

Luminaire Photograph



Light Output Ratio:	82.8%	
Luminaire Power:	14.35 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

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

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

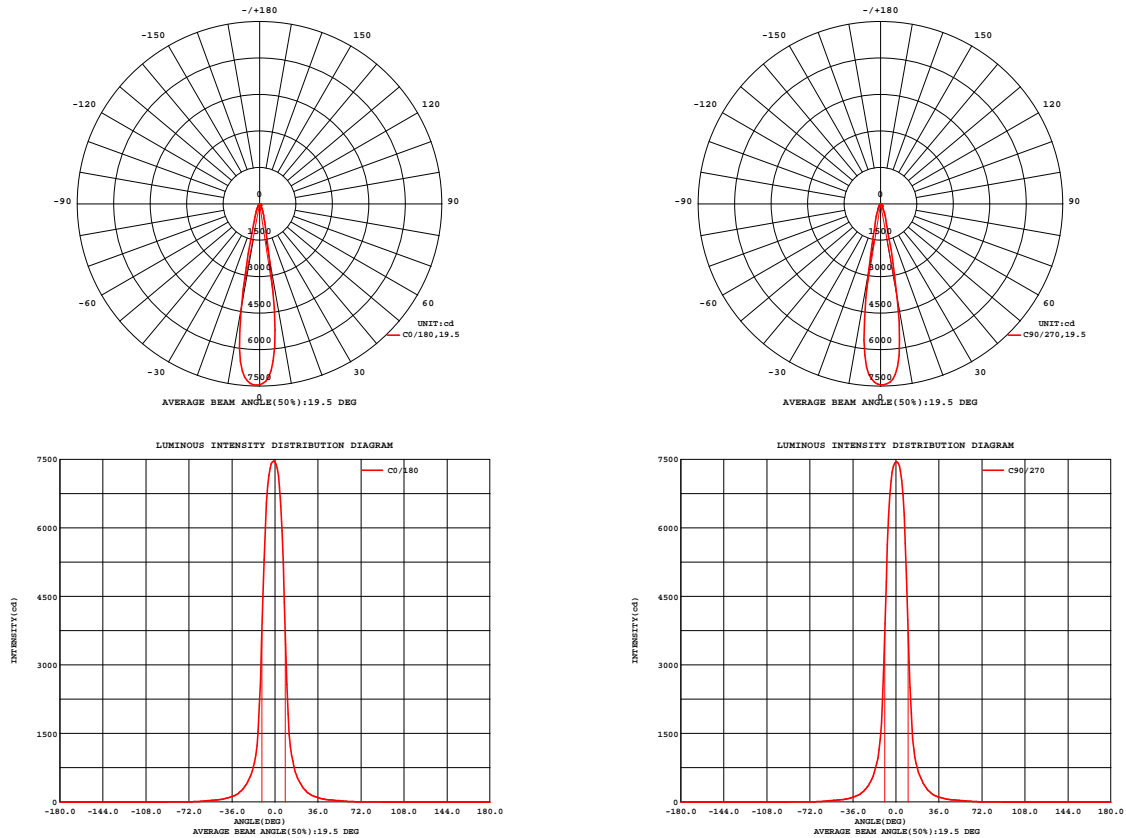


Fig. C0/C180

Fig. C90/C270

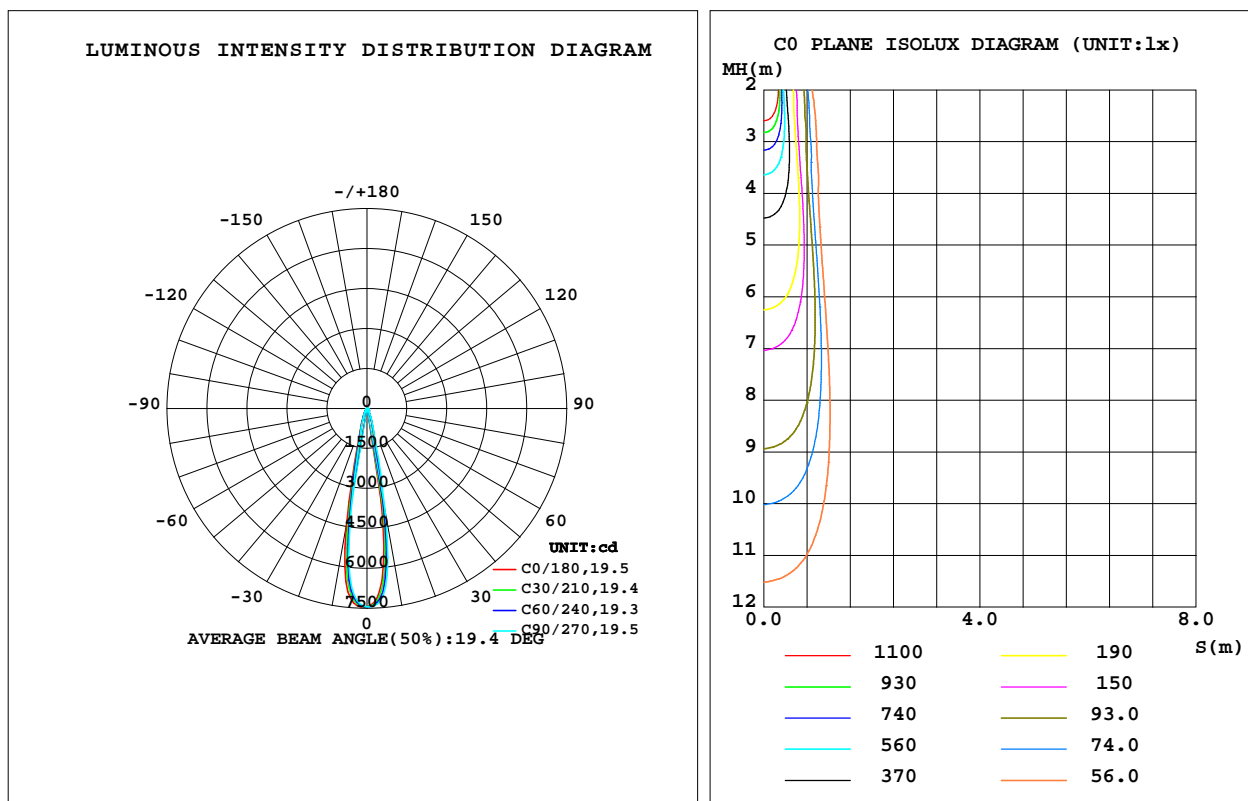
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LUMINAIRE PHOTOMETRIC TEST REPORT

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.:2303140315	
MFR.: RISE		SUR.:0.002826m2		Shielding Angle:	

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 83.28 lm/W
MODEL	Bridgelux	I _{max} (cd)	7461	S/MH(C0/180)	0.33	
NOMINAL POWER(W)	14	LOR(%)	82.8	S/MH(C90/270)	0.29	
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	1194.9	UP,DN(C0-180)	0.0,41.1	
NOMINAL FLUX(lm)	1442.6	CIE CLASS	DIRECT	UP,DN(C180-360)	0.0,41.8	
LAMPS INSIDE	1	up(%)	0.0	CIBSE SHR NOM	0.00	
TEST VOLTAGE(V)	220	down(%)	82.8	CIBSE SHR MAX	1.00	



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ZONAL FLUX DIAGRAM

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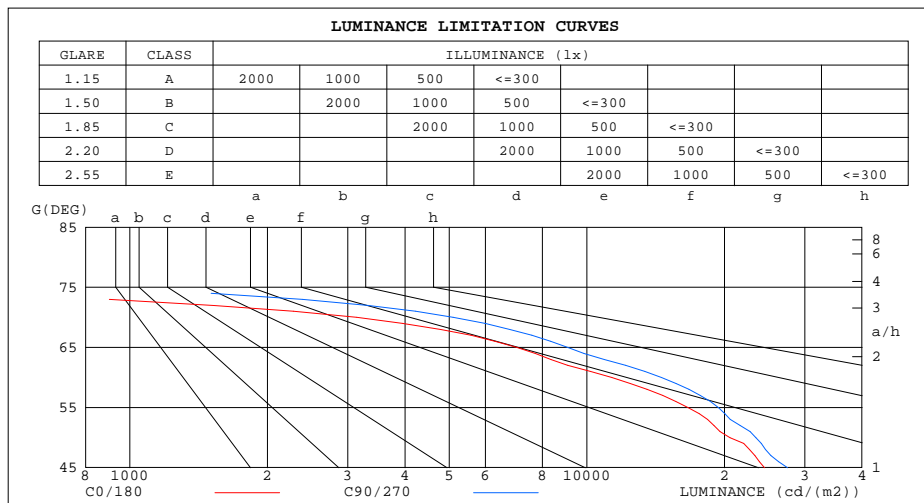
	C0	C45	C90	C135	C180	C225	C270	C315		zone	total	%lum,lamp
