

Luminaire Photograph



Light Output Ratio:	77.8%	
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-15D 15R
 DRIVER: RMS-20-500AS 500mA
 30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

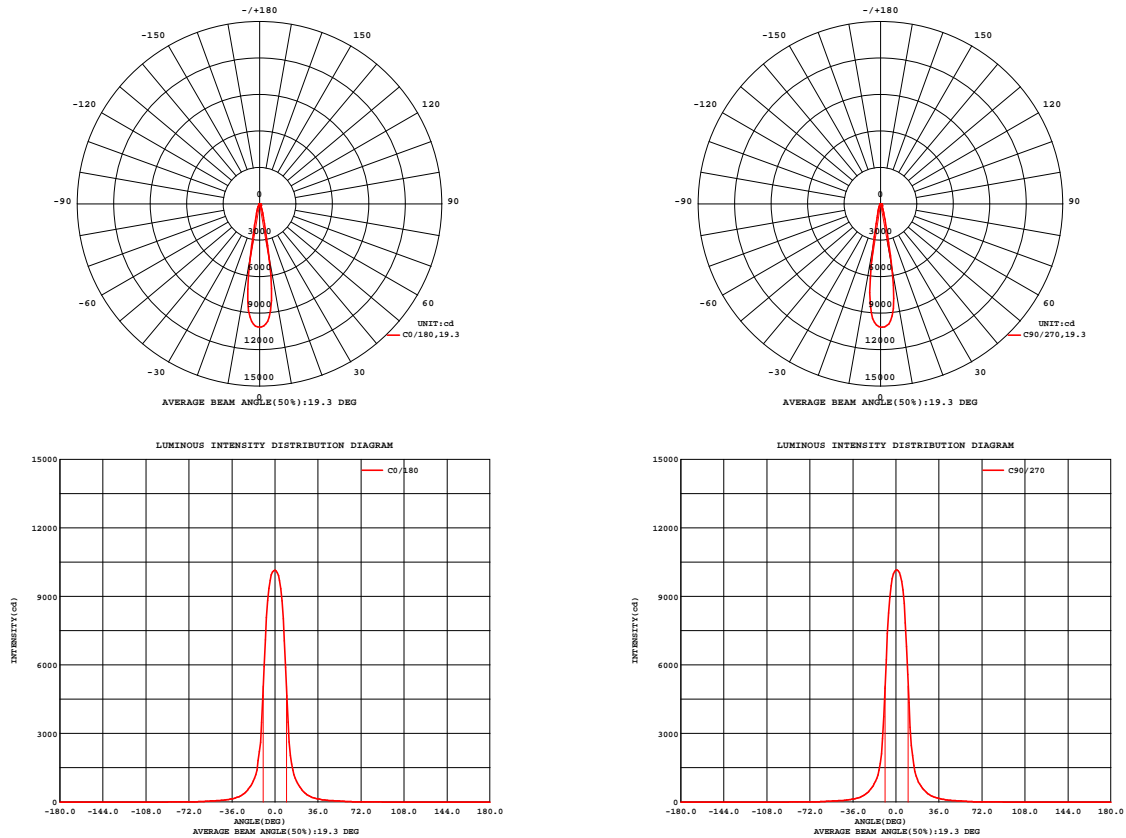


Fig. C0/C180

Fig. C90/C270

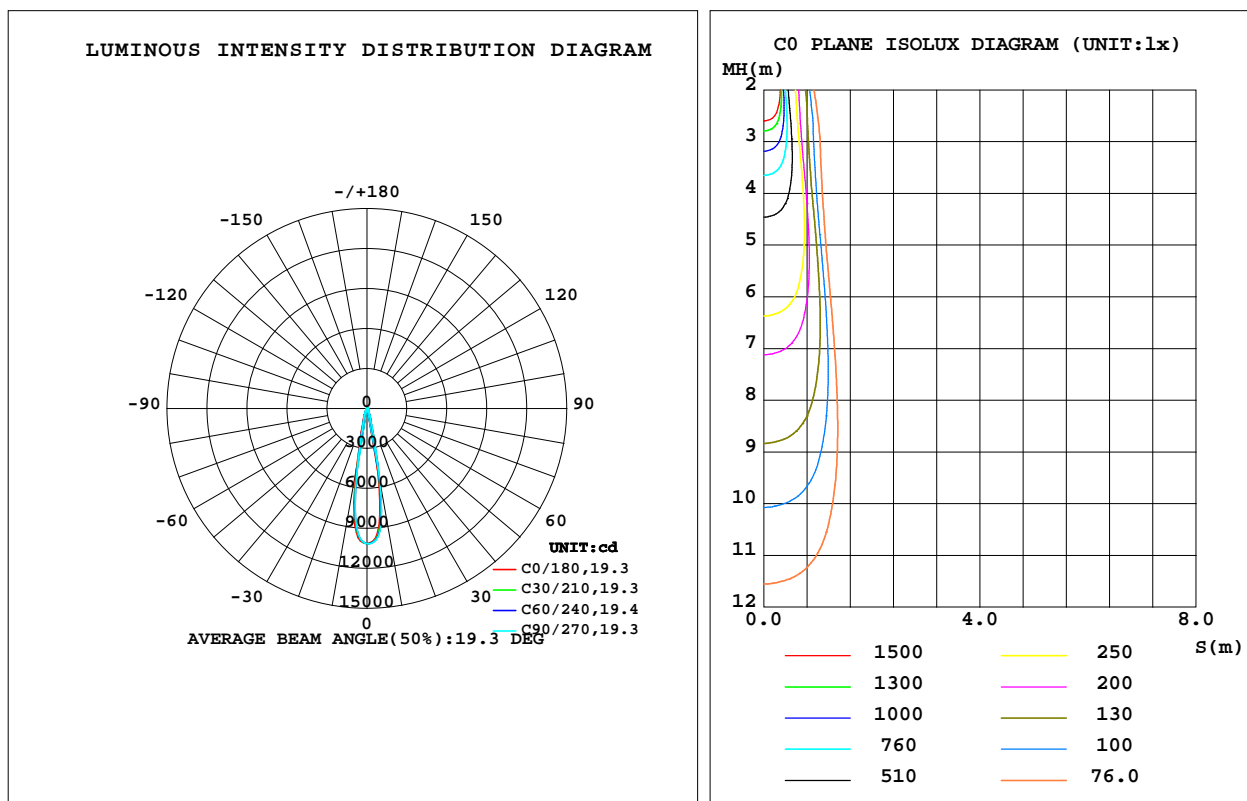
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LUMINAIRE PHOTOMETRIC TEST REPORT

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.:2303140311
MFR.: RISE	SUR.:0.002826m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 78.76 lm/W			
MODEL	Bridgelux	I _{max} (cd)	10155	S/MH(C0/180)	0.30
NOMINAL POWER(W)	20	LOR(%)	77.8	S/MH(C90/270)	0.28
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	1597.0	η UP,DN(C0-180)	0.0,40.9
NOMINAL FLUX(lm)	2052.9	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,36.9
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	220	η down(%)	77.8	CIBSE SHR MAX	1.00



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Humidity:65.0%
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ZONAL FLUX DIAGRAM

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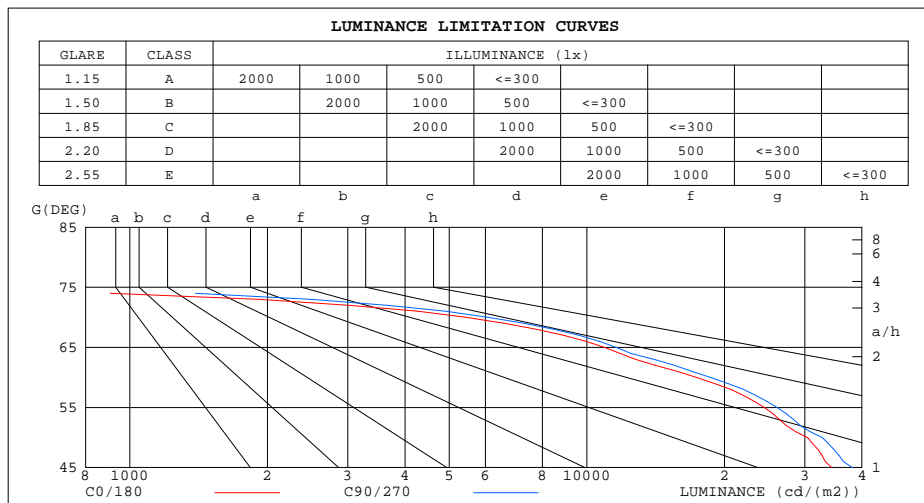
