

Luminaire Photograph



Light Output Ratio:	93.0%	
Luminaire Power:	14.35 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.60	fine grid method.

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

Range: 0 - 180DEG
 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-36D 36R
 DRIVER: RMS-15-350AS 350mA
 30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

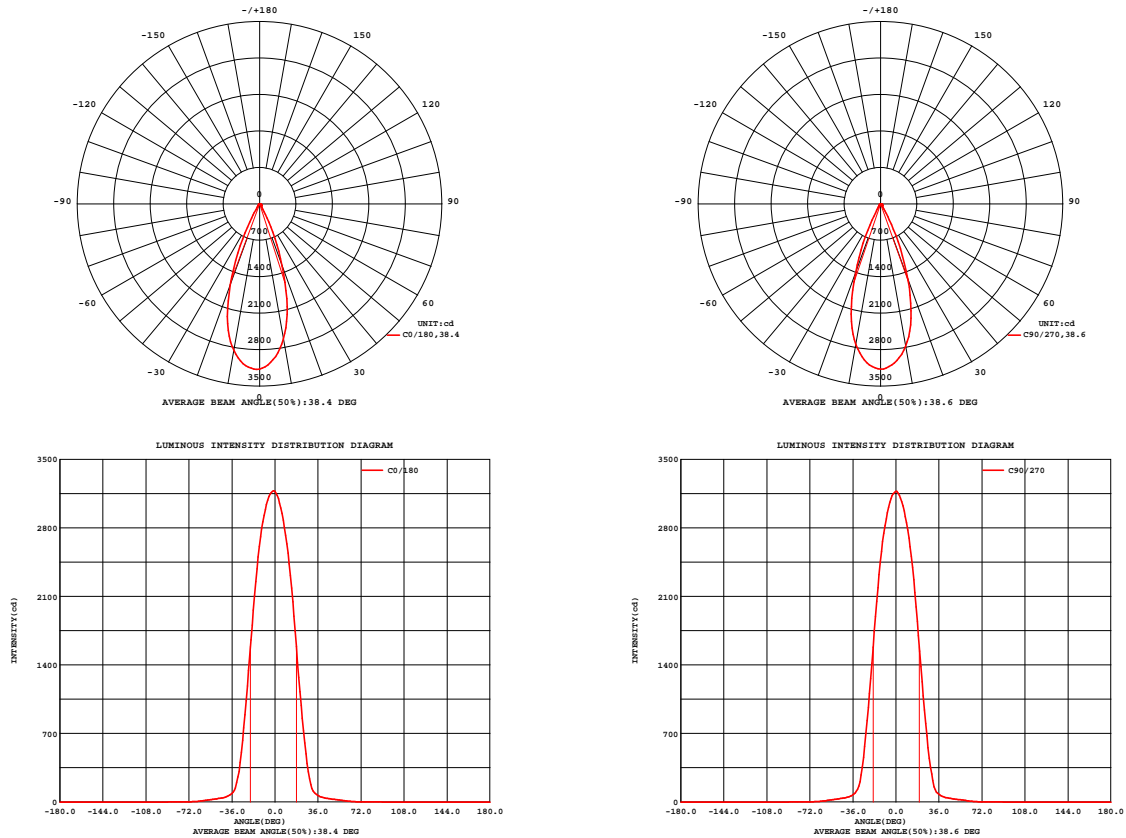


Fig. C0/C180

Fig. C90/C270

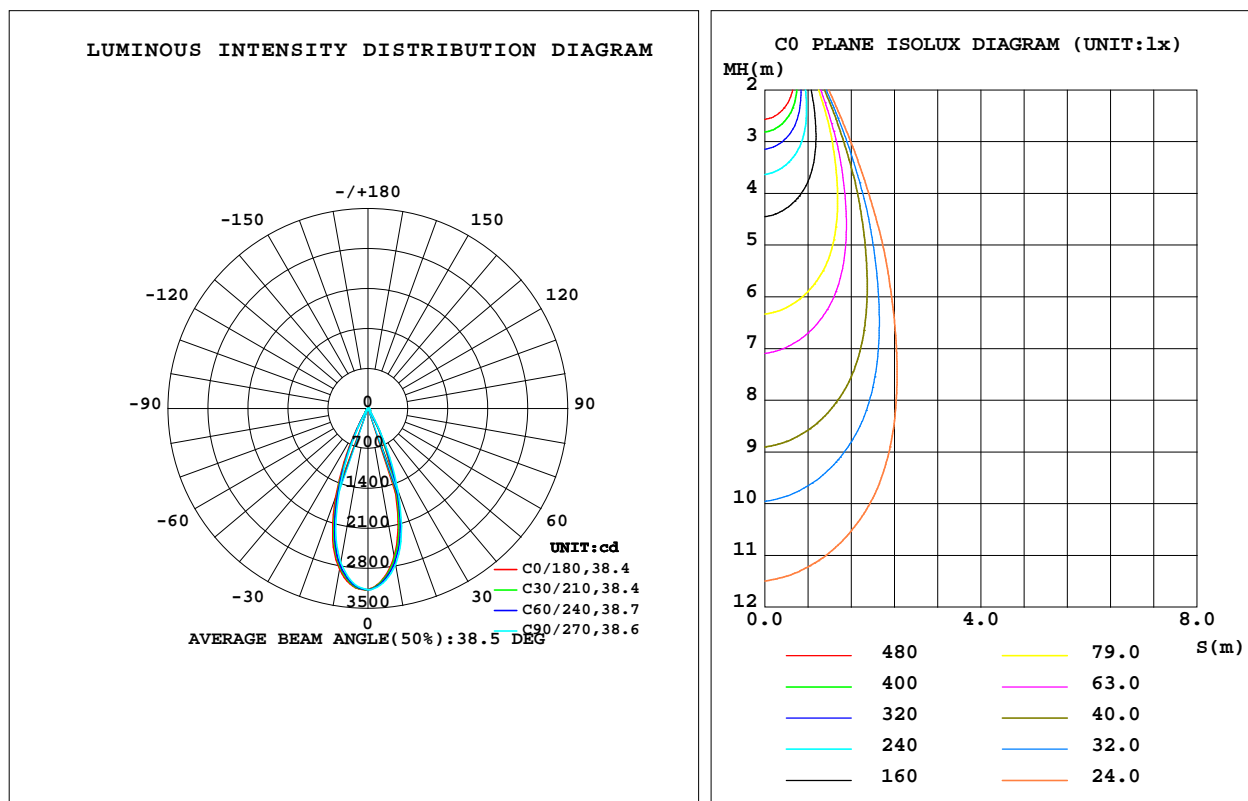
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LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.29V I:0.0679A P:14.349W PF:0.9559 Freq:49.99Hz Lamp Flux:1442.6x1 lm					
NAME: 2319.200-AD3-350			TYPE:		WEIGHT:
SPEC.:3000K			DIM.:		SERIAL No.:2303140317
MFR.: RISE			SUR.:0.002826m2		Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 93.54 lm/W
MODEL	Bridgelux	I _{max} (cd)	3178	S/MH(C0/180)	0.63	
NOMINAL POWER(W)	14	LOR(%)	93.0	S/MH(C90/270)	0.59	
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	1342.2	UP,DN(C0-180)	0.0,46.0	
NOMINAL FLUX(lm)	1442.6	CIE CLASS	DIRECT	UP,DN(C180-360)	0.0,47.0	
LAMPS INSIDE	1	up(%)	0.0	CIBSE SHR NOM	0.50	
TEST VOLTAGE(V)	220	down(%)	93.0	CIBSE SHR MAX	0.60	



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ZONAL FLUX DIAGRAM

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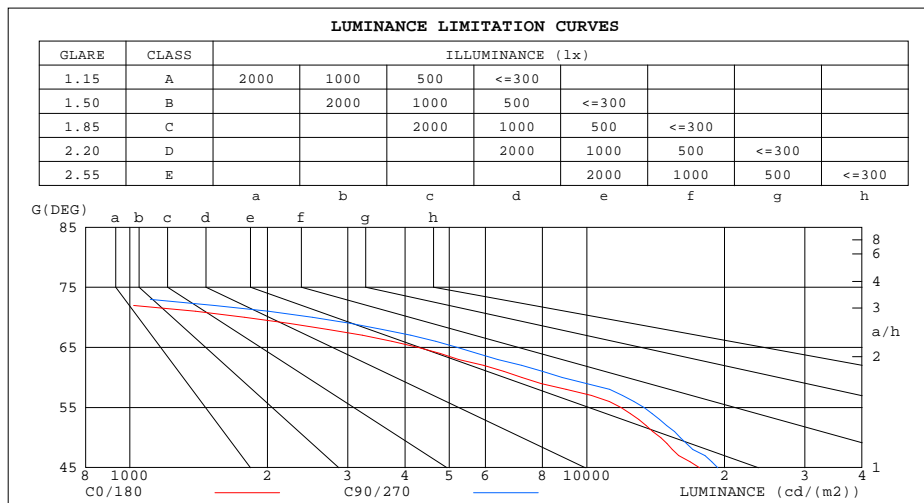
	C0	C45	C90	C135	C180	C225	C270	C315		zone	total	%lum,lamp
10	2636	2700	2776	2790	2862	2808	2744	2709	0- 10	282.3	282.3	21,19.6
20	1272	1406	1540	1539	1655	1541	1418	1393	10- 20	598.4	880.7	65.6,61
