

Luminaire Photograph



Light Output Ratio:	66.2%	
Luminaire Power:	14.49 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.70	fine grid method.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: zoe
Test Date: 2025-2-20

Range: 0 - 180DEG
Interval: 1.0DEG
Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
Humidity: 65.0%
Test Distance: 3.160m [K=1.0000]
Remarks: LAMP: BXRE-30G1000-A-83 Ra: 90
LENS: PM-1107C 50R
DRIVER: LSC20W350LRP 350mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

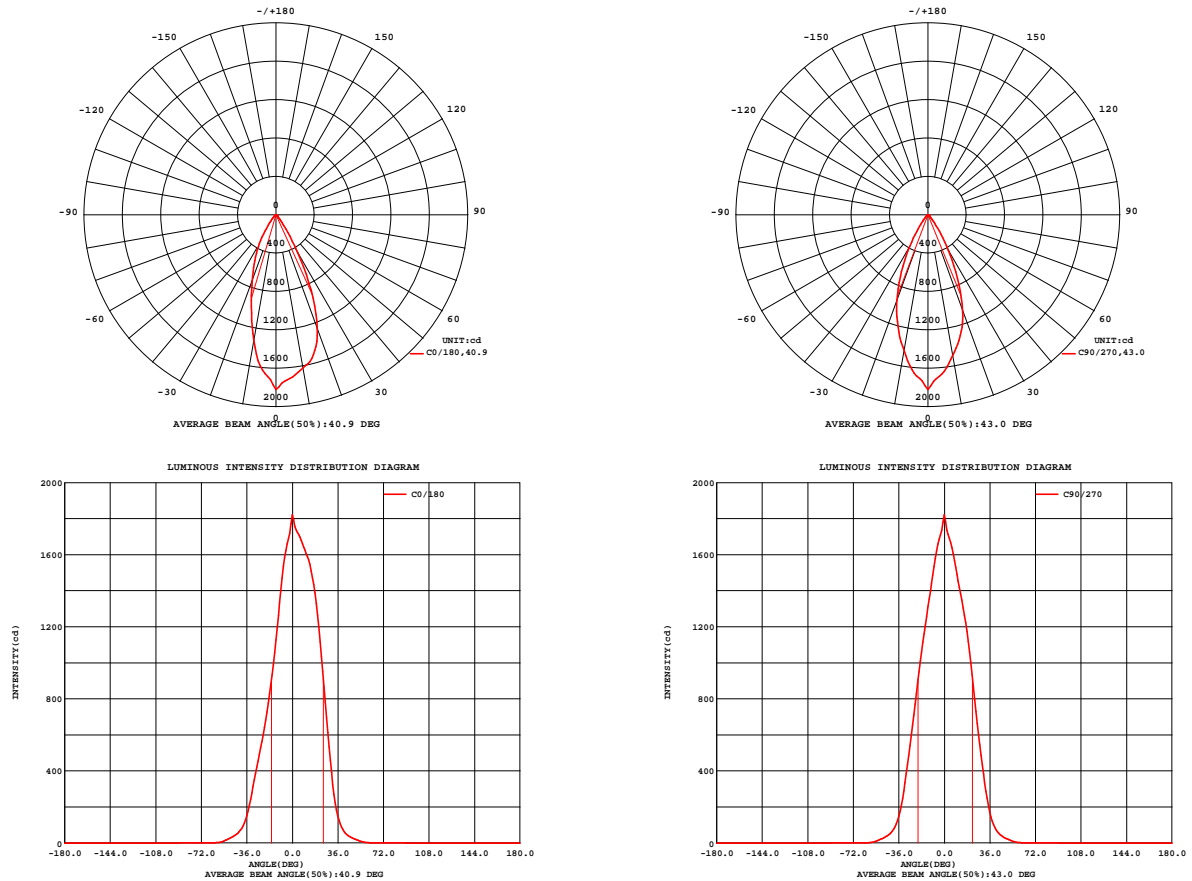


Fig. C0/C180

Fig. C90/C270

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Test Speed: HIGH
Temperature: 25.3 °C
Operators: zoe
Test Date: 2025-2-20

