

## Luminaire Photograph



Light Output Ratio:	63.8%	
Luminaire Power:	13.71 W	
SHR Nominal:	0.75	Calculated using the TM5
SHR Maximum:	0.80	fine grid method.

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3 °C  
Operators: zoe  
Test Date: 2024-8-10

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-1082C 50R  
DRIVER: IT FIT 20/200-240/500 CS 350mA  
30minutes warm-up

## LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

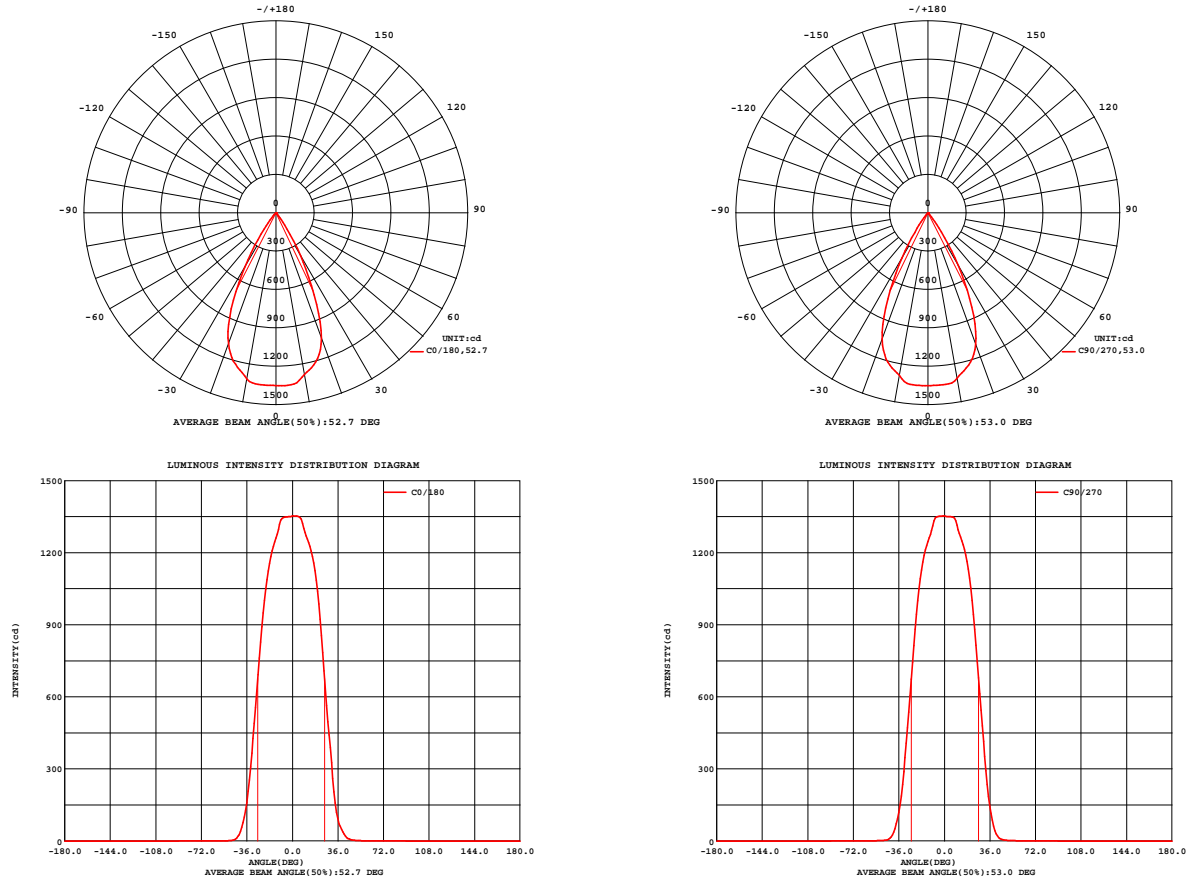


Fig. C0/C180

Fig. C90/C270

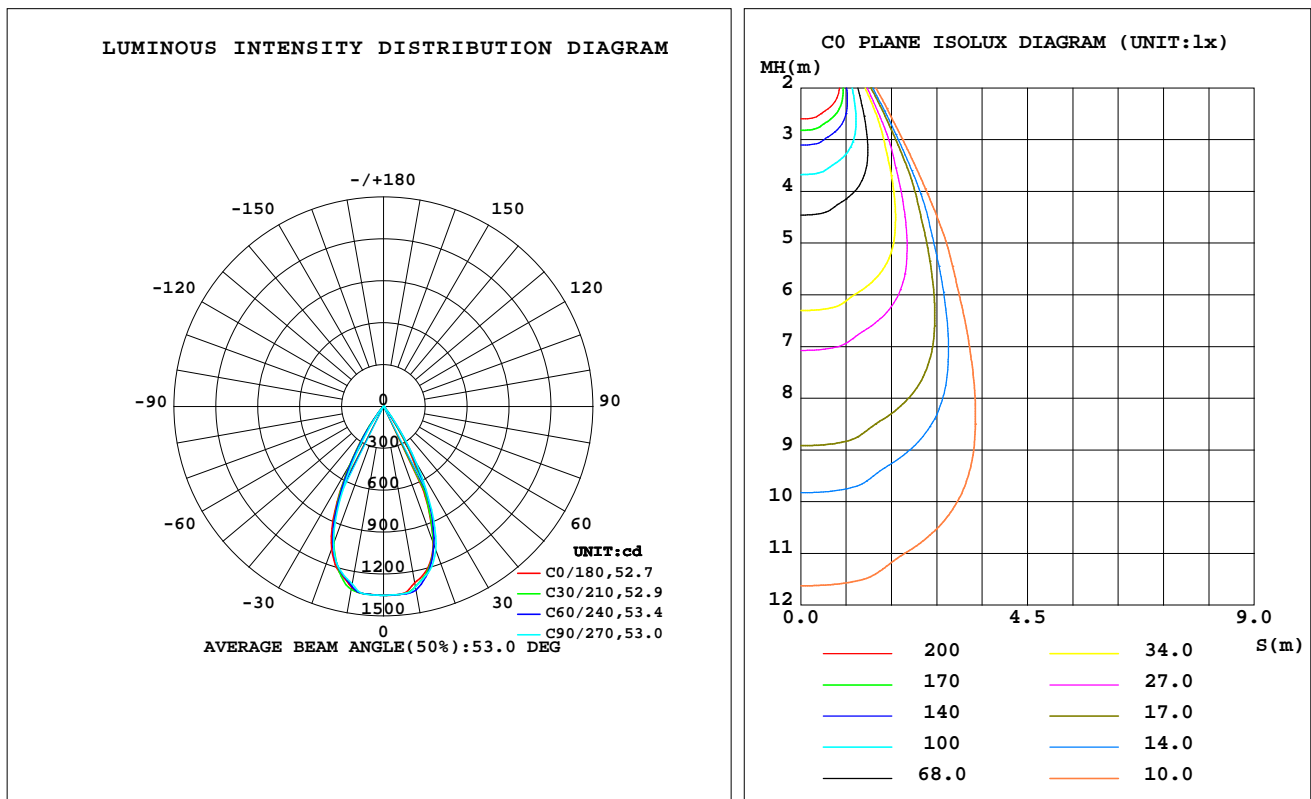
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DRIVER: IT FIT 20/200-240/500 CS 350mA  
30minutes warm-up

## LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.18V I:0.0641A P:13.709W PF:0.9692 Freq:49.99Hz Lamp Flux:1490.38x1 lm		
NAME: 2418.105-ACOT-70	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2408101113
MFR.: RISE	SUR.: 0.004624m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 69.31 lm/W			
MODEL	Bridgelux	I <sub>max</sub> (cd)	1352	S/MH(C0/180)	0.81
NOMINAL POWER(W)	14	LOR(%)	63.8	S/MH(C90/270)	0.77
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	950.19	UP,DN(C0-180)	0.0,32.2
NOMINAL FLUX(lm)	1490.38	CIE CLASS	DIRECT	UP,DN(C180-360)	0.0,31.6
LAMPS INSIDE	1	up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	220	down(%)	63.8	CIBSE SHR MAX	0.80



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Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.461  