30	178.6	228.1	287.2	261.4	312.1	261.6	207.7	214.3	20- 30	343.3	1224	91.2,84.8
40	46.18	50.42	52.99	52.86	56.68	55.04	51.02	48.67	30- 40	63.34	1287	95.9,89.2
50	26.37	28.13	29.10	28.66	30.12	30.06	28.80	27.82	40- 50	29.61	1317	98.1,91.3
60	10.19	11.35	12.48	12.13	13.27	12.17	11.27	11.11	50- 60	18.50	1335	99.5,92.6
70	1.726	2.180	2.427	2.406	2.729	2.437	2.044	2.108	60- 70	6.111	1342	100,93
80	0.0569	0.0481	0.0514	0.0389	0.0444	0.0308	0.0373	0.0284	70- 80	0.6058	1342	100,93
90	0	0	0	0	0	0	0	0	80- 90	0.0345	1342	100,93
100	0	0	0	0	0	0	0	0	90-100	0	1342	100,93
110	0	0	0	0	0	0	0	0	100-110	0	1342	100,93
120	0	0	0	0	0	0	0	0	110-120	0	1342	100,93
130	0	0	0	0	0	0	0	0	120-130	0	1342	100,93
140	0	0	0	0	0	0	0	0	130-140	0	1342	100,93
150	0	0	0	0	0	0	0	0	140-150	0	1342	100,93
160	0	0	0	0	0	0	0	0	150-160	0	1342	100,93
170	0	0	0	0	0	0	0	0	160-170	0	1342	100,93
180	0	0	0	0	0	0	0	0	170-180	0	1342	100,93
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.416
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
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DRIVER: RMS-15-350AS 350mA
30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:220.29V I:0.0679A P:14.349W PF:0.9559 Freq:49.99Hz Lamp Flux:1442.6x1 lm		
NAME: 2319.200-AD3-350	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2303140317
MFR.: RISE	SUR.:0.002826m2	Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	192	190
80	116	105
75	140	284
70	1785	2512
65	4275	5204
60	7207	8834
55	11880	13360
50	14510	16020
45	17644	19353