10	2570	3281	3978	3772	4462	3598	3004	3249	0- 10	548.0	548.0	45.9,38
20	473.5	523.5	584.4	562.5	598.6	541.7	506.5	523.2	10- 20	347.9	895.9	75,62.1
30	160.4	172.3	183.7	180.3	203.4	184.7	172.1	172.6	20- 30	144.6	1041	87.1,72.1
40	68.98	74.13	78.58	77.07	85.37	80.28	74.99	73.92	30- 40	73.92	1114	93.3,77.3
50	37.40	41.66	42.58	41.94	43.53	43.14	39.60	40.95	40- 50	42.57	1157	96.8,80.2
60	16.06	18.97	20.58	19.24	20.54	19.13	17.43	17.73	50- 60	26.56	1184	99.1,82
70	3.037	4.151	4.928	4.482	4.979	4.228	3.785	3.776	60- 70	10.20	1194	99.9,82.8
80	0.0740	0.0605	0.0724	0.0508	0.0570	0.0382	0.0518	0.0371	70- 80	1.095	1195	100,82.8
90	0	0	0	0	0	0	0	0	80- 90	0.0407	1195	100,82.8
100	0	0	0	0	0	0	0	0	90-100	0	1195	100,82.8
110	0	0	0	0	0	0	0	0	100-110	0	1195	100,82.8
120	0	0	0	0	0	0	0	0	110-120	0	1195	100,82.8
130	0	0	0	0	0	0	0	0	120-130	0	1195	100,82.8
140	0	0	0	0	0	0	0	0	130-140	0	1195	100,82.8
150	0	0	0	0	0	0	0	0	140-150	0	1195	100,82.8
160	0	0	0	0	0	0	0	0	150-160	0	1195	100,82.8
170	0	0	0	0	0	0	0	0	160-170	0	1195	100,82.8
180	0	0	0	0	0	0	0	0	170-180	0	1195	100,82.8
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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 Temperature:25.3DEG
 Operators:Zoe
 Test Date:2023-3-14