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30minutes warm-up

## ZONAL FLUX DIAGRAM

### ZONAL FLUX DIAGRAM:

	C0	C45	C90	C135	C180	C225	C270	C315		zone	total	%lum,lamp
10	1283	1323	1314	1330	1318	1319	1291	1307	0- 10	127.9	127.9	13.5,8.58
20	1040	1052	1094	1077	1087	1054	1049	1020	10- 20	338.5	466.4	49.1,31.3
30	388.5	443.4	479.0	516.8	489.8	472.3	407.5	405.4	20- 30	347.6	814.0	85.7,54.6
40	37.42	36.37	43.33	59.24	56.00	53.00	36.28	38.64	30- 40	123.4	937.4	98.6,62.9
50	2.556	4.172	2.364	2.768	1.480	2.416	1.832	2.203	40- 50	10.48	947.8	99.8,63.6
60	0.8207	1.050	1.001	0.9824	0.6723	0.8630	0.9209	0.7679	50- 60	1.275	949.1	99.9,63.7
70	0.3067	0.3214	0.2699	0.5547	0.4667	0.5797	0.3565	0.2666	60- 70	0.6229	949.7	100,63.7
80	0.1101	0.1185	0.0864	0.3259	0.3220	0.3665	0.1967	0.1106	70- 80	0.3075	950.0	100,63.7
90	0	0	0	0	0	0	0	0	80- 90	0.1485	950.2	100,63.8
100	0	0	0	0	0	0	0	0	90-100	0	950.2	100,63.8
110	0	0	0	0	0	0	0	0	100-110	0	950.2	100,63.8
120	0	0	0	0	0	0	0	0	110-120	0	950.2	100,63.8
130	0	0	0	0	0	0	0	0	120-130	0	950.2	100,63.8
140	0	0	0	0	0	0	0	0	130-140	0	950.2	100,63.8
150	0	0	0	0	0	0	0	0	140-150	0	950.2	100,63.8
160	0	0	0	0	0	0	0	0	150-160	0	950.2	100,63.8
170	0	0	0	0	0	0	0	0	160-170	0	950.2	100,63.8
180	0	0	0	0	0	0	0	0	170-180	0	950.2	100,63.8
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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Humidity:65.0%  
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DRIVER: IT FIT 20/200-240/500 CS 350mA  
30minutes warm-up