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	464.2	536.6	558.4	473.0	463.6	396.2	373.8	455.2	0- 10	742.5	742.5	46.5,36.2
20	73.88	77.69	78.45	74.24	72.54	65.53	63.35	71.07	10- 20	460.6	1203	75.3,58.6
30	22.88	25.50	26.45	24.57	23.42	21.96	20.96	22.49	20- 30	191.3	1394	87.3,67.9
40	9.733	10.76	11.28	10.48	9.908	9.290	9.041	9.612	30- 40	97.64	1492	93.4,72.7
50	5.525	5.681	5.952	5.564	5.465	5.041	5.196	5.446	40- 50	56.14	1548	96.9,75.4
60	2.457	2.495	2.639	2.415	2.391	2.158	2.239	2.456	50- 60	34.75	1583	99.1,77.1
70	0.5254	0.5362	0.5874	0.4968	0.4949	0.3969	0.4275	0.5139	60- 70	12.89	1596	99.9,77.7
80	0.0090	0.0076	0.0082	0.0064	0.0073	0.0048	0.0056	0.0039	70- 80	1.181	1597	100,77.8
90	0	0	0	0	0	0	0	0	80- 90	0.0498	1597	100,77.8
100	0	0	0	0	0	0	0	0	90-100	0	1597	100,77.8
110	0	0	0	0	0	0	0	0	100-110	0	1597	100,77.8
120	0	0	0	0	0	0	0	0	110-120	0	1597	100,77.8
130	0	0	0	0	0	0	0	0	120-130	0	1597	100,77.8
140	0	0	0	0	0	0	0	0	130-140	0	1597	100,77.8
150	0	0	0	0	0	0	0	0	140-150	0	1597	100,77.8
160	0	0	0	0	0	0	0	0	150-160	0	1597	100,77.8
170	0	0	0	0	0	0	0	0	160-170	0	1597	100,77.8
180	0	0	0	0	0	0	0	0	170-180	0	1597	100,77.8
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