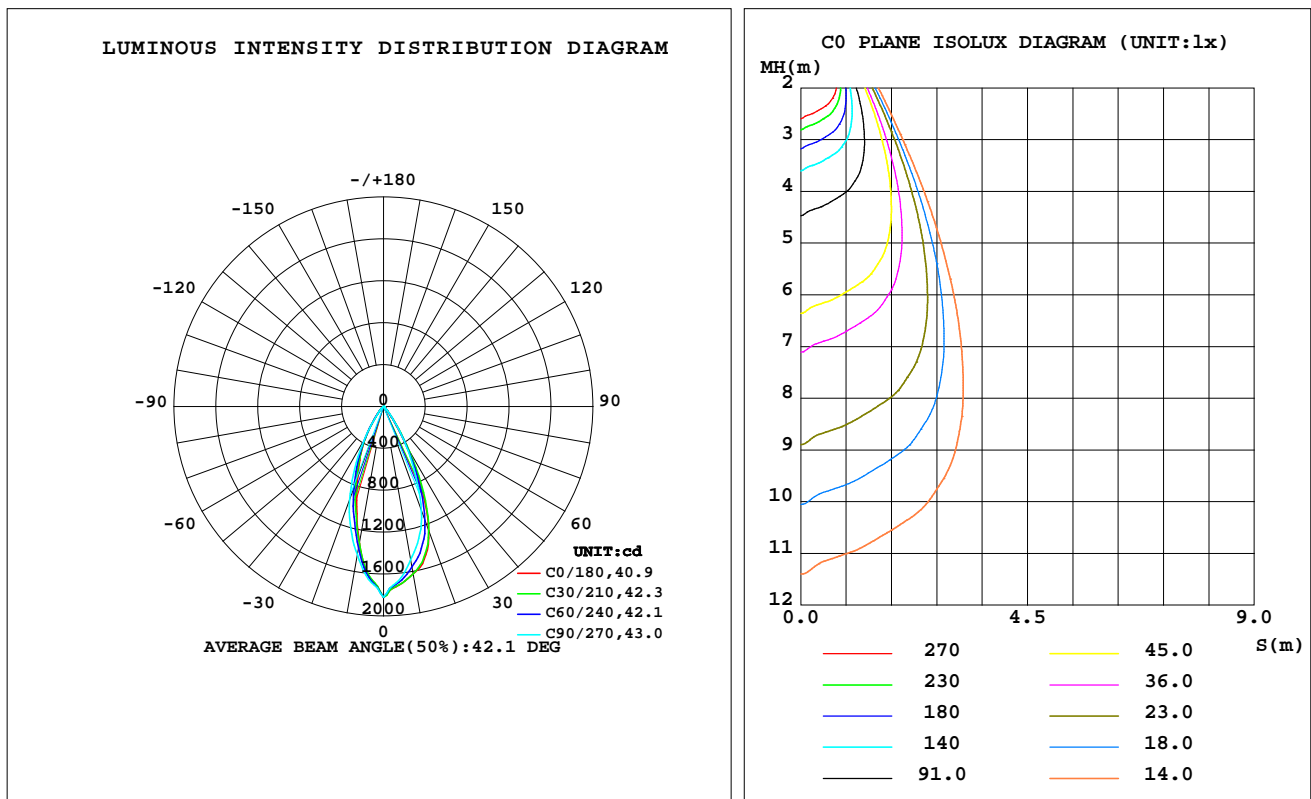
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30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.24V I:0.0740A P:14.493W PF:0.8840 Freq:49.99Hz Lamp Flux:1490.39x1 lm		
NAME: 2115.115	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2502210106
MFR.: RISE	SUR.: 0.002826m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 68.07 lm/W			
MODEL	Bridgelux	Imax(cd)	1822	S/MH(C0/180)	0.53
NOMINAL POWER(W)	14	LOR(%)	66.2	S/MH(C90/270)	0.65
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	986.49	UP,DN(C0-180)	0.0,34.7
NOMINAL FLUX(lm)	1490.39	CIE CLASS	DIRECT	UP,DN(C180-360)	0.0,31.5
LAMPS INSIDE	1	up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	220	down(%)	66.2	CIBSE SHR MAX	0.70



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ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

	C0	C45	C90	C135	C180	C225	C270	C315		zone	total	%lum,lamp
10	1624	1591	1490	1388	1330	1352	1440	1560	0- 10	152.8	152.8	15.5,10.2
20	1264	1211	1060	849.0	727.3	798.9	949.0	1182	10- 20	348.8	501.5	50.8,33.7
30	459.8	481.0	432.3	367.3	349.3	356.1	384.3	437.8	20- 30	316.7	818.2	82.9,54.9
40	75.99	84.68	85.94	84.95	81.08	81.04	77.95	74.59	30- 40	126.3	944.5	95.7,63.4
50	20.09	21.00	21.72	22.52	23.58	22.82	21.39	19.66	40- 50	33.28	977.7	99.1,65.6
60	1.918	1.978	1.852	1.985	1.821	1.739	1.687	1.652	50- 60	8.138	985.9	99.9,66.1
70	0.0325	0.0307	0.0318	0.0318	0.0298	0.0226	0.0224	0.0193	60- 70	0.5926	986.5	100,66.2
80	0.0183	0.0102	0.0145	0.0107	0.0173	0.0086	0.0155	0.0068	70- 80	0.0176	986.5	100,66.2
90	0	0	0	0	0	0	0	0	80- 90	0.0100	986.5	100,66.2
100	0	0	0	0	0	0	0	0	90-100	0	986.5	100,66.2
110	0	0	0	0	0	0	0	0	100-110	0	986.5	100,66.2
120	0	0	0	0	0	0	0	0	110-120	0	986.5	100,66.2
130	0	0	0	0	0	0	0	0	120-130	0	986.5	100,66.2
140	0	0	0	0	0	0	0	0	130-140	0	986.5	100,66.2
150	0	0	0	0	0	0	0	0	140-150	0	986.5	100,66.2
160	0	0	0	0	0	0	0	0	150-160	0	986.5	100,66.2
170	0	0	0	0	0	0	0	0	160-170	0	986.5	100,66.2
180	0	0	0	0	0	0	0	0	170-180	0	986.5	100,66.2
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:220.24V I:0.0740A P:14.493W PF:0.8840 Freq:49.99Hz
Lamp Flux:1490.39x1 lm