### LUMINANCE LIMITATION CURVES

Test:U:220.18V I:0.0641A P:13.709W PF:0.9692 Freq:49.99Hz  
Lamp Flux:1490.38x1 lm

NAME: 2418.105-ACOT-70

TYPE:

WEIGHT:

SPEC.: 3000K

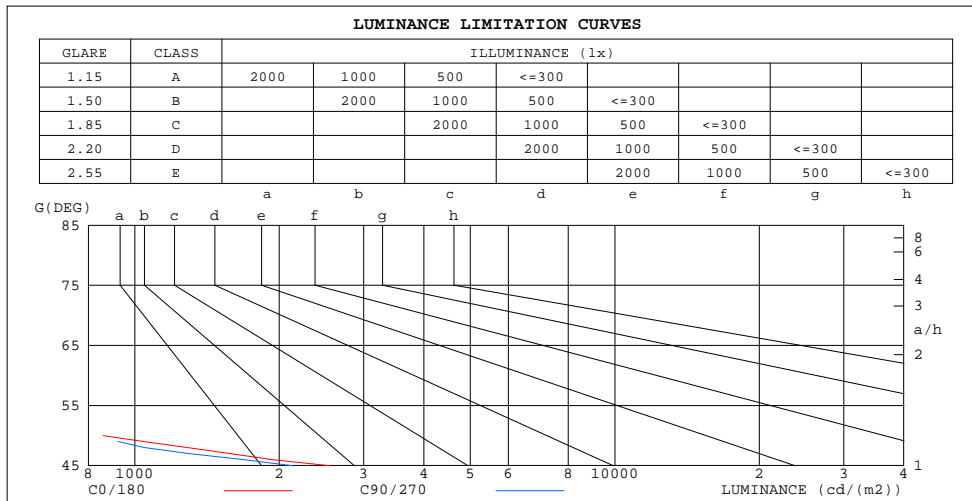
DIM.:

SERIAL No.: 2408101113

MFR.: RISE

SUR.: 0.004624m2

Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	166	149
80	137	108
75	163	129
70	194	171
65	272	286
60	355	433
55	498	539
50	860	795
45	2551	2133

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## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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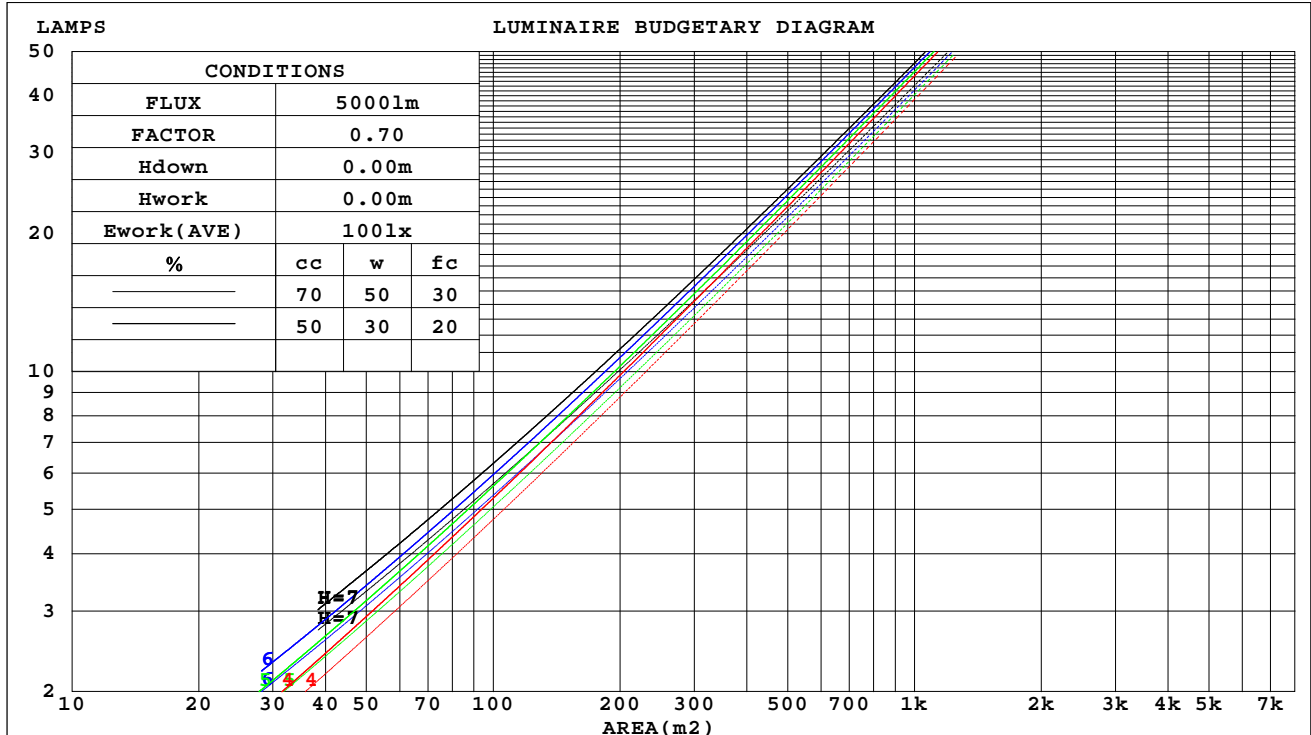
SERIAL No.: 2408101113