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30minutes warm-up

LUMINANCE LIMITATION CURVES

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SPEC.:3000K	DIM.:	SERIAL No.:2303140311
MFR.: RISE	SUR.:0.002826m2	Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	305	277
80	183	167
75	388	466
70	5436	6075
65	10927	11602
60	17392	18670
55	24498	26125
50	30417	32756
45	34412	38138

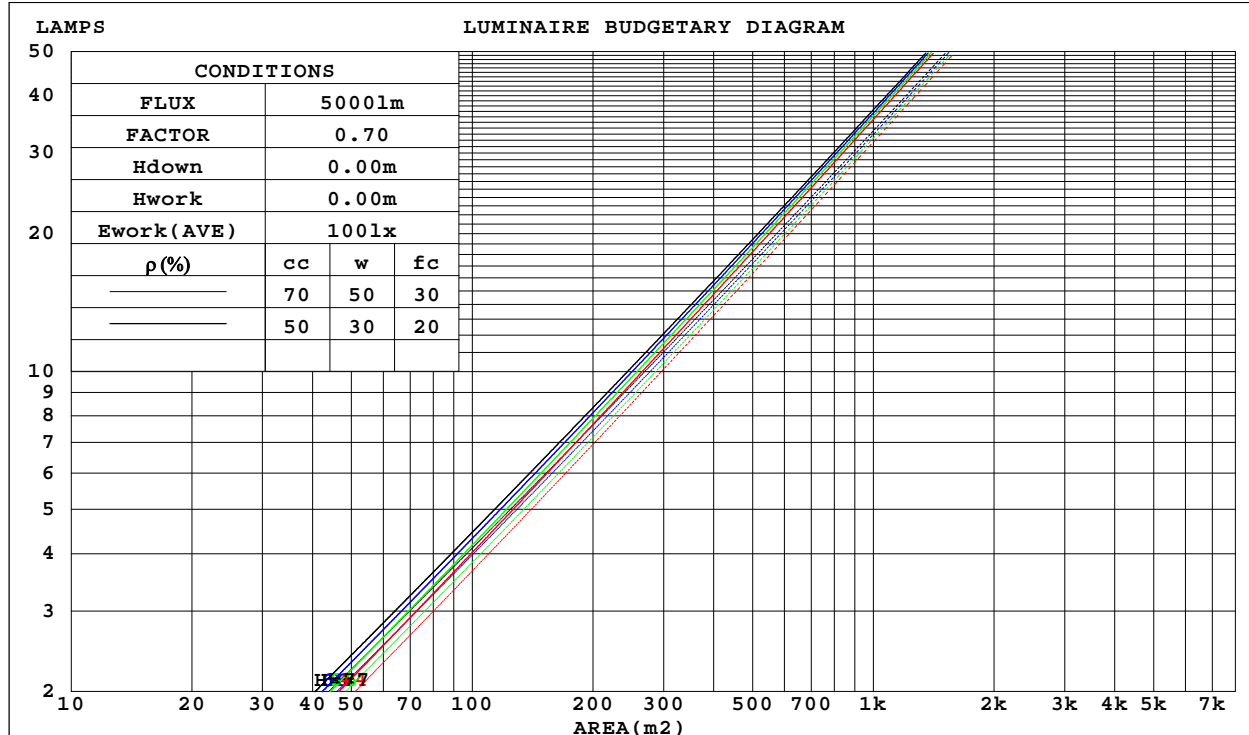
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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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	.93	.93	.93	.90	.90	.90	.86	.86	.86	.83	.83	.83	.79	.79	.79	.78
1.0	.88	.86	.85	.86	.85	.83	.83	.82	.81	.80	.79	.79	.77	.77	.76	.75
2.0	.83	.81	.79	.82	.80	.78	.80	.78	.76	.77	.76	.75	.75	.74	.73	.72
3.0	.80	.77	.74	.79	.76	.74	.77	.75	.73	.75	.73	.72	.73	.72	.71	.70
4.0	.76	.73	.71	.76	.73	.71	.74	.72	.70	.73	.71	.69	.71	.70	.68	.67
5.0	.74	.70	.68	.73	.70	.68	.72	.69	.67	.71	.68	.67	.69	.68	.66	.65
6.0	.71	.68	.66	.71	.68	.65	.70	.67	.65	.69	.66	.64	.68	.66	.64	.63
7.0	.69	.66	.63	.69	.65	.63	.68	.65	.63	.67	.64	.63	.66	.64	.62	.62
8.0	.67	.64	.62	.67	.64	.61	.66	.63	.61	.65	.63	.61	.65	.62	.61	.60
9.0	.65	.62	.60	.65	.62	.60	.64	.62	.60	.64	.61	.59	.63	.61	.59	.59
10.0	.64	.61	.58	.63	.60	.58	.63	.60	.58	.62	.60	.58	.62	.60	.58	.57