NAME: 2115.115

TYPE:

WEIGHT:

SPEC.: 3000K

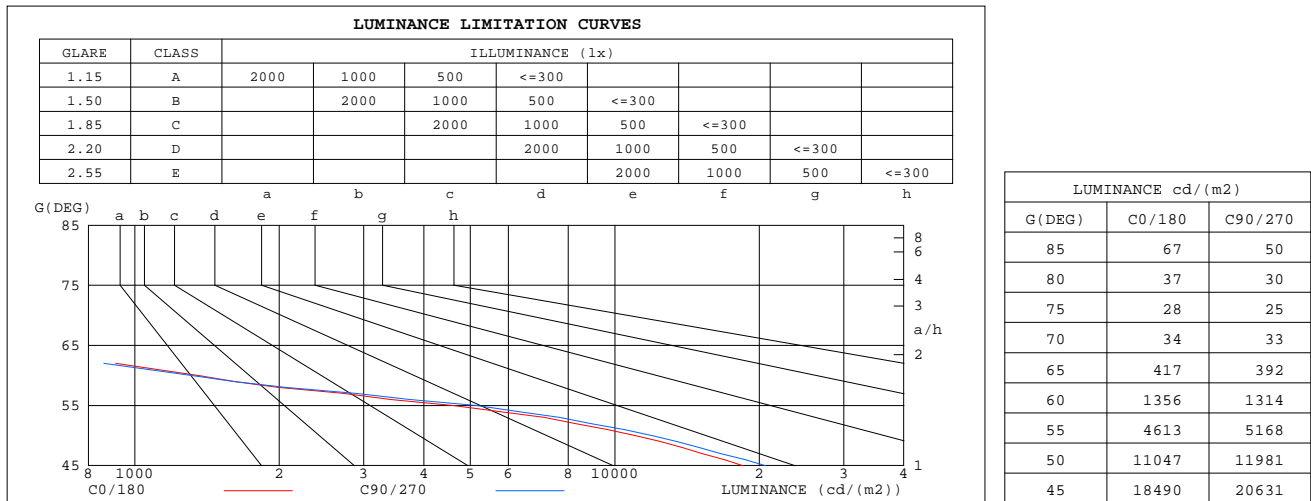
DIM.:

SERIAL No.: 2502210106

MFR.: RISE

SUR.: 0.002826m2

Shielding Angle:



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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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WEIGHT:

SPEC.: 3000K

DIM.:

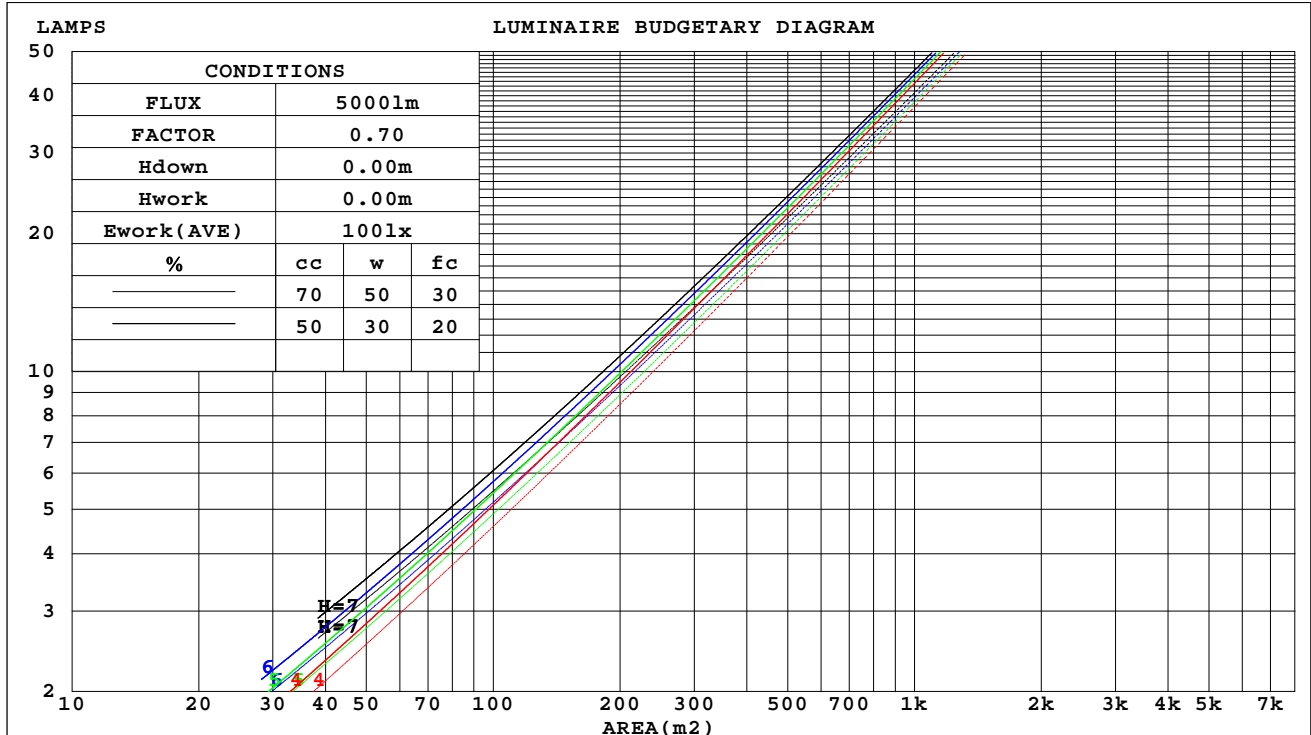
SERIAL No.: 2502210106

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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SPEC.: 3000K	DIM.:	SERIAL No.: 2502210106
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	.108	.062	.019	.104	.059	.019	.096	.055	.017	.088	.051	.016	.081	.047	.015	
2.0	.103	.056	.017	.099	.055	.017	.092	.051	.016	.086	.048	.015	.080	.045	.014	
3.0	.098	.052	.016	.094	.051	.015	.089	.048	.015	.083	.046	.014	.078	.043	.013	
4.0	.093	.048	.014	.090	.047	.014	.085	.045	.013	.080	.043	.013	.076	.041	.013	
5.0	.088	.045	.013	.086	.044	.013	.082	.043	.013	.078	.041	.012	.074	.039	.012	
6.0	.084	.042	.012	.082	.042	.012	.079	.040	.012	.075	.039	.011	.072	.038	.011	
7.0	.081	.040	.011	.079	.039	.011	.076	.038	.011	.072	.037	.011	.069	.036	.011	
8.0	.077	.038	.011	.076	.037	.011	.073	.036	.010	.070	.035	.010	.067	.035	.010	
9.0	.074	.036	.010	.073	.035	.010	.070	.035	.010	.068	.034	.010	.065	.033	.010	
10.0	.071	.034	.009	.070	.034	.009	.068	.033	.009	.065	.032	.009	.063	.032	.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	.126	.126	.126	.108	.108	.108	.074	.074	.074	.042	.042	.042	.014	.014	.014	
1.0	.113	.104	.097	.096	.089	.083	.066	.062	.057	.038	.036	.033	.012	.011	.011	
2.0	.102	.088	.076	.087	.076	.066	.060	.052	.046	.035	.030	.027	.011	.010	.009	
3.0	.093	.075	.061	.080	.065	.053	.055	.045	.037	.032	.026	.022	.010	.009	.007	
4.0	.086	.065	.049	.074	.056	.043	.051	.039	.030	.029	.023	.018	.009	.007	.006	
5.0	.080	.057	.041	.069	.050	.035	.047	.035	.025	.027	.020	.015	.009	.007	.005	
6.0	.075	.051	.034	.064	.044	.030	.044	.031	.021	.026	.018	.012	.008	.006	.004	
7.0	.070	.046	.029	.061	.040	.025	.042	.028	.018	.024	.016	.011	.008	.005	.004	
8.0	.067	.042	.025	.057	.036	.022	.040	.025	.015	.023	.015	.009	.007	.005	.003	
9.0	.063	.038	.022	.054	.033	.019	.038	.023	.013	.022	.014	.008	.007	.005	.003	
10.0	.060	.035	.019	.052	.031	.016	.036	.022	.012	.021	.013	.007	.007	.004	.002	