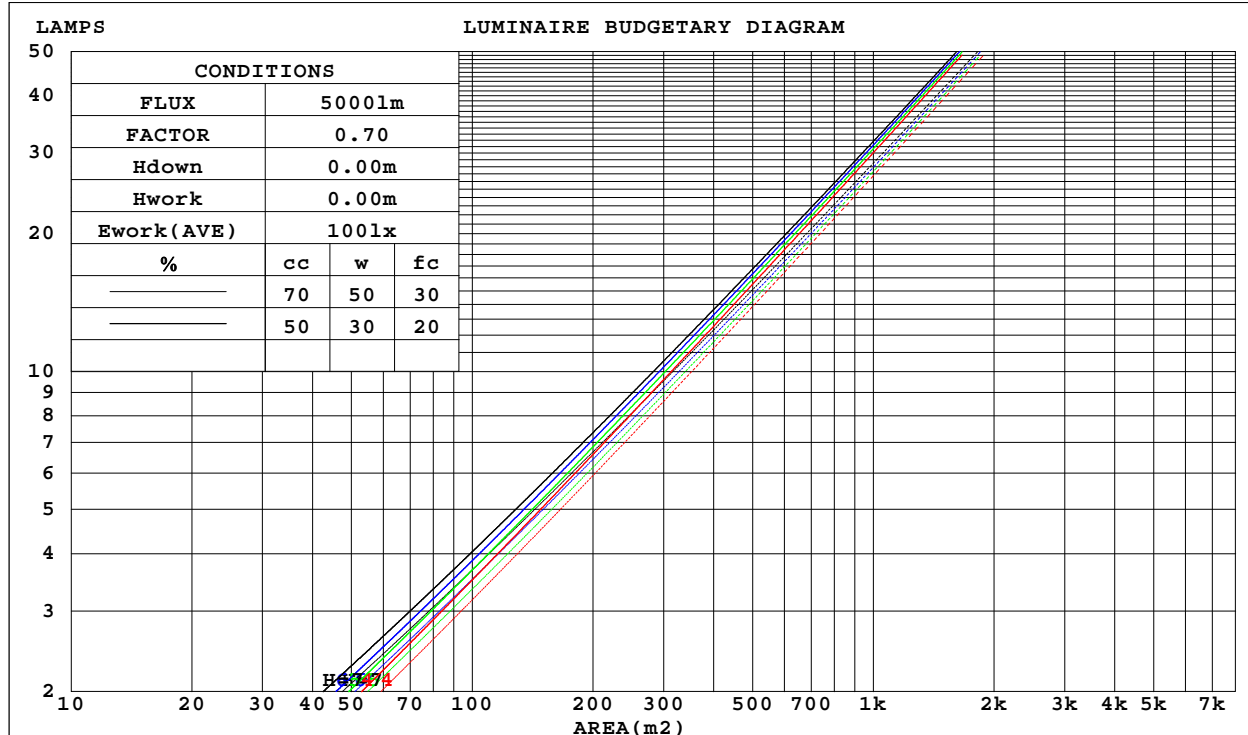
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.:3000K	DIM.:	SERIAL No.:2303140317
MFR.: RISE	SUR.:0.002826m2	Shielding Angle:

cc	80%			70%			50%			30%			10%			0
w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															