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WEC AND CCEC

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SPEC.:3000K	DIM.:	SERIAL No.:2303140311
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	.109	.062	.020	.104	.059	.019	.094	.054	.017	.085	.049	.016	.077	.045	.014		
2.0	.102	.056	.017	.098	.054	.017	.090	.050	.015	.082	.046	.014	.075	.043	.013		
3.0	.095	.051	.015	.091	.049	.015	.085	.046	.014	.079	.043	.013	.073	.040	.012		
4.0	.089	.046	.014	.086	.045	.013	.080	.043	.013	.075	.040	.012	.070	.038	.012		
5.0	.083	.042	.012	.081	.041	.012	.076	.040	.012	.072	.038	.011	.067	.036	.011		
6.0	.078	.039	.011	.076	.039	.011	.072	.037	.011	.068	.035	.010	.065	.034	.010		
7.0	.074	.037	.010	.072	.036	.010	.069	.035	.010	.065	.033	.010	.062	.032	.009		
8.0	.070	.034	.010	.069	.034	.010	.065	.033	.009	.062	.032	.009	.060	.031	.009		
9.0	.067	.032	.009	.065	.032	.009	.062	.031	.009	.060	.030	.009	.057	.029	.008		
10.0	.063	.030	.008	.062	.030	.008	.060	.029	.008	.057	.029	.008	.055	.028	.008		

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	.148	.148	.148	.127	.127	.127	.086	.086	.086	.050	.050	.050	.016	.016	.016		
1.0	.131	.123	.115	.112	.105	.099	.077	.072	.068	.044	.042	.040	.014	.013	.013		
2.0	.117	.103	.091	.100	.089	.079	.069	.061	.055	.040	.036	.032	.013	.012	.011		
3.0	.106	.088	.074	.091	.076	.064	.062	.053	.045	.036	.031	.027	.012	.010	.009		
4.0	.096	.076	.061	.082	.066	.053	.057	.046	.037	.033	.027	.022	.011	.009	.007		
5.0	.088	.067	.051	.076	.058	.044	.052	.040	.031	.030	.024	.019	.010	.008	.006		
6.0	.081	.059	.043	.070	.051	.038	.048	.036	.027	.028	.021	.016	.009	.007	.005		
7.0	.075	.053	.037	.064	.046	.032	.045	.032	.023	.026	.019	.014	.008	.006	.004		
8.0	.070	.047	.032	.060	.041	.028	.042	.029	.020	.024	.017	.012	.008	.006	.004		
9.0	.065	.043	.028	.056	.037	.024	.039	.026	.017	.023	.015	.010	.007	.005	.003		
10.0	.061	.039	.024	.053	.034	.021	.037	.024	.015	.021	.014	.009	.007	.005	.003		

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UGR(Unified Glare Rating) Table