MFR.: RISE

SUR.: 0.004624m2

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.: 2408101113
MFR.: RISE	SUR.: 0.004624m2	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	.104	.059	.019	.100	.057	.018	.092	.053	.017	.084	.049	.016	.077	.045	.014	
2.0	.098	.054	.017	.095	.052	.016	.088	.049	.015	.082	.046	.014	.076	.043	.014	
3.0	.093	.050	.015	.090	.048	.015	.085	.046	.014	.079	.044	.013	.075	.041	.013	
4.0	.089	.046	.014	.086	.045	.013	.081	.043	.013	.077	.041	.012	.073	.039	.012	
5.0	.085	.043	.012	.082	.042	.012	.078	.041	.012	.074	.039	.012	.071	.038	.011	
6.0	.081	.041	.012	.079	.040	.011	.075	.039	.011	.072	.037	.011	.069	.036	.011	
7.0	.077	.038	.011	.076	.038	.011	.072	.037	.011	.069	.036	.010	.067	.035	.010	
8.0	.074	.036	.010	.073	.036	.010	.070	.035	.010	.067	.034	.010	.065	.033	.010	
9.0	.071	.035	.010	.070	.034	.010	.067	.033	.009	.065	.033	.009	.063	.032	.009	
10.0	.069	.033	.009	.067	.033	.009	.065	.032	.009	.063	.031	.009	.061	.031	.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	.121	.121	.121	.104	.104	.104	.071	.071	.071	.041	.041	.041	.013	.013	.013	
1.0	.108	.100	.093	.093	.086	.080	.063	.059	.055	.037	.034	.032	.012	.011	.010	
2.0	.098	.085	.073	.084	.073	.063	.058	.050	.044	.033	.029	.026	.011	.009	.008	
3.0	.090	.072	.059	.077	.062	.051	.053	.043	.036	.030	.025	.021	.010	.008	.007	
4.0	.083	.063	.048	.071	.054	.041	.049	.038	.029	.028	.022	.017	.009	.007	.006	
5.0	.077	.055	.039	.066	.048	.034	.045	.033	.024	.026	.020	.014	.008	.006	.005	
6.0	.072	.049	.033	.062	.043	.029	.043	.030	.020	.025	.018	.012	.008	.006	.004	
7.0	.068	.044	.028	.058	.038	.024	.040	.027	.017	.023	.016	.010	.008	.005	.003	
8.0	.064	.040	.024	.055	.035	.021	.038	.025	.015	.022	.014	.009	.007	.005	.003	
9.0	.061	.037	.021	.052	.032	.018	.036	.023	.013	.021	.013	.008	.007	.004	.003	
10.0	.058	.034	.018	.050	.030	.016	.035	.021	.011	.020	.012	.007	.007	.004	.002	