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WEC AND CCEC

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NAME: 2319.200-AD3-350	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2303140317
MFR.: RISE	SUR.:0.002826m2	Shielding Angle:

cc	80%			70%			50%			30%			10%			0
w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio Wall Exitance Coefficients(WEC)															
0.0																
1.0	.143	.081	.026	.136	.078	.025	.125	.072	.023	.114	.066	.021	.104	.061	.020	
2.0	.134	.074	.023	.129	.071	.022	.119	.066	.021	.111	.062	.019	.102	.058	.018	
3.0	.126	.067	.020	.122	.065	.020	.114	.062	.019	.106	.058	.018	.099	.055	.017	
4.0	.119	.062	.018	.116	.061	.018	.109	.058	.017	.102	.055	.017	.096	.052	.016	
5.0	.113	.058	.017	.110	.056	.016	.104	.054	.016	.098	.052	.015	.093	.050	.015	
6.0	.108	.054	.015	.105	.053	.015	.100	.051	.015	.095	.049	.014	.090	.048	.014	
7.0	.103	.051	.014	.100	.050	.014	.096	.048	.014	.091	.047	.014	.087	.045	.013	
8.0	.098	.048	.013	.096	.047	.013	.092	.046	.013	.088	.045	.013	.085	.043	.013	
9.0	.094	.045	.013	.092	.045	.013	.088	.044	.012	.085	.043	.012	.082	.042	.012	
10.0	.090	.043	.012	.088	.043	.012	.085	.042	.012	.082	.041	.012	.079	.040	.011	

cc	80%			70%			50%			30%			10%			0
w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio Ceiling Cavity Exitance Coefficients(CCEC)															
0.0	.177	.177	.177	.151	.151	.151	.103	.103	.103	.059	.059	.059	.019	.019	.019	
1.0	.158	.147	.137	.135	.126	.118	.092	.087	.081	.053	.050	.047	.017	.016	.015	
2.0	.142	.123	.108	.122	.106	.093	.083	.073	.065	.048	.043	.038	.015	.014	.012	
3.0	.129	.105	.087	.111	.091	.075	.076	.063	.053	.044	.037	.031	.014	.012	.010	
4.0	.118	.091	.071	.101	.079	.062	.070	.055	.043	.040	.032	.026	.013	.011	.008	
5.0	.109	.080	.059	.094	.069	.051	.065	.049	.036	.037	.028	.021	.012	.009	.007	
6.0	.101	.071	.050	.087	.062	.043	.060	.043	.031	.035	.025	.018	.011	.008	.006	
7.0	.095	.064	.042	.082	.055	.037	.056	.039	.026	.033	.023	.015	.011	.007	.005	
8.0	.089	.058	.036	.077	.050	.032	.053	.035	.022	.031	.021	.013	.010	.007	.004	
9.0	.084	.053	.031	.072	.046	.027	.050	.032	.019	.029	.019	.012	.009	.006	.004	
10.0	.080	.048	.028	.069	.042	.024	.048	.030	.017	.028	.017	.010	.009	.006	.003	

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30minutes warm-up

UGR(Unified Glare Rating) Table

Test:U:220.29V I:0.0679A P:14.349W PF:0.9559 Freq:49.99Hz Lamp Flux:1442.6x1 lm											
NAME: 2319.200-AD3-350						TYPE:		WEIGHT:			
SPEC.:3000K						DIM.:		SERIAL No.:2303140317			
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		13.6	14.4	13.8	14.5	14.7	14.3	15.1	14.5	15.2	15.4
	3H	13.6	14.3	13.8	14.5	14.7	14.3	15.0	14.5	15.2	15.4
	4H	13.5	14.2	13.8	14.4	14.6	14.2	14.9	14.5	15.1	15.3
	6H	13.4	14.0	13.7	14.3	14.5	14.1	14.8	14.4	15.0	15.2
	8H	13.4	14.0	13.7	14.2	14.5	14.1	14.7	14.4	14.9	15.2
	12H	13.3	13.9	13.6	14.2	14.4	14.0	14.6	14.3	14.9	15.2
4H	2H	13.7	14.3	13.9	14.5	14.8	14.3	15.0	14.6	15.2	15.4
	3H	13.6	14.2	13.9	14.5	14.7	14.3	14.9	14.6	15.1	15.4
	4H	13.5	14.1	13.9	14.4	14.7	14.2	14.7	14.5	15.0	15.3
	6H	13.4	13.9	13.8	14.2	14.6	14.1	14.6	14.5	14.9	15.2
	8H	13.4	13.8	13.8	14.2	14.5	14.0	14.5	14.4	14.8	15.2
	12H	13.3	13.7	13.7	14.1	14.5	14.0	14.4	14.4	14.8	15.1
8H	4H	13.4	13.8	13.8	14.2	14.5	14.0	14.5	14.4	14.8	15.2
	6H	13.3	13.6	13.7	14.0	14.4	13.9	14.3	14.4	14.7	15.1
	8H	13.2	13.5	13.7	14.0	14.4	13.9	14.2	14.3	14.6	15.1
	12H	13.2	13.4	13.6	13.9	14.3	13.8	14.1	14.3	14.5	15.0
12H	4H	13.3	13.7	13.7	14.1	14.5	14.0	14.4	14.4	14.8	15.2
	6H	13.2	13.5	13.7	14.0	14.4	13.9	14.2	14.3	14.6	15.1
	8H	13.2	13.4	13.6	13.9	14.3	13.8	14.1	14.3	14.5	15.0
Variations with the observer position at spacings:											
S = 1.0H		+ 1.2 / - 1.9					+ 1.3 / - 1.8				
1.5H		+ 1.0 / - 0.8					+ 1.6 / - 1.1				
2.0H		+ 2.2 / - 4.0					+ 2.2 / - 4.0				