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SPEC.:3000K						DIM.:		SERIAL No.:2303140311			
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	18.0	18.7	18.2	18.8	19.0	18.3	19.0	18.5	19.2	19.3	
	3H	18.1	18.7	18.3	18.9	19.1	18.4	19.0	18.6	19.2	19.4
	4H	18.0	18.6	18.2	18.8	19.0	18.3	18.9	18.6	19.1	19.3
	6H	17.9	18.5	18.2	18.7	18.9	18.2	18.8	18.5	19.0	19.3
	8H	17.9	18.4	18.1	18.6	18.9	18.2	18.7	18.5	19.0	19.2
	12H	17.8	18.3	18.1	18.6	18.9	18.2	18.7	18.5	18.9	19.2
4H	2H	18.1	18.7	18.3	18.9	19.1	18.4	19.0	18.6	19.2	19.4
	3H	18.1	18.7	18.4	18.9	19.2	18.5	19.0	18.8	19.2	19.5
	4H	18.0	18.5	18.4	18.8	19.1	18.4	18.8	18.7	19.1	19.4
	6H	17.9	18.4	18.3	18.7	19.0	18.3	18.7	18.6	19.0	19.4
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	12H	17.8	18.2	18.2	18.6	19.0	18.2	18.5	18.6	18.9	19.3
8H	4H	17.9	18.3	18.3	18.6	19.0	18.2	18.6	18.6	19.0	19.3
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12H	4H	17.8	18.2	18.3	18.6	19.0	18.2	18.5	18.6	18.9	19.3
	6H	17.7	18.0	18.2	18.4	18.9	18.0	18.3	18.5	18.8	19.2
	8H	17.7	17.9	18.1	18.4	18.8	18.0	18.2	18.4	18.7	19.1
Variations with the observer position at spacings:											
S = 1.0H	+ 1.2 / - 1.8					+ 1.3 / - 1.9					
1.5H	+ 1.3 / - 0.9					+ 1.8 / - 1.1					
2.0H	+ 1.8 / - 3.4					+ 2.0 / - 3.6					