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 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.:2303140315
MFR.: RISE	SUR.:0.002826m2	Shielding Angle:



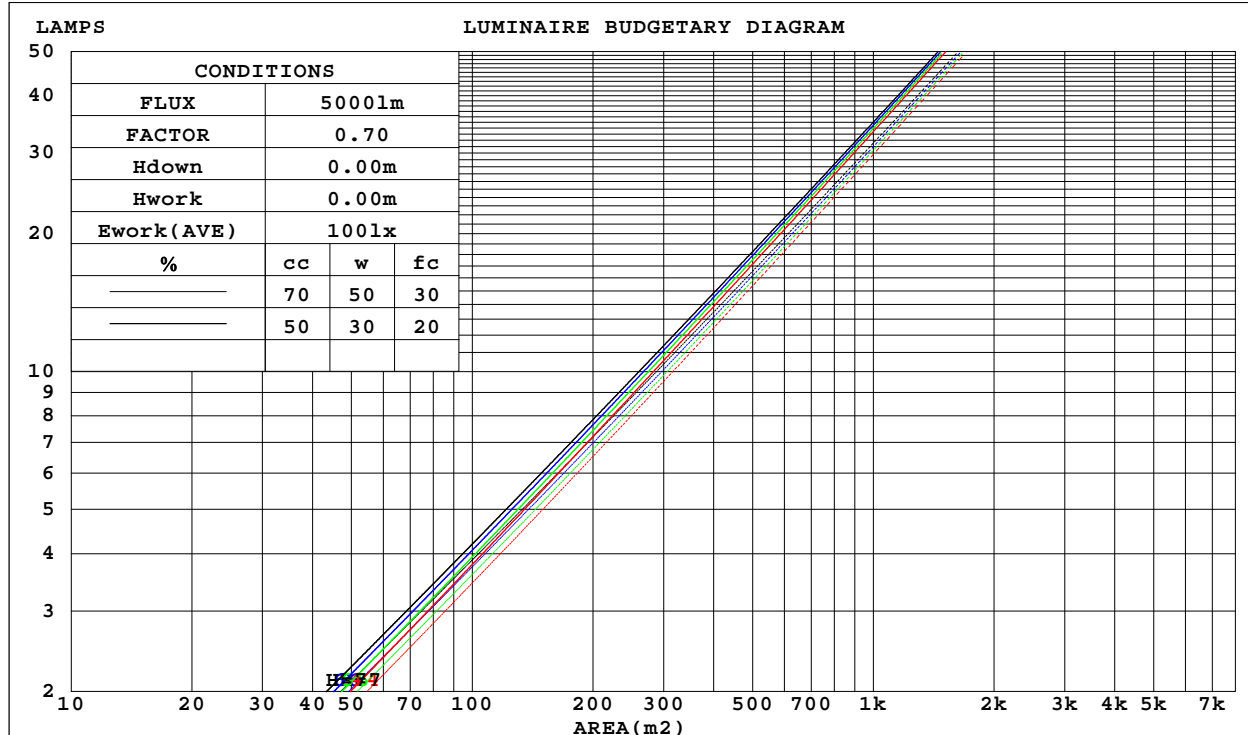
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.:3000K	DIM.:	SERIAL No.:2303140315
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 Coefficients of Utilization(CU)															
0.0	.99	.99	.99	.96	.96	.96	.92	.92	.92	.88	.88	.88	.85	.85	.85	.83
1.0	.93	.92	.90	.92	.90	.89	.88	.87	.86	.85	.84	.84	.82	.82	.81	.80
2.0	.89	.86	.84	.87	.85	.83	.85	.83	.81	.82	.81	.80	.80	.79	.78	.77
3.0	.85	.82	.79	.84	.81	.79	.82	.79	.77	.80	.78	.76	.78	.76	.75	.74
4.0	.81	.78	.75	.80	.77	.75	.79	.76	.74	.77	.75	.73	.76	.74	.72	.71
5.0	.78	.75	.72	.78	.74	.72	.76	.73	.71	.75	.73	.71	.74	.72	.70	.69
6.0	.76	.72	.70	.75	.72	.69	.74	.71	.69	.73	.70	.68	.72	.70	.68	.67
7.0	.73	.70	.67	.73	.69	.67	.72	.69	.67	.71	.68	.66	.70	.68	.66	.65
8.0	.71	.68	.65	.71	.67	.65	.70	.67	.65	.69	.67	.65	.69	.66	.64	.64
9.0	.69	.66	.64	.69	.66	.63	.68	.65	.63	.68	.65	.63	.67	.65	.63	.62
10.0	.67	.64	.62	.67	.64	.62	.67	.64	.62	.66	.63	.62	.66	.63	.61	.61