CIE Pub.117, 1443 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 1.3)
Area: 0.002826 m2

C Range: 0 - 360DEG
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30minutes warm-up

UTILIZATION FACTORS TABLE

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NAME: 2319.200-AD3-350	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2303140317
MFR.: RISE	SUR.:0.002826m2	Shielding Angle:

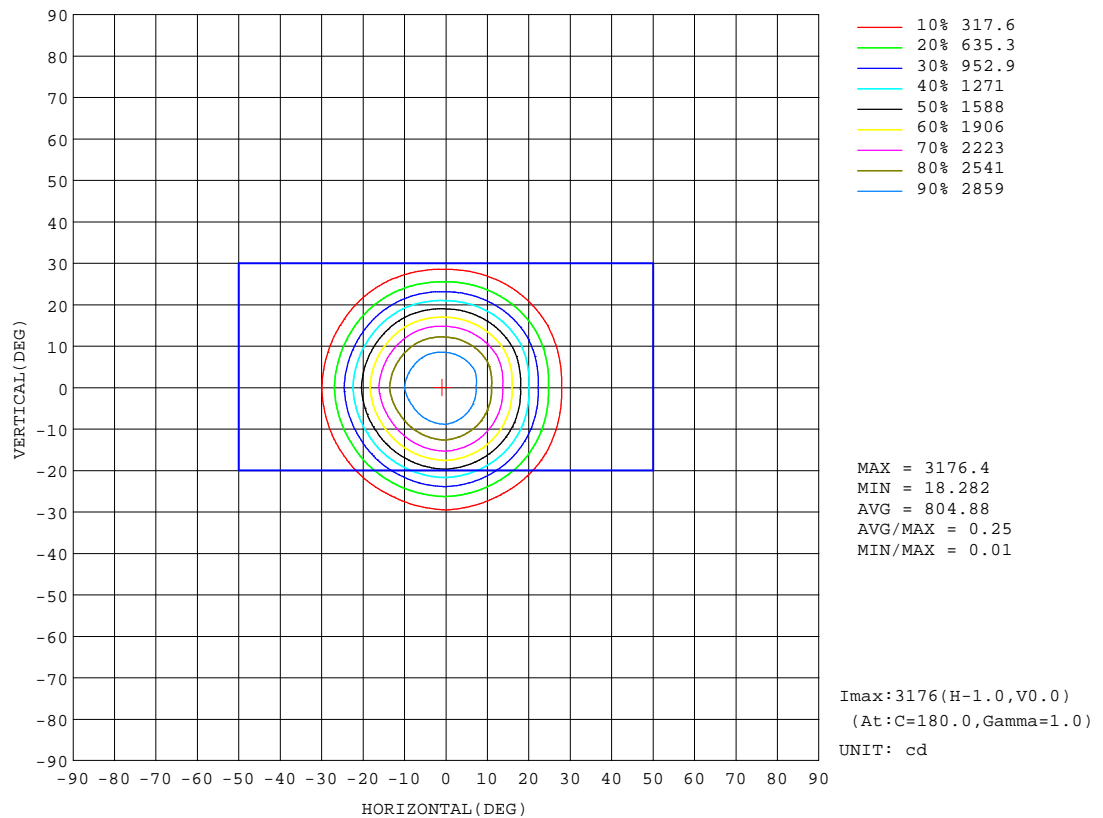
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	83	77	74	82	77	74	82	77	74	70
0.80	89	84	81	89	84	81	88	83	81	77
1.00	93	88	85	93	88	85	91	88	84	81
1.25	97	92	89	96	92	89	94	91	88	84
1.50	99	95	92	98	94	92	96	93	91	87
2.00	102	98	95	100	97	94	98	95	93	88
2.50	103	100	97	102	99	96	99	96	94	89
3.00	104	101	99	103	100	98	100	98	96	90
4.00	106	104	102	104	102	101	101	99	98	92
5.00	107	105	104	105	104	102	102	100	99	92
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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SPEC.:3000K	DIM.:	SERIAL No.:2303140317
MFR.: RISE	SUR.:0.002826m2	Shielding Angle:



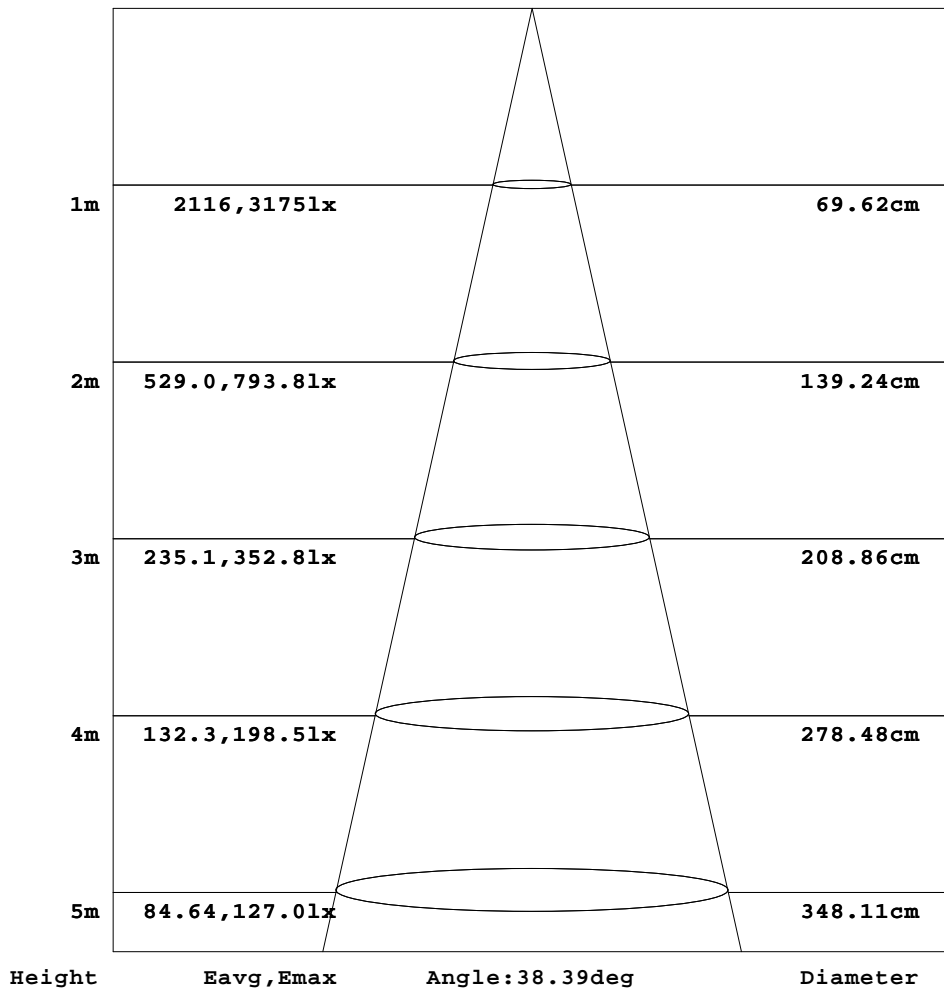
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AAI Figure

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SPEC.:3000K	DIM.:	SERIAL No.:2303140317
MFR.: RISE	SUR.:0.002826m2	Shielding Angle:

Flux out:880.7 lm



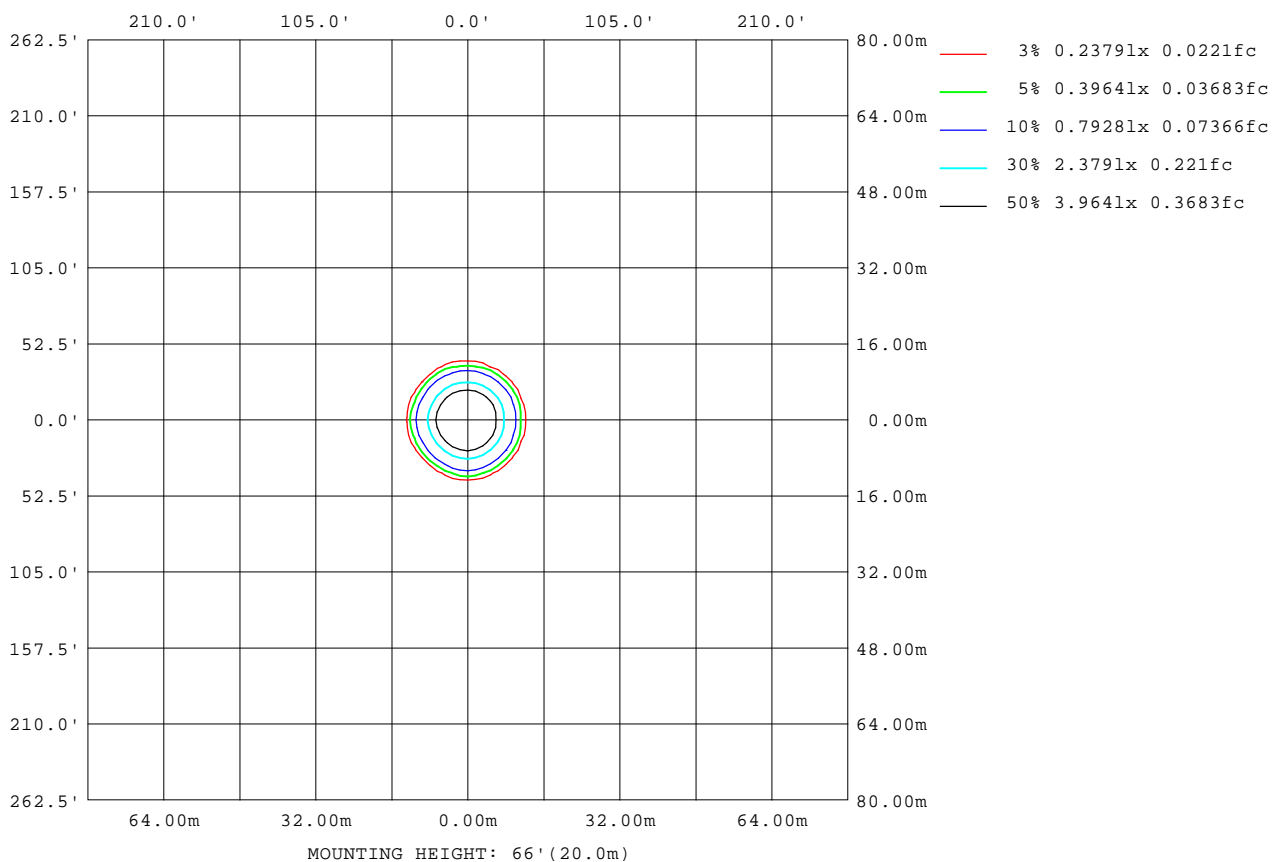
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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SPEC.:3000K	DIM.:	SERIAL No.:2303140317
MFR.: RISE	SUR.:0.002826m2	Shielding Angle:



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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: TH-YL5023H-36D 36R
DRIVER: RMS-15-350AS 350mA
30minutes warm-up

LED Avg.L Report

Test:U:220.29V I:0.0679A P:14.349W PF:0.9559 Freq:49.99Hz Lamp Flux:1442.6x1 lm		
NAME: 2319.200-AD3-350	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2303140317
MFR.: RISE	SUR.:0.002826m2	Shielding Angle:

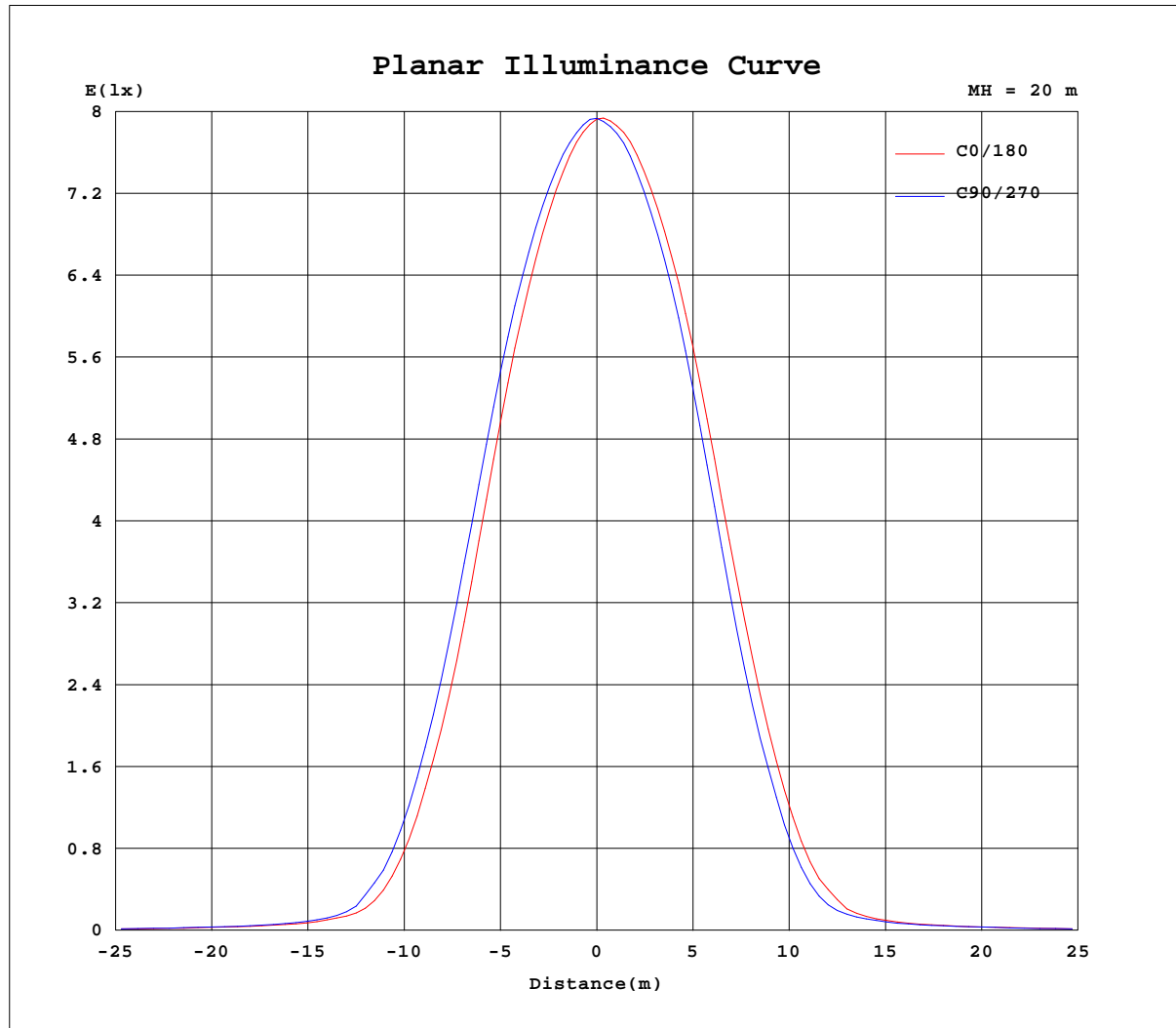
AvgL	cd/m2
L_0~180(65)av	4850
L_0~180(75)av	353
L_0~180(85)av	178
L_90~270(65)av	4921
L_90~270(75)av	202
L_90~270(85)av	164
L_45(65)av	4888
L_45(75)av	182
L_45(85)av	104

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

Range: 0 - 180DEG
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-36D 36R
DRIVER: RMS-15-350AS 350mA
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

Range: 0 - 180DEG
 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-36D 36R
 DRIVER: RMS-15-350AS 350mA
 30minutes warm-up



LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.29V I:0.0679A P:14.349W PF:0.9559 Freq:49.99Hz Lamp Flux:1442.6x1 lm		
NAME: 2319.200-AD3-350	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2303140317
MFR.: RISE	SUR.:0.002826m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	3173	3173	3173	3173	3173	3173	3173	3173	3173	3173	3173	3173						
5	3001	3017	3041	3068	3074	3082	3119	3102	3085	3060	3044	3034						
10	2636	2674	2725	2776	2782	2799	2862	2824	2792	2744	2715	2704						
15	2045	2115	2198	2271	2265	2283	2382	2316	2268	2189	2158	2145						
20	1272	1363	1450	1540	1525	1552	1655	1568	1514	1418	1400	1387						
25	601	670	732	802	790	804	892	815	759	701	690	692						
30	179	223	233	287	246	277	312	262	261	208	220	209						
35	76.1	80.1	87.3	89.7	89.9	91.8	101	93.8	89.6	83.8	77.7	79.4						
40	46.2	49.3	51.5	53.0	51.9	53.8	56.7	55.9	54.2	51.0	48.9	48.4						
45	35.3	36.5	38.1	38.7	37.9	39.0	40.1	40.4	40.2	38.3	37.0	36.7						
50	26.4	27.7	28.5	29.1	28.5	28.8	30.1	30.2	29.9	28.8	28.1	27.5						
55	19.3	20.2	21.1	21.7	21.3	21.5	22.7	22.4	22.2	21.1	20.8	20.3						
60	10.2	10.9	11.8	12.5	12.2	12.1	13.3	12.3	12.0	11.3	11.2	11.0						
65	5.11	5.45	5.91	6.21	6.14	6.00	6.48	6.10	5.90	5.54	5.64	5.56						
70	1.73	2.08	2.27	2.43	2.42	2.39	2.73	2.56	2.32	2.04	2.13	2.08						
75	0.10	0.10	0.13	0.21	0.18	0.20	0.41	0.23	0.12	0.09	0.08	0.09						
80	0.06	0.04	0.05	0.05	0.04	0.04	0.04	0.03	0.03	0.04	0.03	0.03						
85	0.05	0.03	0.04	0.05	0.03	0.03	0.04	0.03	0.02	0.03	0.02	0.02						
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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