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30minutes warm-up

## UGR(Unified Glare Rating) Table

Test:U:220.18V I:0.0641A P:13.709W PF:0.9692 Freq:49.99Hz Lamp Flux:1490.38x1 lm										
NAME: 2418.105-ACOT-70					TYPE:			WEIGHT:		
SPEC.: 3000K					DIM.:			SERIAL No.: 2408101113		
MFR.: RISE					SUR.: 0.004624m2			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	12.4	13.2	12.6	13.4	13.5	13.8	14.7	14.0	14.8	15.0
3H	12.2	13.0	12.5	13.2	13.4	13.7	14.4	13.9	14.6	14.8
4H	12.1	12.9	12.4	13.1	13.3	13.6	14.3	13.9	14.5	14.8
6H	12.0	12.7	12.3	13.0	13.2	13.5	14.2	13.8	14.4	14.7
8H	12.0	12.6	12.3	12.9	13.2	13.5	14.1	13.8	14.4	14.6
12H	11.9	12.6	12.3	12.8	13.1	13.4	14.0	13.7	14.3	14.6
4H 2H	12.1	12.9	12.4	13.1	13.3	13.6	14.3	13.9	14.5	14.8
3H	11.9	12.6	12.3	12.8	13.1	13.4	14.0	13.7	14.3	14.6
4H	11.8	12.4	12.2	12.7	13.0	13.3	13.9	13.7	14.2	14.5
6H	11.7	12.3	12.1	12.6	12.9	13.2	13.7	13.6	14.1	14.4
8H	11.7	12.2	12.1	12.5	12.9	13.2	13.6	13.6	14.0	14.3
12H	11.6	12.1	12.1	12.4	12.8	13.1	13.5	13.5	13.9	14.3
8H 4H	11.7	12.2	12.1	12.5	12.9	13.2	13.6	13.6	14.0	14.3
6H	11.6	12.0	12.0	12.4	12.8	13.1	13.4	13.5	13.8	14.3
8H	11.5	11.9	12.0	12.3	12.7	13.0	13.3	13.4	13.8	14.2
12H	11.5	11.8	11.9	12.2	12.7	12.9	13.2	13.4	13.7	14.1
12H 4H	11.6	12.1	12.1	12.4	12.8	13.1	13.5	13.5	13.9	14.3
6H	11.5	11.9	12.0	12.3	12.7	13.0	13.3	13.4	13.8	14.2
8H	11.5	11.8	11.9	12.2	12.7	12.9	13.2	13.4	13.7	14.1
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 3.4 / -15.2					+ 5.4 / -16.3				
1.5H	+ 6.0 / -13.4					+ 8.1 / -14.9				
2.0H	+ 6.1 / - 4.7					+ 5.4 / - 4.9				

CIE Pub.117, 1490 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.4)  
Area: 0.004624 m2

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### UTILIZATION FACTORS TABLE

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SPEC.: 3000K	DIM.:	SERIAL No.: 2408101113
MFR.: RISE	SUR.: 0.004624m2	Shielding Angle:

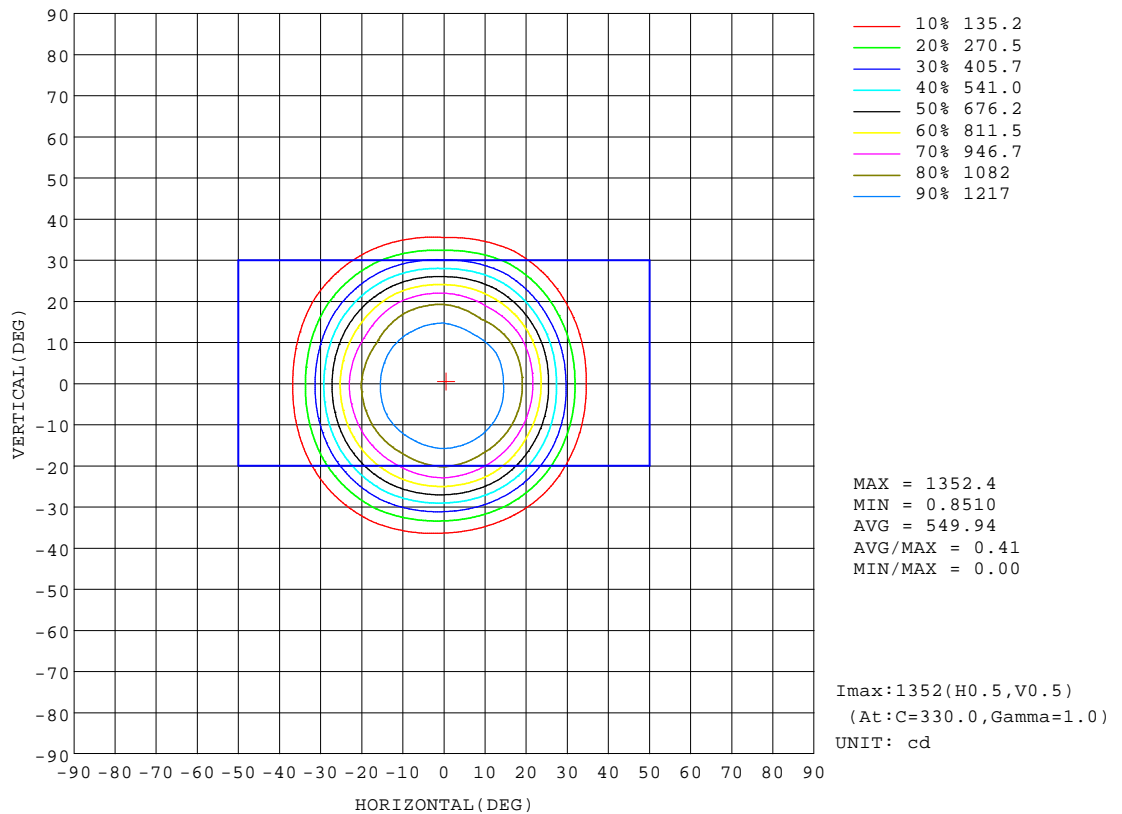
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	58	54	52	58	54	52	57	54	52	50
0.80	62	59	57	62	59	57	61	58	57	54
1.00	65	62	59	64	61	59	63	61	59	57
1.25	67	64	62	66	64	62	65	63	61	59
1.50	69	66	64	68	65	64	66	64	63	60
2.00	70	68	66	69	67	65	67	66	64	61
2.50	71	69	67	70	68	66	68	66	65	62
3.00	72	70	68	71	69	68	69	67	66	62
4.00	73	71	70	72	70	69	69	68	68	63
5.00	74	72	71	72	71	70	70	69	68	64
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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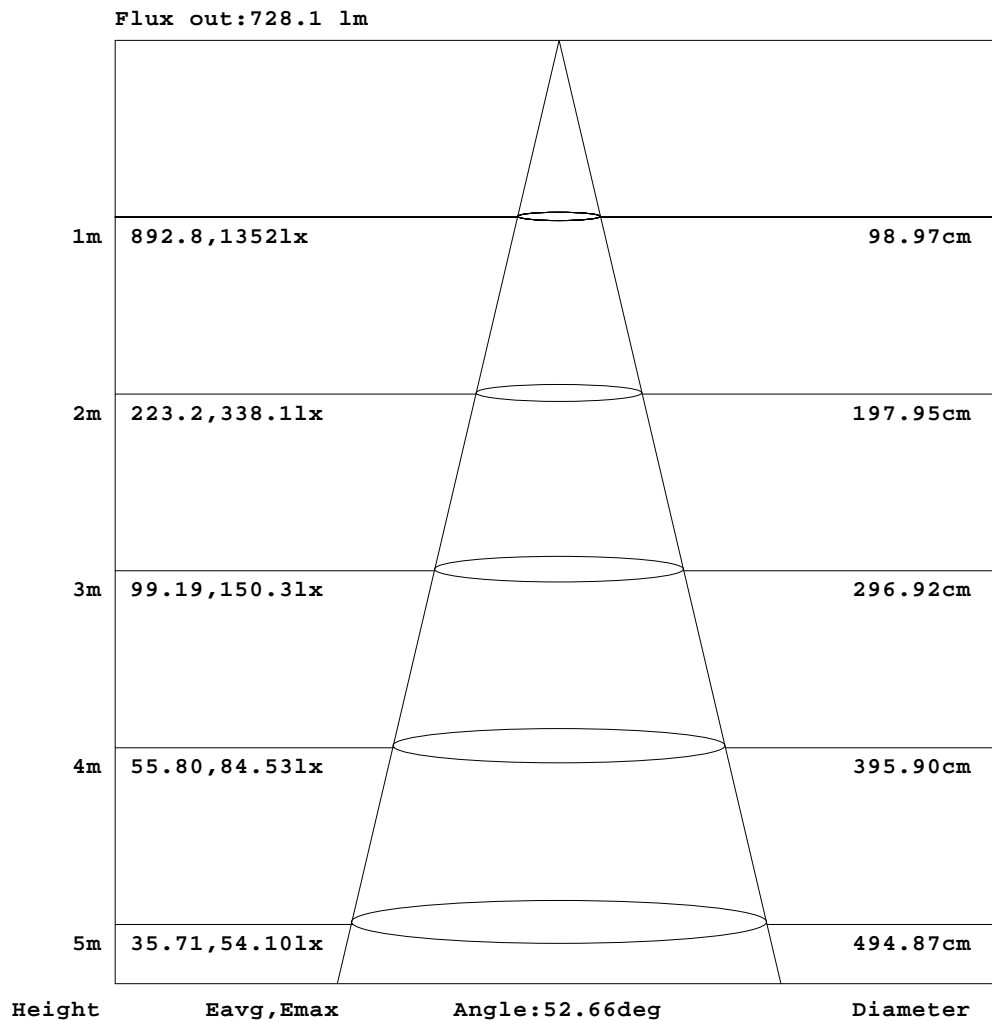


