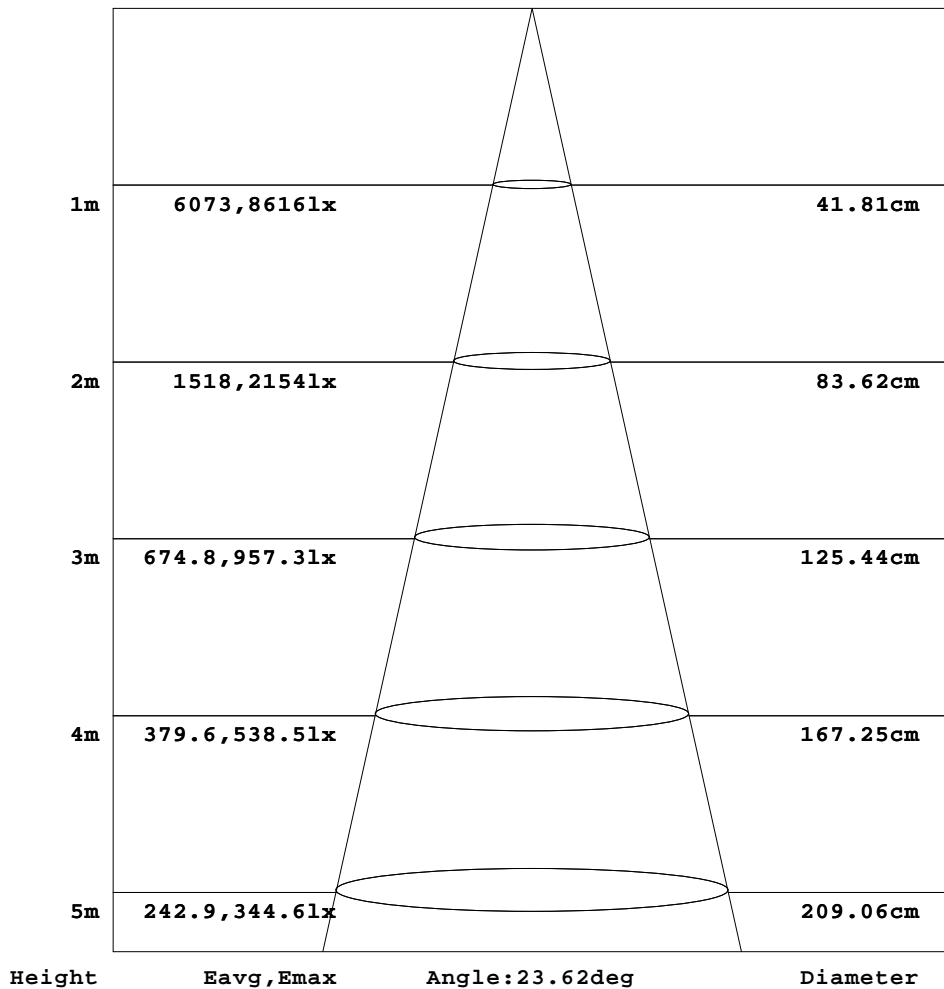
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AAI Figure

Test:U:220.28V I:0.0954A P:20.277W PF:0.9624 Freq:49.99Hz Lamp Flux:2052.9x1 lm		
NAME: 2319.200-AD3-500	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2303140312
MFR.: RISE	SUR.:0.002826m2	Shielding Angle:

Flux out:862.0 lm



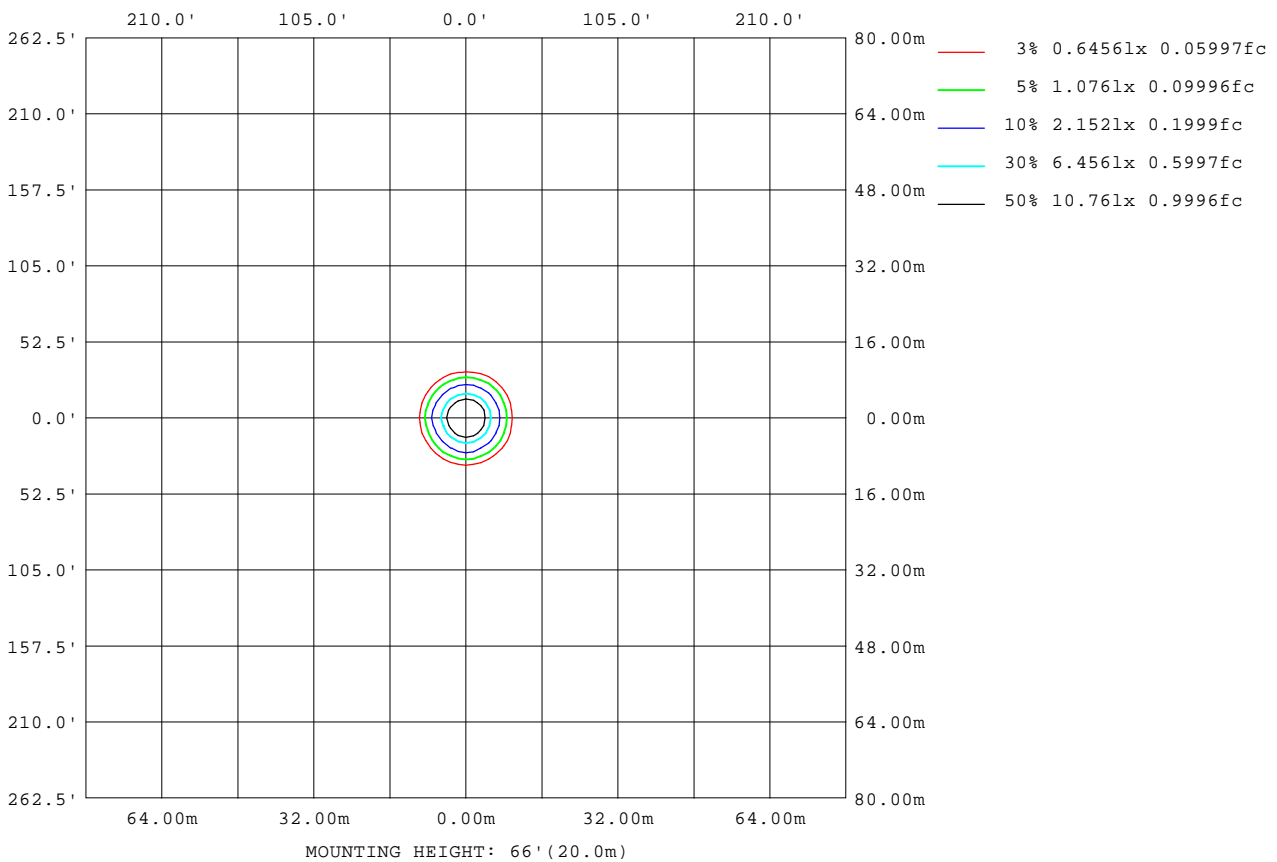
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zoe
Test Date:2023-3-14

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: TH-YL5023H-24D 24R
DRIVER: RMS-20-500AS 500mA
30minutes warm-up

ISOLUX DIAGRAM

Test:U:220.28V I:0.0954A P:20.277W PF:0.9624 Freq:49.99Hz Lamp Flux:2052.9x1 lm		
NAME: 2319.200-AD3-500	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2303140312
MFR.: RISE	SUR.:0.002826m2	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zoe
Test Date:2023-3-14

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: TH-YL5023H-24D 24R
DRIVER: RMS-20-500AS 500mA
30minutes warm-up

LED Avg.L Report

Test:U:220.28V I:0.0954A P:20.277W PF:0.9624 Freq:49.99Hz Lamp Flux:2052.9x1 lm		
NAME: 2319.200-AD3-500	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2303140312
MFR.: RISE	SUR.:0.002826m2	Shielding Angle:

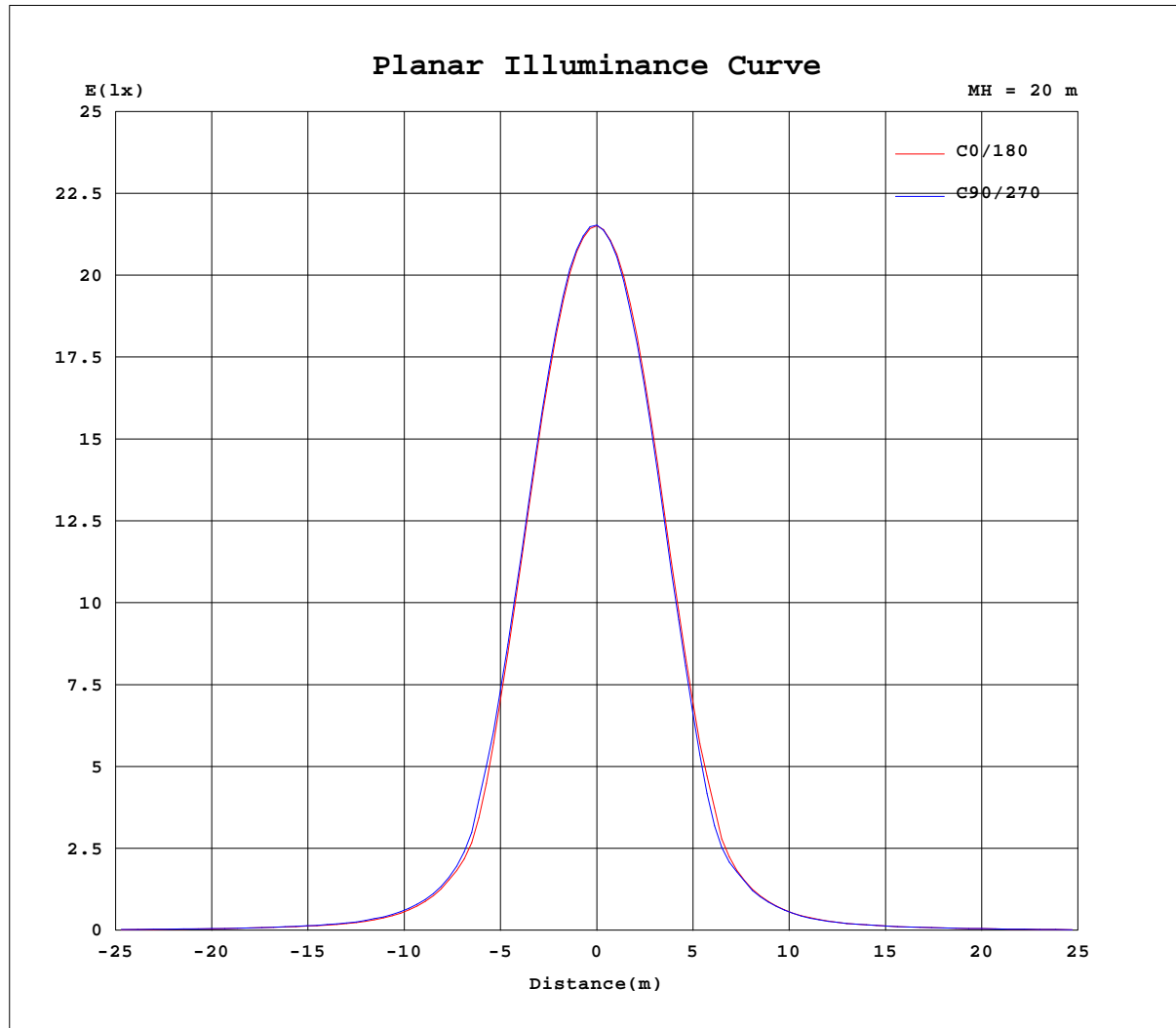
AvgL	cd/m2
L_0~180(65)av	6791
L_0~180(75)av	217
L_0~180(85)av	286
L_90~270(65)av	6804
L_90~270(75)av	247
L_90~270(85)av	240
L_45(65)av	6583
L_45(75)av	189
L_45(85)av	147

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zoe
Test Date:2023-3-14

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: TH-YL5023H-24D 24R
DRIVER: RMS-20-500AS 500mA
30minutes warm-up

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Zoe
 Test Date: 2023-3-14

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: TH-YL5023H-24D 24R
 DRIVER: RMS-20-500AS 500mA
 30minutes warm-up

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.28V I:0.0954A P:20.277W PF:0.9624 Freq:49.99Hz Lamp Flux:2052.9x1 lm		
NAME: 2319.200-AD3-500	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2303140312
MFR.: RISE	SUR.:0.002826m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	8612	8612	8612	8612	8612	8612	8612	8612	8612	8612	8612	8612						
5	7779	7850	7834	7835	7748	7622	7747	7676	7644	7653	7774	7903						
10	5409	5515	5486	5484	5305	5111	5328	5221	5182	5215	5389	5618						
15	2542	2681	2693	2699	2524	2408	2535	2414	2438	2380	2539	2726						
20	887	938	939	947	907	849	890	886	846	866	905	946						
25	404	436	426	430	413	388	402	397	395	396	426	429						
30	202	219	211	224	207	202	208	199	204	202	217	212						
35	123	129	129	132	127	122	126	124	124	126	129	129						
40	85.9	87.7	89.5	91.2	87.8	84.7	87.2	86.3	86.8	88.0	89.0	89.3						
45	64.0	65.4	66.2	67.2	65.4	64.3	64.9	63.9	64.8	65.2	65.8	66.5						
50	46.9	48.1	48.9	50.7	49.1	46.9	47.5	45.8	46.0	46.5	46.9	47.4						
55	31.6	32.8	33.4	34.6	33.2	31.7	32.1	30.3	30.1	30.1	31.2	32.0						
60	15.3	16.6	16.9	18.2	16.6	15.1	15.4	13.6	13.2	13.5	14.4	15.7						
65	8.11	8.22	8.34	8.88	8.44	7.89	8.11	7.27	7.11	7.37	7.69	8.16						
70	3.41	3.41	3.50	3.91	3.51	3.10	3.35	2.77	2.66	2.89	3.06	3.40						
75	0.17	0.17	0.22	0.26	0.17	0.14	0.15	0.11	0.09	0.10	0.10	0.14						
80	0.09	0.06	0.08	0.08	0.06	0.06	0.07	0.05	0.04	0.05	0.03	0.04						
85	0.08	0.05	0.06	0.07	0.04	0.04	0.06	0.04	0.03	0.05	0.03	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						

C Range: 0 - 360DEG
C Interval: 30.0DEG
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