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30minutes warm-up

WEC AND CCEC

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NAME: 2319.200-AD3-350	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2303140315
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	.117	.066	.021	.111	.063	.020	.101	.058	.018	.091	.053	.017	.083	.048	.015	
2.0	.109	.060	.018	.105	.058	.018	.096	.053	.017	.088	.049	.015	.081	.046	.014	
3.0	.102	.054	.016	.098	.052	.016	.091	.049	.015	.084	.046	.014	.078	.043	.013	
4.0	.095	.049	.015	.092	.048	.014	.086	.046	.014	.080	.043	.013	.075	.041	.012	
5.0	.089	.046	.013	.087	.044	.013	.082	.042	.012	.077	.040	.012	.072	.039	.012	
6.0	.084	.042	.012	.082	.041	.012	.077	.040	.012	.073	.038	.011	.069	.037	.011	
7.0	.079	.039	.011	.077	.039	.011	.074	.037	.011	.070	.036	.010	.067	.035	.010	
8.0	.075	.037	.010	.073	.036	.010	.070	.035	.010	.067	.034	.010	.064	.033	.010	
9.0	.071	.035	.010	.070	.034	.010	.067	.033	.009	.064	.032	.009	.062	.031	.009	
10.0	.068	.033	.009	.067	.032	.009	.064	.031	.009	.062	.031	.009	.059	.030	.009	

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	.158	.158	.158	.135	.135	.135	.092	.092	.092	.053	.053	.053	.017	.017	.017	
1.0	.140	.131	.122	.120	.112	.105	.082	.077	.073	.047	.045	.042	.015	.014	.014	
2.0	.125	.110	.097	.107	.095	.084	.073	.065	.059	.042	.038	.034	.014	.012	.011	
3.0	.113	.094	.079	.097	.081	.068	.066	.056	.048	.038	.033	.028	.012	.011	.009	
4.0	.103	.081	.065	.088	.070	.056	.060	.049	.040	.035	.029	.023	.011	.009	.008	
5.0	.094	.071	.054	.081	.061	.047	.055	.043	.033	.032	.025	.020	.010	.008	.007	
6.0	.086	.063	.046	.074	.054	.040	.051	.038	.028	.030	.022	.017	.010	.007	.006	
7.0	.080	.056	.039	.069	.049	.034	.048	.034	.024	.028	.020	.014	.009	.007	.005	
8.0	.074	.050	.034	.064	.044	.029	.044	.031	.021	.026	.018	.012	.008	.006	.004	
9.0	.070	.046	.029	.060	.040	.026	.042	.028	.018	.024	.016	.011	.008	.005	.004	
10.0	.065	.042	.026	.056	.036	.023	.039	.025	.016	.023	.015	.010	.007	.005	.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.:2303140315			
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		16.6	17.2	16.8	17.4	17.5	17.1	17.8	17.3	17.9	18.1
	3H	16.6	17.2	16.8	17.4	17.6	17.2	17.8	17.5	18.0	18.2
	4H	16.5	17.1	16.8	17.3	17.5	17.2	17.7	17.4	18.0	18.2
	6H	16.4	17.0	16.7	17.2	17.5	17.1	17.6	17.3	17.9	18.1
	8H	16.4	16.9	16.7	17.2	17.4	17.0	17.6	17.3	17.8	18.1
	12H	16.4	16.9	16.7	17.1	17.4	17.0	17.5	17.3	17.8	18.0
4H	2H	16.7	17.3	17.0	17.5	17.7	17.2	17.8	17.4	18.0	18.2
	3H	16.7	17.3	17.0	17.5	17.8	17.3	17.8	17.6	18.1	18.4
	4H	16.6	17.1	17.0	17.4	17.7	17.2	17.7	17.6	18.0	18.3
	6H	16.5	17.0	16.9	17.3	17.6	17.1	17.5	17.5	17.9	18.2
	8H	16.5	16.9	16.9	17.2	17.6	17.1	17.5	17.4	17.8	18.2
	12H	16.4	16.8	16.8	17.2	17.5	17.0	17.4	17.4	17.7	18.1
8H	4H	16.5	16.9	16.9	17.2	17.6	17.1	17.5	17.5	17.8	18.2
	6H	16.4	16.7	16.8	17.1	17.5	17.0	17.3	17.4	17.7	18.1
	8H	16.3	16.6	16.8	17.0	17.5	16.9	17.2	17.3	17.6	18.0
	12H	16.3	16.5	16.7	17.0	17.4	16.8	17.1	17.3	17.5	18.0
12H	4H	16.4	16.8	16.8	17.2	17.6	17.0	17.4	17.4	17.7	18.1
	6H	16.3	16.6	16.8	17.0	17.5	16.9	17.2	17.3	17.6	18.0
	8H	16.3	16.5	16.7	17.0	17.4	16.8	17.1	17.3	17.5	18.0
Variations with the observer position at spacings:											
S = 1.0H		+ 1.2 / - 1.9					+ 1.1 / - 1.6				
1.5H		+ 1.1 / - 1.0					+ 1.5 / - 1.0				
2.0H		+ 1.9 / - 3.0					+ 1.7 / - 3.1				