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30minutes warm-up

UGR(Unified Glare Rating) Table

Test:U:220.24V I:0.0740A P:14.493W PF:0.8840 Freq:49.99Hz Lamp Flux:1490.39x1 lm											
NAME: 2115.115					TYPE:			WEIGHT:			
SPEC.: 3000K					DIM.:			SERIAL No.: 2502210106			
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	16.5	17.3	16.7	17.5	17.7	16.5	17.4	16.7	17.5	17.7	
	3H	16.3	17.1	16.6	17.3	17.5	16.3	17.1	16.6	17.3	17.5
	4H	16.2	17.0	16.5	17.2	17.4	16.2	17.0	16.5	17.2	17.4
	6H	16.2	16.8	16.4	17.1	17.3	16.2	16.9	16.5	17.1	17.3
	8H	16.1	16.8	16.4	17.0	17.3	16.1	16.8	16.4	17.0	17.3
	12H	16.1	16.7	16.4	17.0	17.2	16.1	16.7	16.4	17.0	17.2
4H	2H	16.2	17.0	16.5	17.2	17.4	16.3	17.0	16.5	17.2	17.4
	3H	16.1	16.7	16.4	17.0	17.3	16.1	16.7	16.4	17.0	17.3
	4H	16.0	16.6	16.3	16.9	17.2	16.0	16.6	16.3	16.9	17.2
	6H	15.9	16.4	16.3	16.7	17.1	15.9	16.4	16.3	16.7	17.1
	8H	15.8	16.3	16.2	16.7	17.0	15.8	16.3	16.2	16.7	17.0
	12H	15.8	16.2	16.2	16.6	17.0	15.8	16.2	16.2	16.6	17.0
8H	4H	15.8	16.3	16.2	16.7	17.0	15.8	16.3	16.2	16.7	17.0
	6H	15.7	16.1	16.1	16.5	16.9	15.7	16.1	16.2	16.5	16.9
	8H	15.7	16.0	16.1	16.4	16.9	15.7	16.0	16.1	16.4	16.9
	12H	15.6	15.9	16.1	16.3	16.8	15.6	15.9	16.1	16.4	16.8
12H	4H	15.8	16.2	16.2	16.6	17.0	15.8	16.2	16.2	16.6	17.0
	6H	15.7	16.0	16.1	16.4	16.9	15.7	16.0	16.1	16.4	16.9
	8H	15.6	15.9	16.1	16.3	16.8	15.6	15.9	16.1	16.4	16.8
Variations with the observer position at spacings(CIE Pub.117):											
S = 1.0H	+ 3.2 / -13.6					+ 3.8 / -14.1					
1.5H	+ 5.0 / - 8.8					+ 5.6 / - 8.5					
2.0H	+ 5.6 / -15.4					+ 6.0 / -16.1					

CIE Pub.117, 1490 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.4)
Area: 0.002826 m2

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Interval: 1.0DEG
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30minutes warm-up

UTILIZATION FACTORS TABLE

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SPEC.: 3000K	DIM.:	SERIAL No.: 2502210106
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	59	55	52	58	55	52	58	54	52	50
0.80	64	60	58	63	60	58	62	59	57	55
1.00	66	63	61	66	63	60	65	62	60	58
1.25	69	66	64	68	65	63	67	65	63	60
1.50	71	68	66	70	67	65	68	66	65	62
2.00	72	70	68	71	69	67	70	68	66	63
2.50	73	71	69	72	70	68	70	69	67	63
3.00	74	72	70	73	71	70	71	69	68	64
4.00	76	74	72	74	73	72	72	71	70	65
5.00	76	75	74	75	74	73	72	71	71	66
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

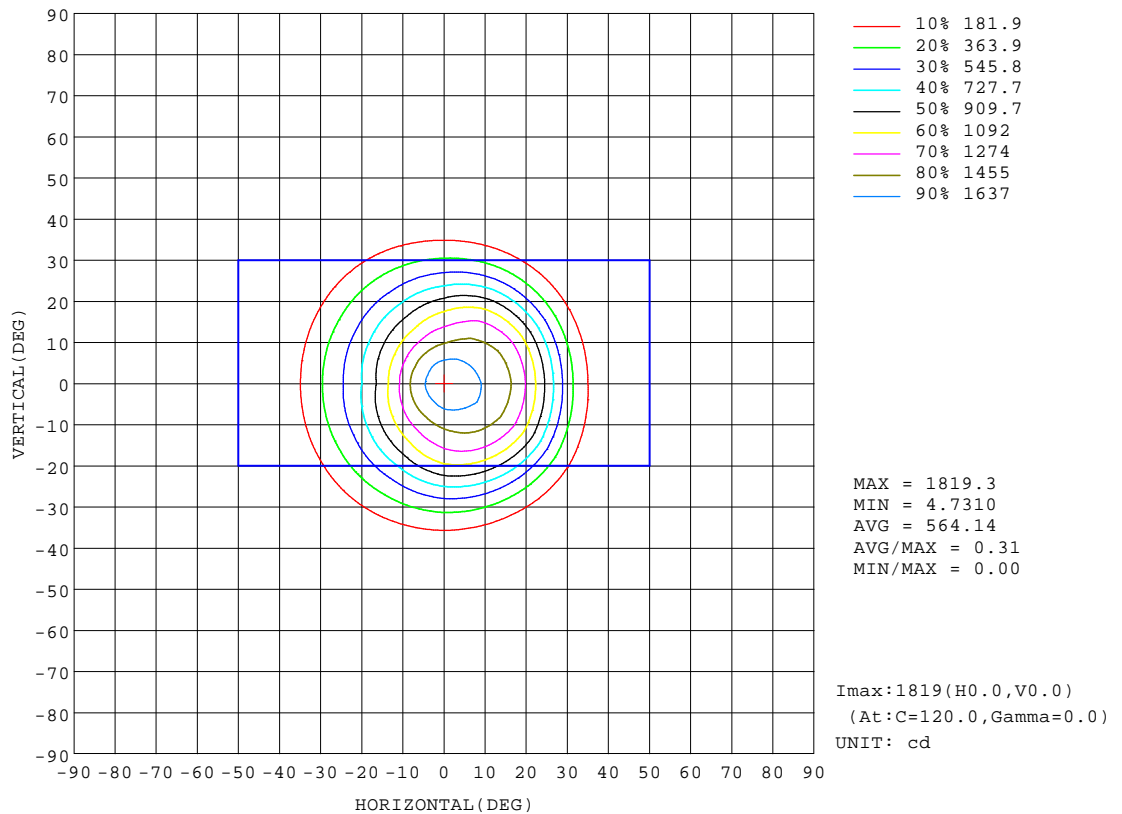
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ISOCANDELA DIAGRAM