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

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UTILIZATION FACTORS TABLE

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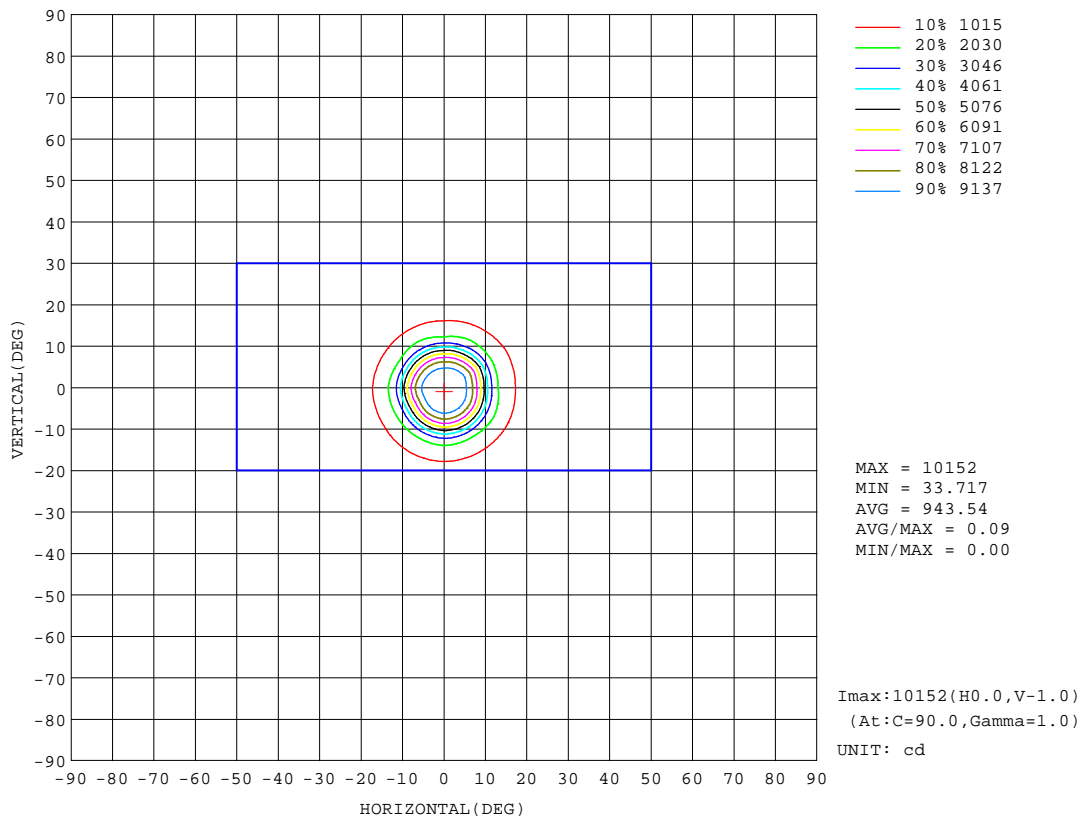
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	68	63	60	68	63	60	67	63	60	57
0.80	74	69	66	73	69	66	72	68	66	63
1.00	77	73	70	77	73	70	75	72	69	66
1.25	80	76	74	80	76	73	78	75	73	69
1.50	82	79	76	81	78	76	80	77	75	72
2.00	85	81	79	83	80	78	81	79	77	73
2.50	86	83	81	85	82	80	82	80	78	74
3.00	87	84	82	86	83	81	83	81	80	75
4.00	89	86	85	87	85	84	84	83	82	76
5.00	90	88	86	88	86	85	85	84	83	77
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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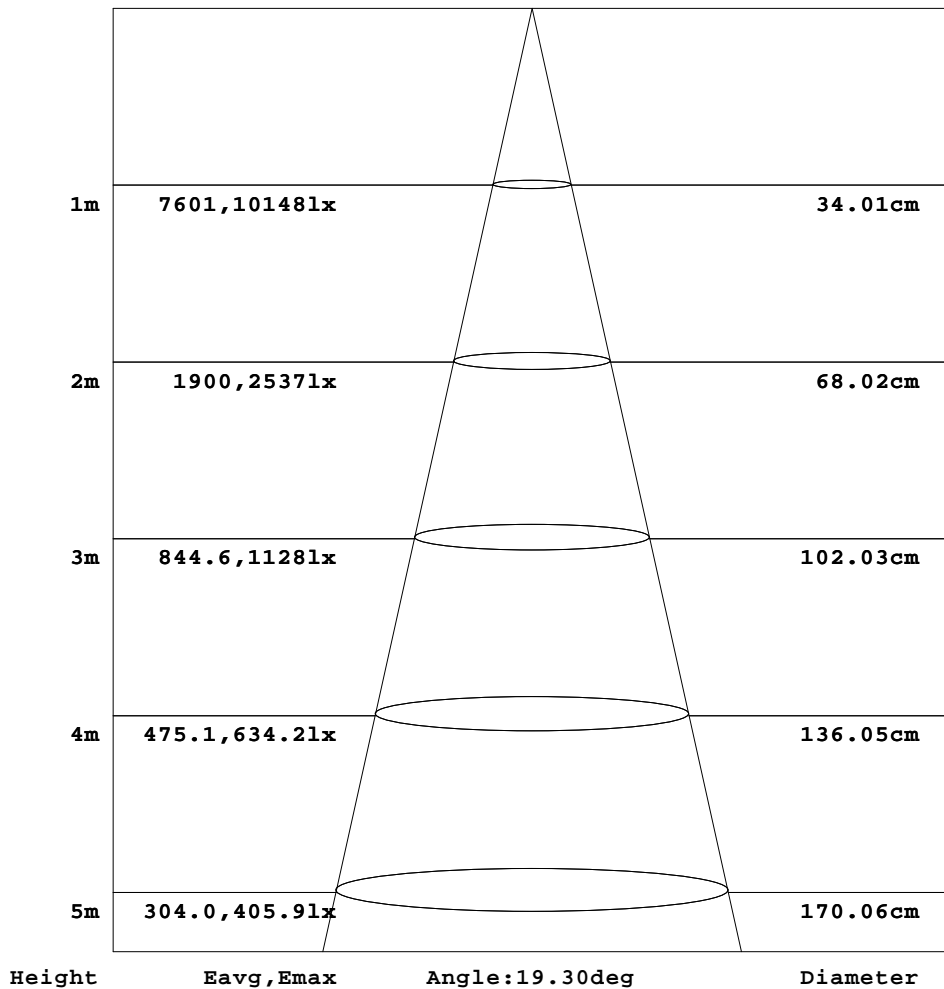
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Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:BXRE-30G1000-A-83 Ra:90
LENS: TH-YL5023H-15D 15R
DRIVER: RMS-20-500AS 500mA
30minutes warm-up

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.:2303140311
MFR.: RISE	SUR.:0.002826m2	Shielding Angle:

Flux out:742.5 lm



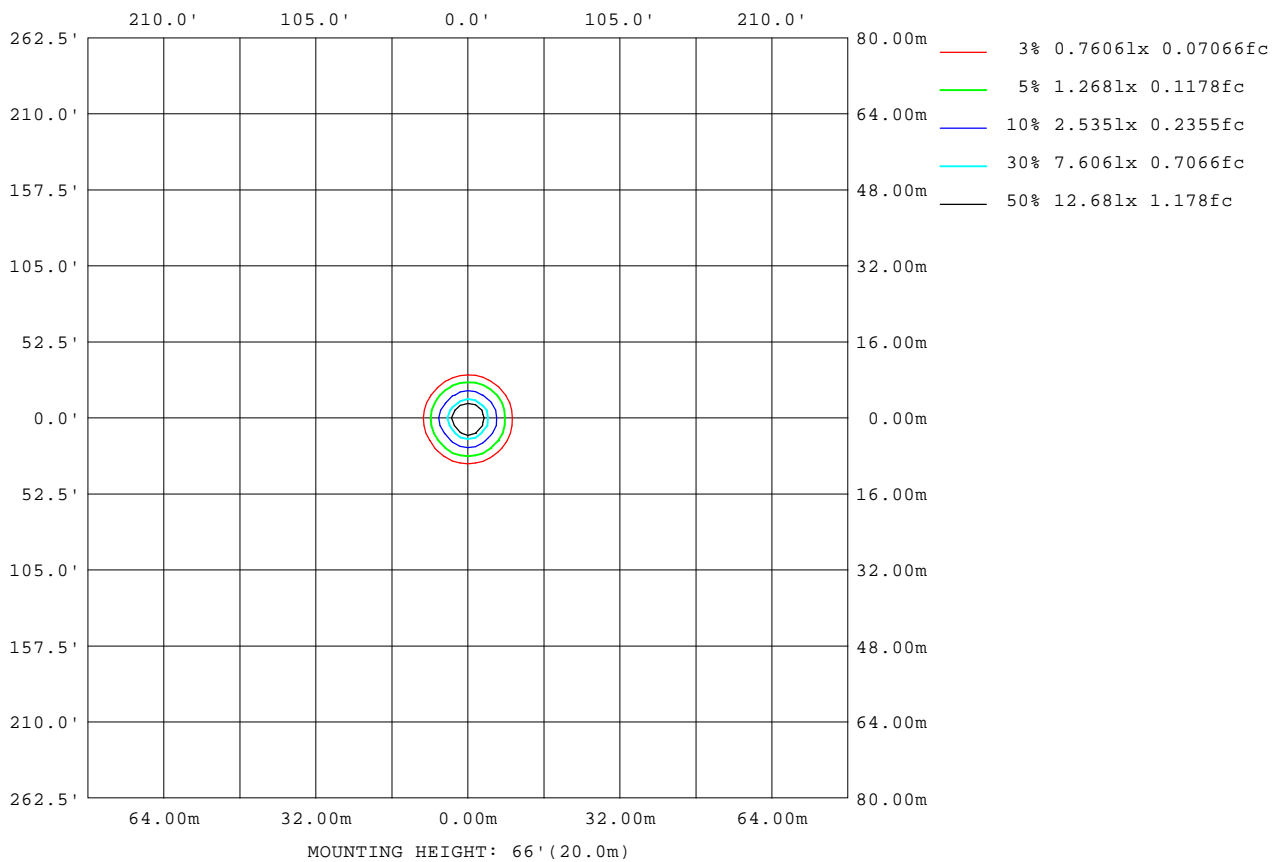
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

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-15D 15R
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.:2303140311
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-15D 15R
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.:2303140311
MFR.: RISE	SUR.:0.002826m2	Shielding Angle:

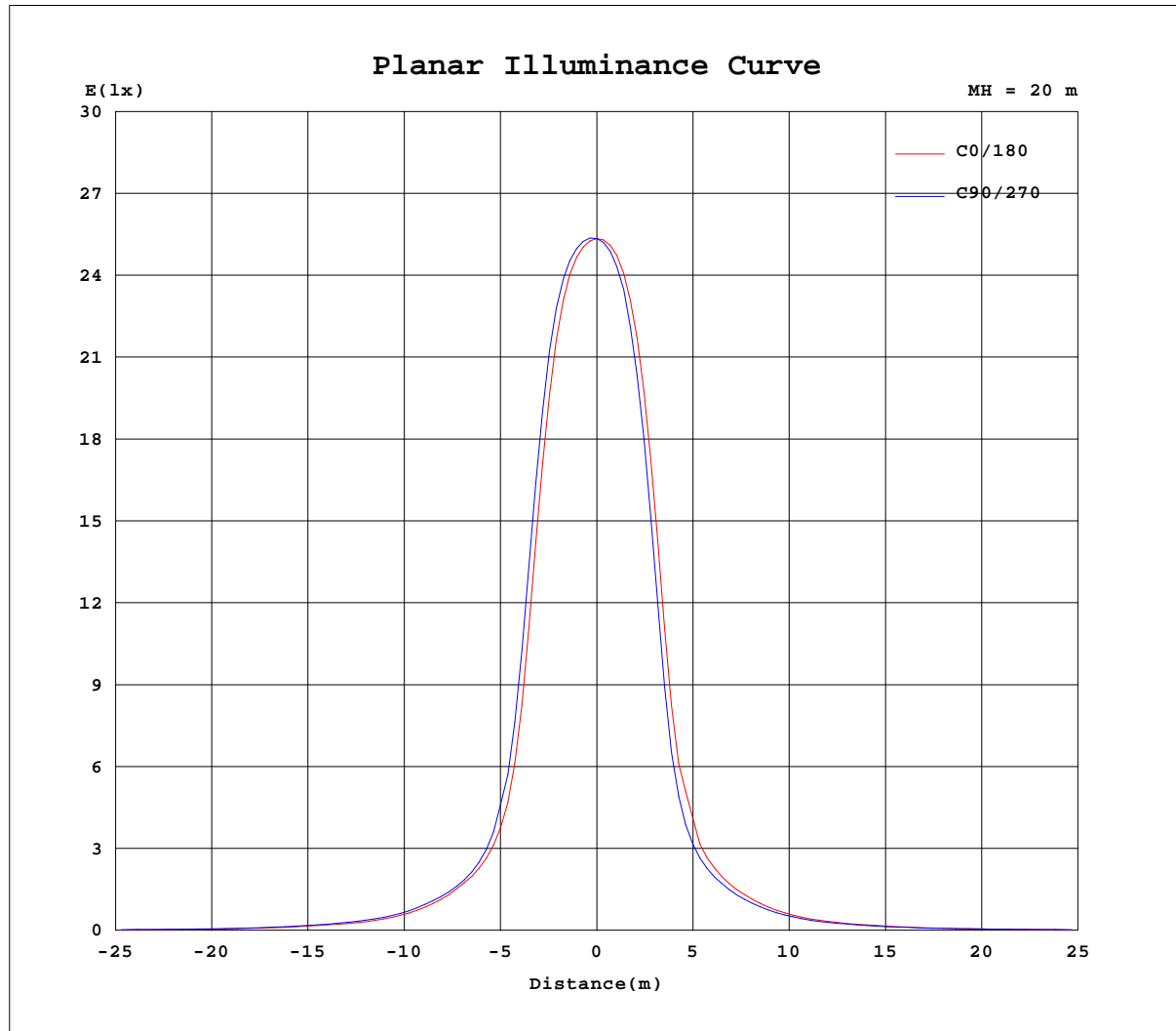
AvgL	cd/m2
L_0~180(65)av	10774
L_0~180(75)av	341
L_0~180(85)av	278
L_90~270(65)av	10773
L_90~270(75)av	361
L_90~270(85)av	231
L_45(65)av	10303
L_45(75)av	326
L_45(85)av	143

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-15D 15R
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-15D 15R
 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.:2303140311
MFR.: RISE	SUR.:0.002826m2	Shielding Angle:

Table--1

UNIT: x10cd

C(DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	1014	1014	1014	1014	1014	1014	1014	1014	1014	1014	1014	1014						
5	933	952	962	965	952	930	935	911	900	896	918	943						
10	464	522	551	558	506	440	464	408	384	374	419	491						
15	139	150	155	161	150	138	141	125	120	118	129	142						
20	73.9	76.8	78.6	78.4	76.8	71.7	72.5	66.6	64.5	63.3	67.7	74.4						
25	40.2	43.4	44.1	45.0	43.1	40.4	40.5	37.4	36.3	35.5	37.4	40.0						
30	22.9	25.2	25.8	26.5	25.4	23.8	23.4	22.1	21.8	21.0	22.2	22.8						
35	15.1	16.6	16.9	17.4	16.8	15.6	15.1	14.5	14.1	13.8	14.4	14.9						
40	9.73	10.6	11.0	11.3	10.8	10.1	9.91	9.43	9.15	9.04	9.47	9.75						
45	6.88	7.21	7.38	7.62	7.44	7.07	7.03	6.72	6.52	6.59	6.82	6.94						
50	5.52	5.62	5.74	5.95	5.76	5.37	5.46	5.06	5.02	5.20	5.40	5.49						
55	3.97	4.01	4.07	4.24	4.09	3.90	3.92	3.65	3.61	3.72	3.89	4.01						
60	2.46	2.48	2.51	2.64	2.50	2.33	2.39	2.16	2.15	2.24	2.39	2.52						
65	1.30	1.28	1.28	1.39	1.30	1.22	1.27	1.13	1.11	1.19	1.25	1.32						
70	0.53	0.53	0.54	0.59	0.53	0.47	0.49	0.40	0.39	0.43	0.48	0.55						
75	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03						
80	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.00	0.00						
85	0.01	0.00	0.01	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00						
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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Operators:Zoe
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γ Range: 0 - 180DEG
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