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

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UTILIZATION FACTORS TABLE

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SPEC.:3000K	DIM.:	SERIAL No.:2303140315
MFR.: RISE	SUR.:0.002826m2	Shielding Angle:

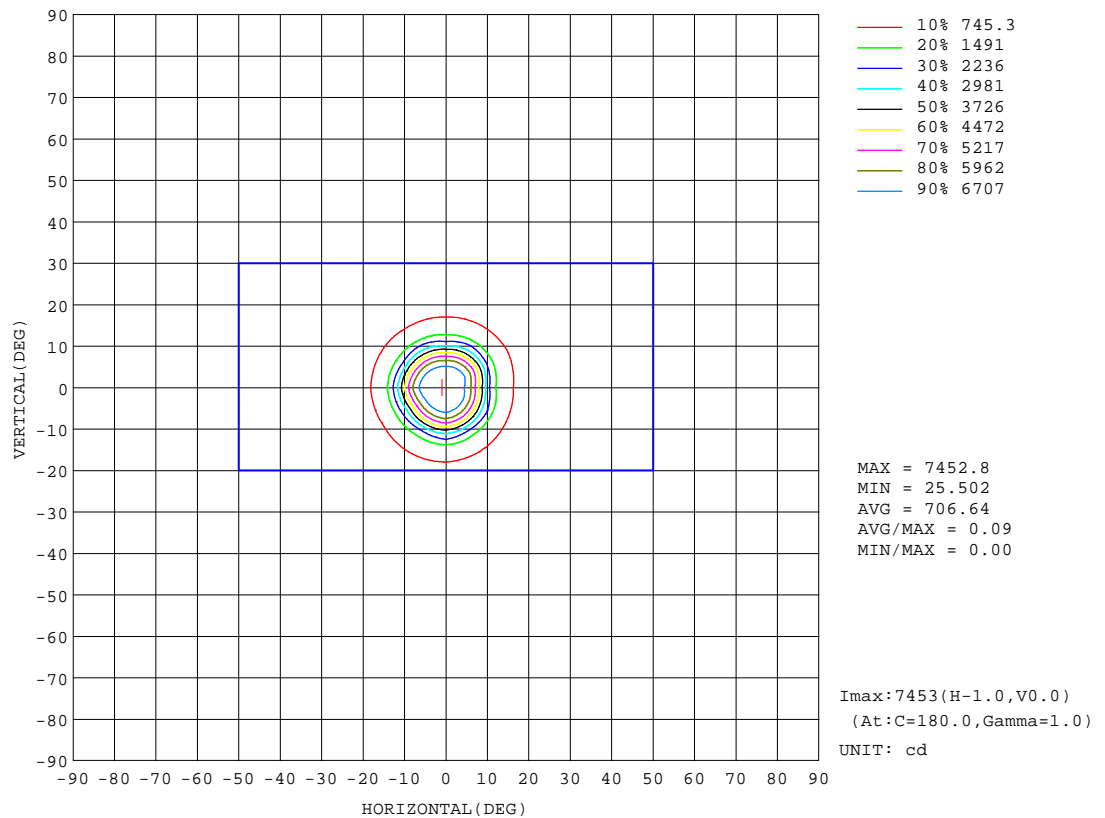
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	72	67	64	72	67	64	71	67	64	61
0.80	78	74	71	78	73	70	77	73	70	67
1.00	82	78	75	81	77	74	80	77	74	71
1.25	85	81	78	85	81	78	83	80	77	74
1.50	88	84	81	87	83	81	85	82	80	76