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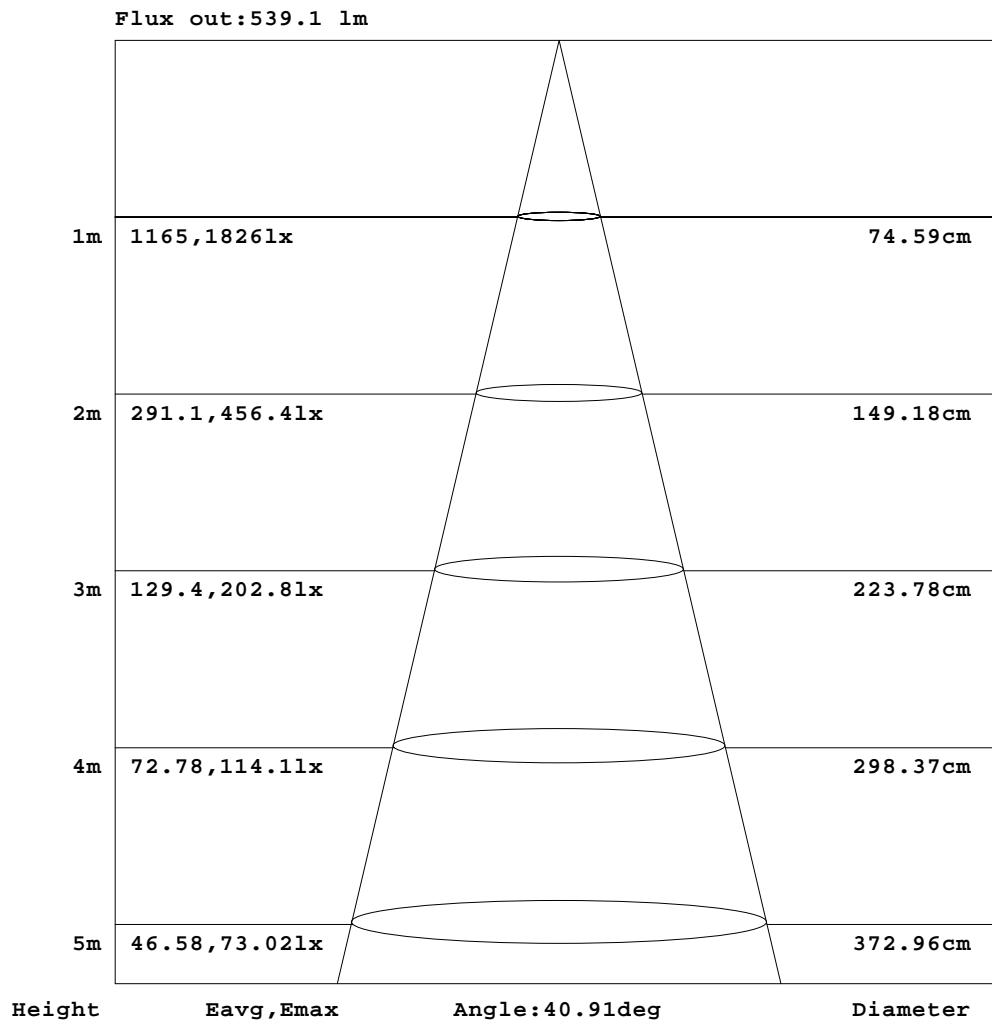
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AAI Figure