2.00	90	87	84	89	86	83	87	84	82	78
2.50	91	88	86	90	87	85	87	85	83	79
3.00	93	90	88	91	89	87	88	86	85	80
4.00	94	92	90	93	91	89	90	88	87	81
5.00	95	93	92	94	92	91	90	89	88	82
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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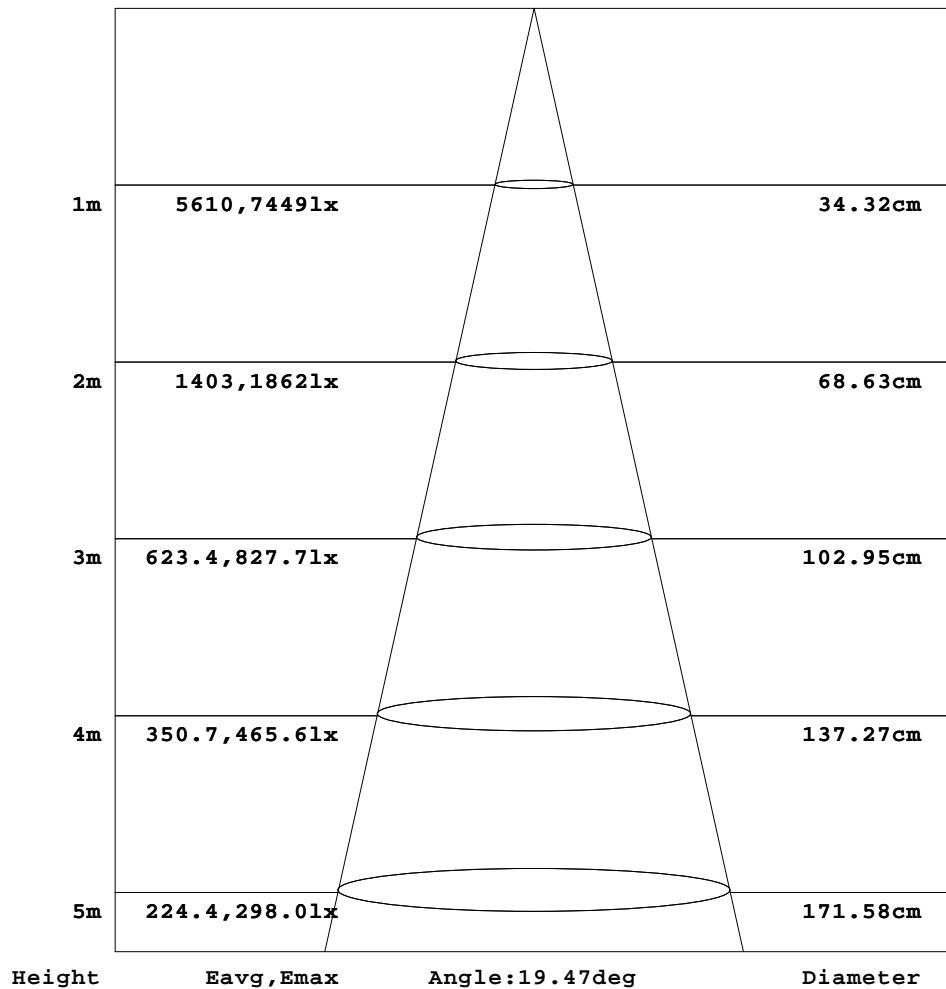
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AAI Figure

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SPEC.:3000K	DIM.:	SERIAL No.:2303140315
MFR.: RISE	SUR.:0.002826m2	Shielding Angle:

Flux out:548.0 lm



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

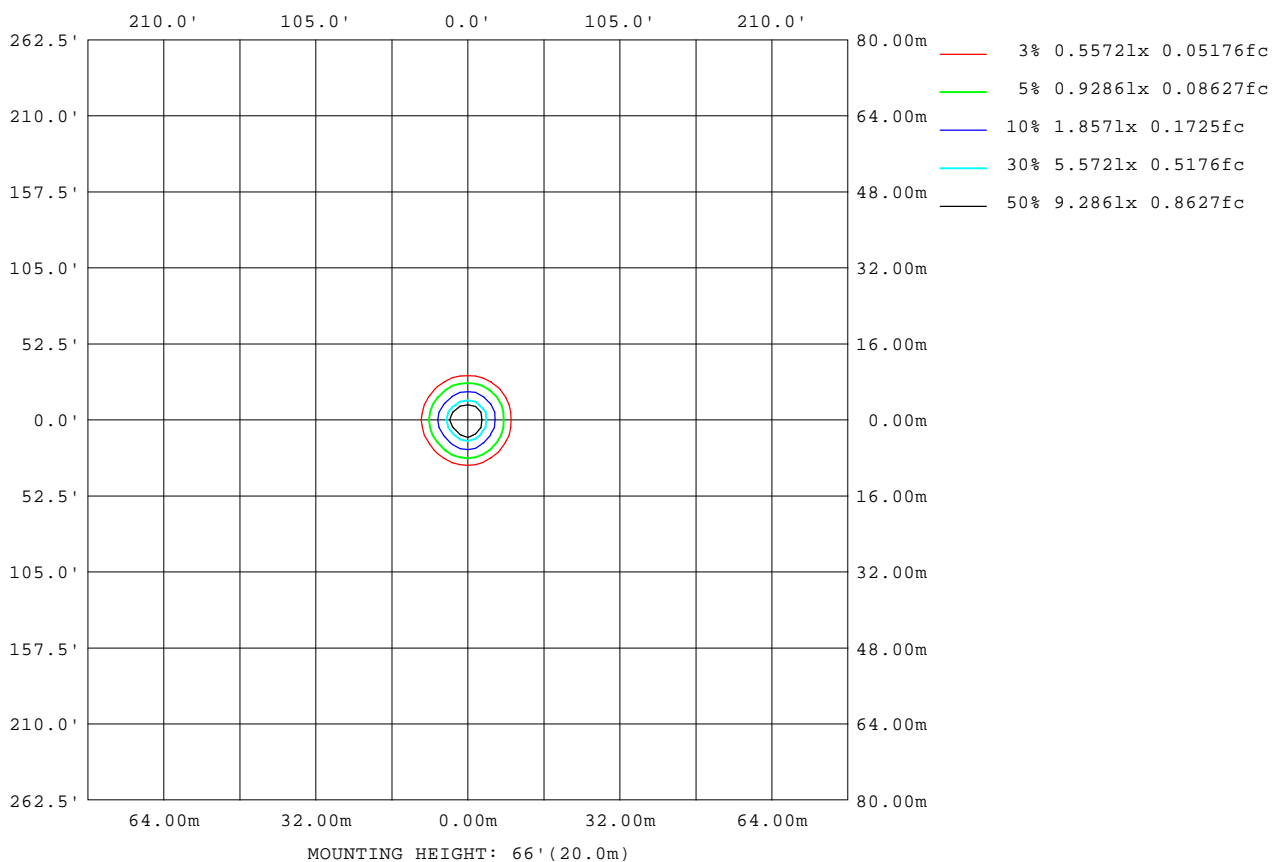
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zoe
Test Date:2023-3-14