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



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

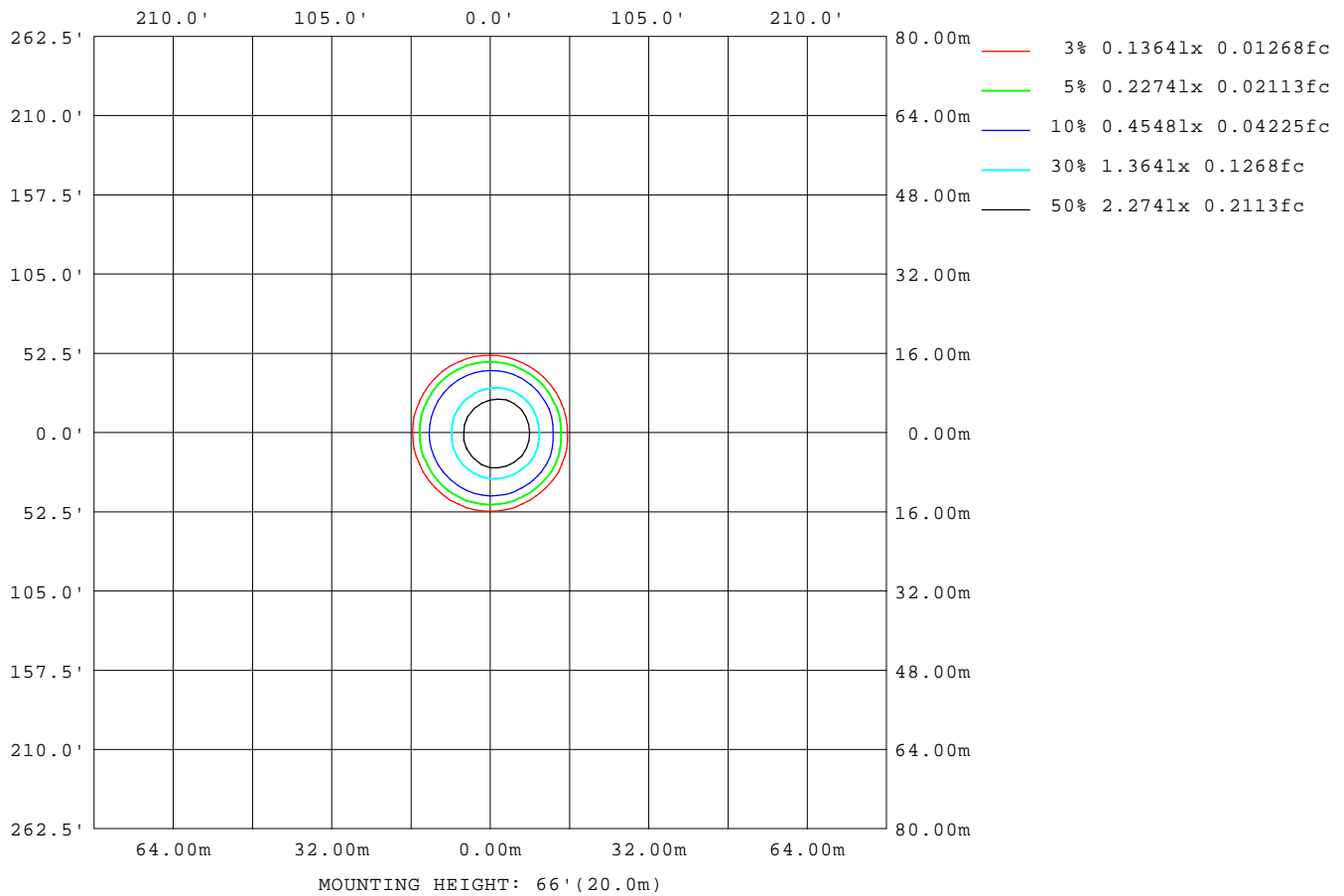
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ISOLUX DIAGRAM

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LED Avg.L Report

Test:U:220.24V I:0.0740A P:14.493W PF:0.8840 Freq:49.99Hz Lamp Flux:1490.39x1 lm		
NAME: 2115.115	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2502210106
MFR.: RISE	SUR.: 0.002826m2	Shielding Angle:

AvgL	cd/m2
L_0~180(65)av	396
L_0~180(75)av	30
L_0~180(85)av	61
L_90~270(65)av	380
L_90~270(75)av	24
L_90~270(85)av	50
L_45(65)av	388
L_45(75)av	18
L_45(85)av	27

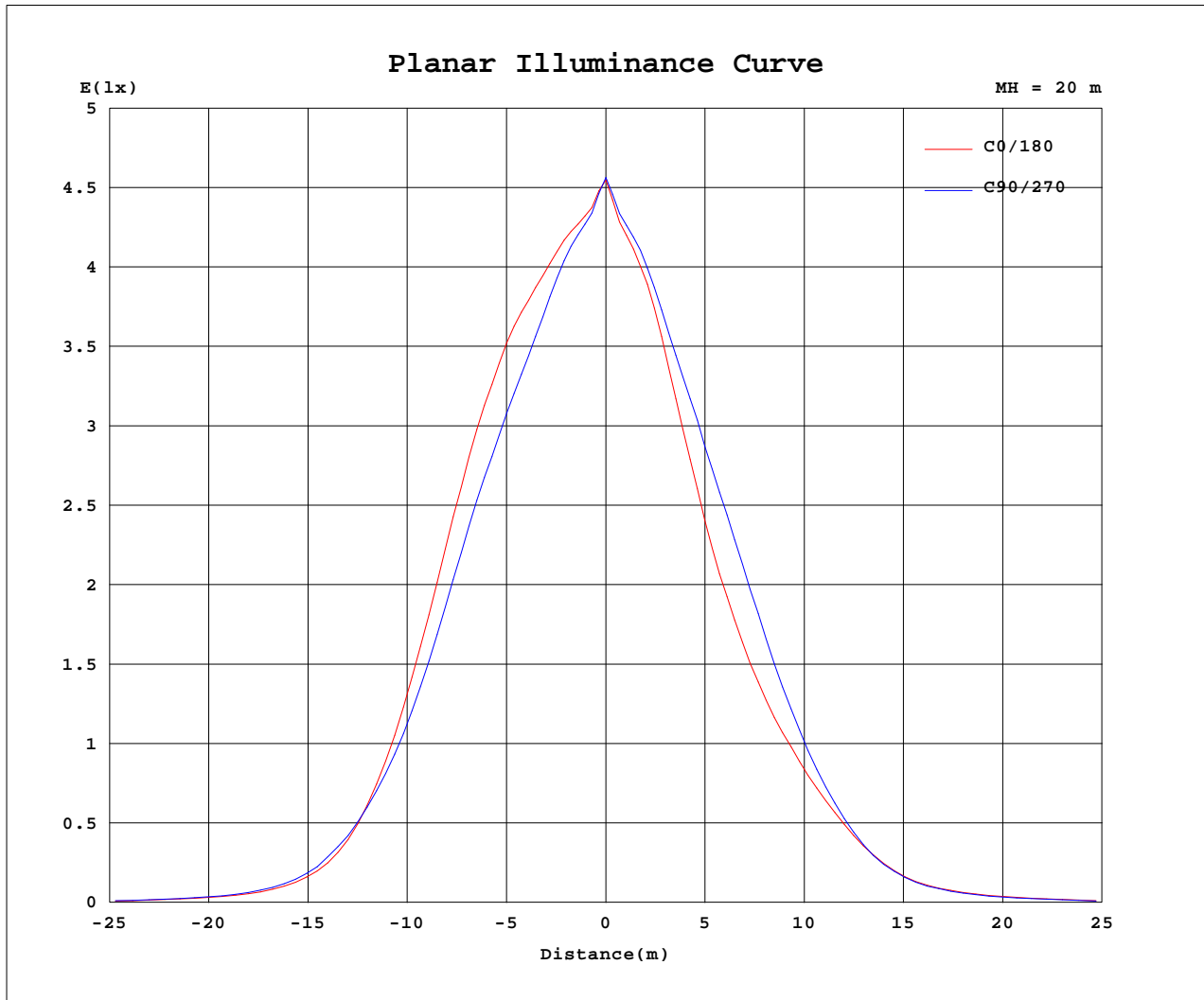
Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2025-2-20

Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:BXRE-30G1000-A-83 Ra:90
LENS:PM-1107C 50R
DRIVER:LSC20W350LRP 350mA

30minutes warm-up

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3 °C
 Operators: zoe
 Test Date: 2025-2-20

Range: 0 - 180DEG
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LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.24V I:0.0740A P:14.493W PF:0.8840 Freq:49.99Hz Lamp Flux:1490.39x1 lm		
NAME: 2115.115	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2502210106
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	1822	1822	1822	1822	1822	1822	1822	1822	1822	1822	1822	1822						
5	1712	1710	1686	1668	1638	1624	1623	1618	1636	1658	1684	1700						
10	1624	1624	1558	1490	1417	1359	1330	1331	1373	1440	1530	1590						
15	1509	1492	1401	1304	1170	1074	992	1029	1091	1208	1369	1468						
20	1264	1264	1158	1060	899	799	727	769	829	949	1130	1234						
25	868	905	807	729	614	554	528	540	579	655	776	853						
30	460	504	458	432	380	355	349	348	364	384	424	451						
35	183	215	200	209	192	179	179	177	180	176	177	180						
40	76.0	85.0	84.4	85.9	87.9	82.0	81.1	81.4	80.7	78.0	73.9	75.3						
45	37.0	38.7	38.8	41.1	42.0	42.8	43.8	41.7	41.8	39.9	37.6	36.0						
50	20.1	21.0	21.0	21.7	22.0	23.1	23.6	22.8	22.8	21.4	20.2	19.1						
55	7.49	8.31	8.34	8.36	8.85	8.98	8.73	8.45	8.33	7.58	7.09	6.98						
60	1.92	2.07	1.89	1.85	2.00	1.97	1.82	1.69	1.78	1.69	1.62	1.68						
65	0.50	0.52	0.50	0.47	0.50	0.48	0.45	0.39	0.40	0.44	0.45	0.47						
70	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02						
75	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.02	0.01	0.01						
80	0.02	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.02	0.01	0.01						
85	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.01						
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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