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



ISOLUX DIAGRAM

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.:2303140315
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

```

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-15D 15R
          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.:2303140315
MFR.: RISE	SUR.:0.002826m2	Shielding Angle:

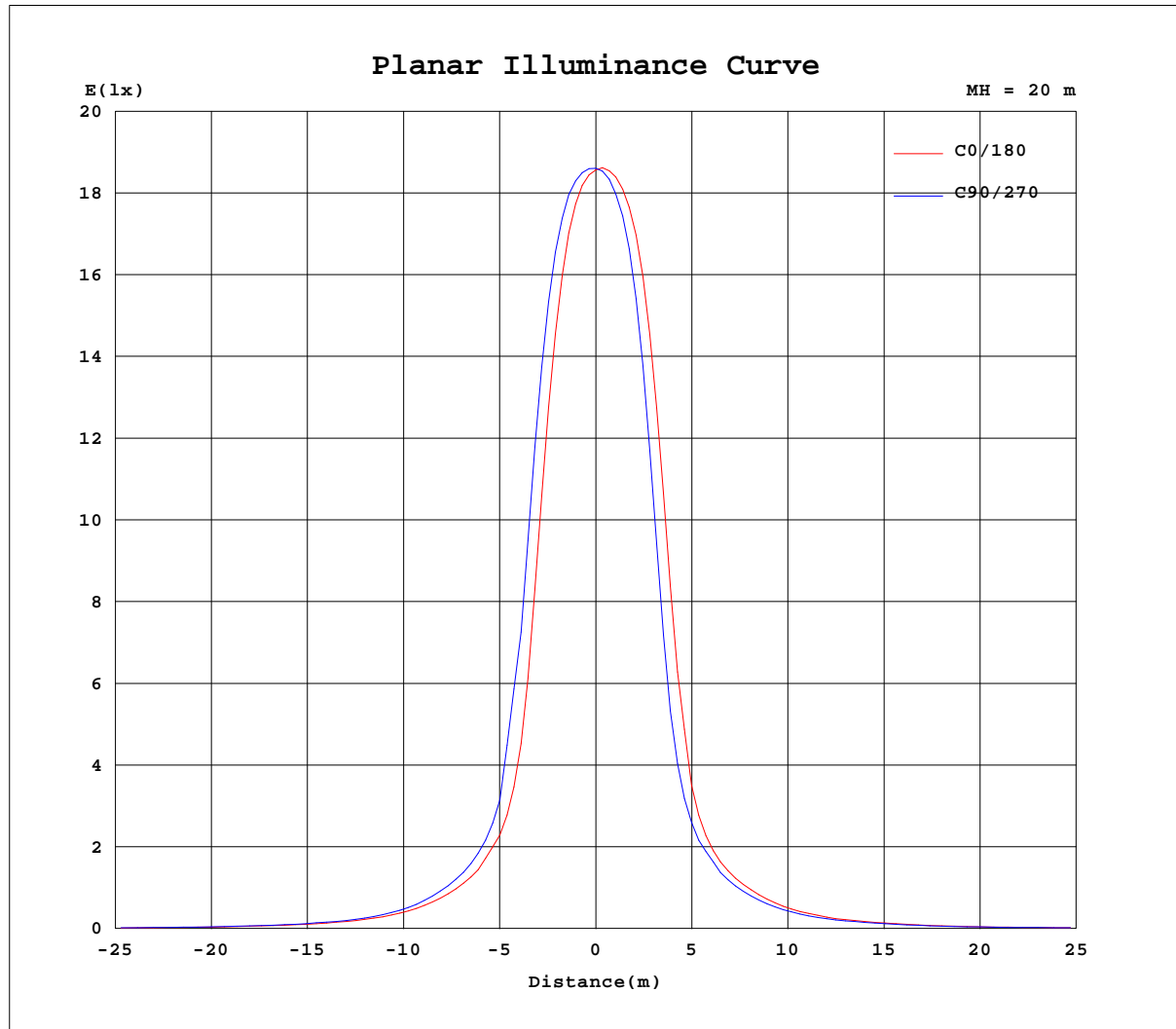
AvgL	cd/m2
L_0~180(65)av	7957
L_0~180(75)av	595
L_0~180(85)av	216
L_90~270(65)av	8433
L_90~270(75)av	481
L_90~270(85)av	200
L_45(65)av	8302
L_45(75)av	330
L_45(85)av	120

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-15D 15R
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-15D 15R
 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.:2303140315
MFR.: RISE	SUR.:0.002826m2	Shielding Angle:

Table--1

UNIT: cd

C(DEC) (DEC)	0	30	60	90	120	150	180	210	240	270	300	330						
0	7438	7438	7438	7438	7438	7438	7438	7438	7438	7438	7438	7438						
5	6475	6708	6900	7032	6968	6950	7153	7002	6859	6728	6795	6797						
10	2570	3045	3516	3978	3805	3740	4462	3844	3351	3004	3229	3268						
15	893	944	1037	1150	1104	1082	1234	1100	1030	962	1017	993						
20	474	508	539	584	566	559	599	552	531	507	529	517						
25	269	287	303	323	315	315	343	317	305	289	298	293						
30	160	169	175	184	177	183	203	188	181	172	173	173						
35	106	110	114	118	115	121	129	125	121	115	112	113						
40	69.0	73.0	75.2	78.6	75.7	78.4	85.4	82.2	78.3	75.0	73.8	74.0						
45	48.9	51.8	53.4	54.9	53.1	53.6	56.9	55.8	54.1	52.3	52.5	52.0						
50	37.4	41.1	42.2	42.6	42.2	41.7	43.5	43.7	42.6	39.6	41.3	40.6						
55	27.0	29.3	30.9	31.4	31.0	29.9	31.6	31.1	30.2	28.8	29.5	28.5						
60	16.1	18.3	19.6	20.6	19.8	18.7	20.5	19.6	18.6	17.4	18.1	17.4						
65	8.41	9.61	10.4	10.8	10.6	9.78	10.6	10.3	9.75	9.31	9.60	9.19						
70	3.04	3.80	4.50	4.93	4.71	4.26	4.98	4.46	4.00	3.78	3.87	3.68						
75	0.18	0.20	0.31	0.55	0.37	0.35	0.69	0.32	0.17	0.16	0.16	0.18						
80	0.07	0.06	0.07	0.07	0.05	0.05	0.06	0.04	0.04	0.05	0.04	0.04						
85	0.06	0.04	0.05	0.06	0.04	0.04	0.05	0.03	0.02	0.04	0.02	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
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zoe
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