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## AAI Figure

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

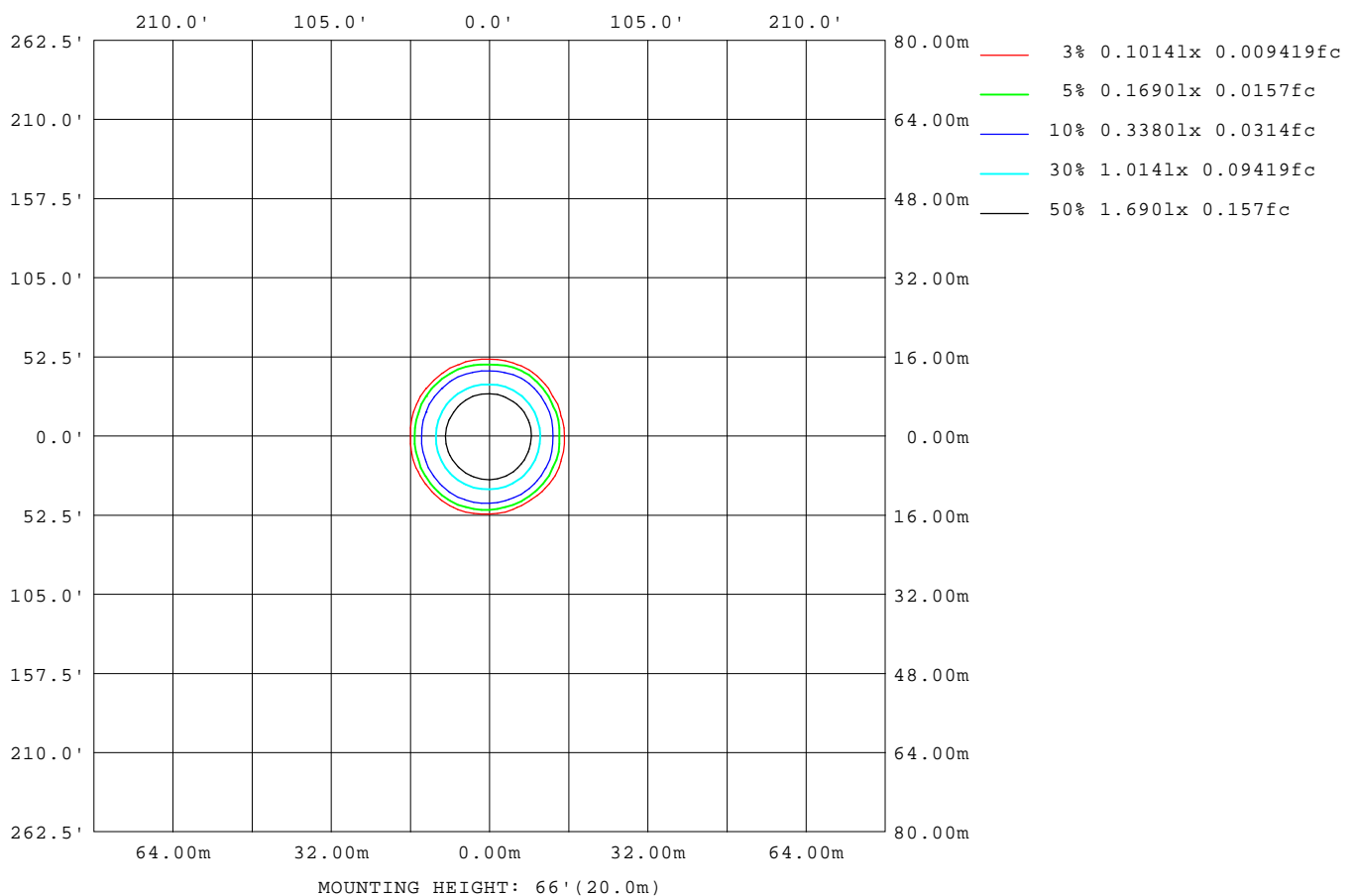
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30minutes warm-up



## ISOLUX DIAGRAM

Test:U:220.18V I:0.0641A P:13.709W PF:0.9692 Freq:49.99Hz Lamp Flux:1490.38x1 lm		
NAME: 2418.105-ACOT-70	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2408101113
MFR.: RISE	SUR.: 0.004624m2	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3 °C  
Operators: zoe  
Test Date: 2024-8-10

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-1082C 50R  
DRIVER: IT FIT 20/200-240/500 CS 350mA  
30minutes warm-up

## LED Avg.L Report

Test:U:220.18V I:0.0641A P:13.709W PF:0.9692 Freq:49.99Hz Lamp Flux:1490.38x1 lm		
NAME: 2418.105-ACOT-70	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2408101113
MFR.: RISE	SUR.: 0.004624m2	Shielding Angle:

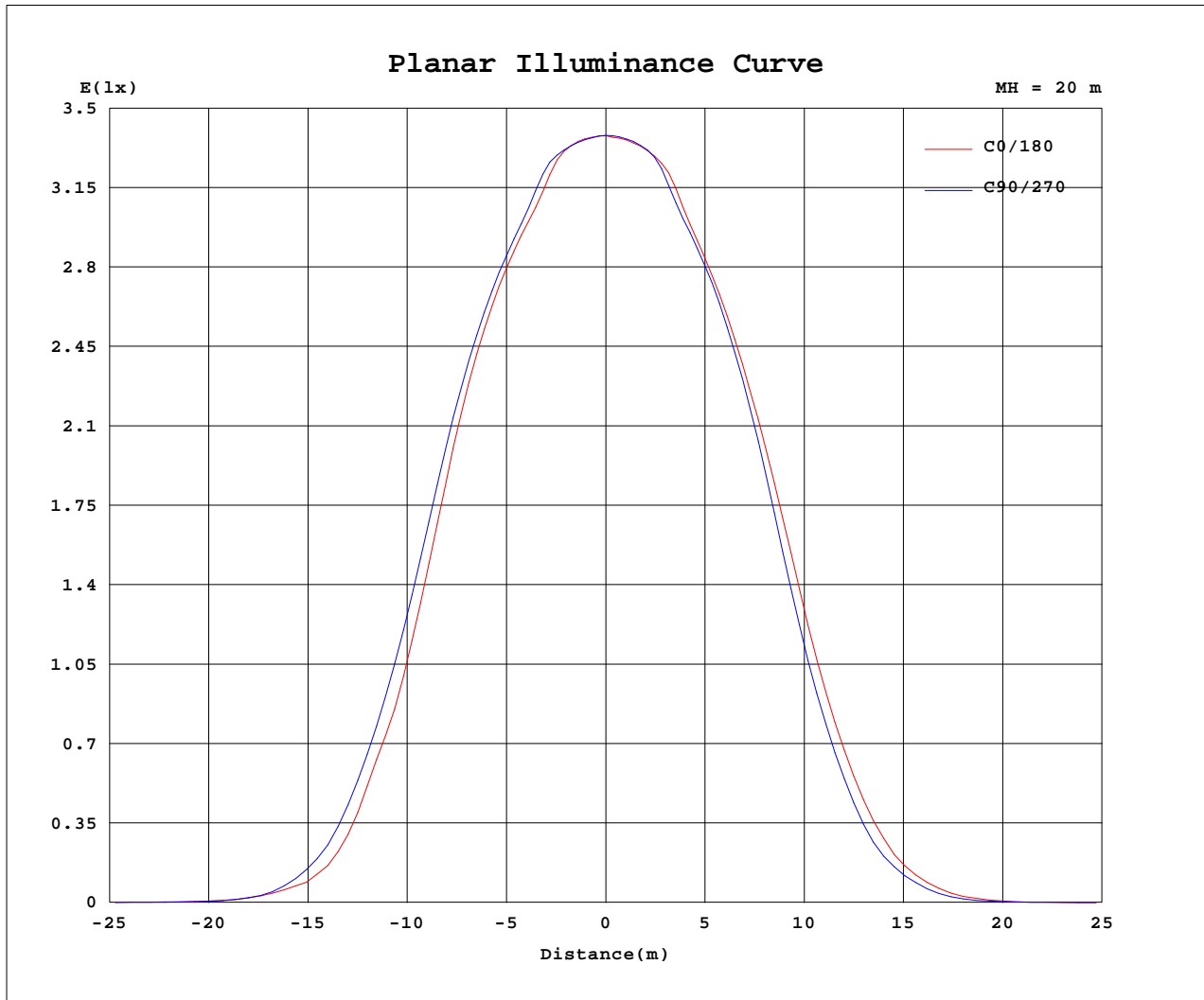
AvgL	cd/m2
L_0~180(65)av	289
L_0~180(75)av	234
L_0~180(85)av	427
L_90~270(65)av	291
L_90~270(75)av	177
L_90~270(85)av	204
L_45(65)av	339
L_45(75)av	257
L_45(85)av	368

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2024-8-10

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-1082C 50R  
DRIVER: IT FIT 20/200-240/500 CS 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: 2024-8-10

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-1082C 50R  
 DRIVER: IT FIT 20/200-240/500 CS 350mA  
 30minutes warm-up



## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.18V I:0.0641A P:13.709W PF:0.9692 Freq:49.99Hz Lamp Flux:1490.38x1 lm		
NAME: 2418.105-ACOT-70	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2408101113
MFR.: RISE	SUR.: 0.004624m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	1352	1352	1352	1352	1352	1352	1352	1352	1352	1352	1352	1352						
5	1350	1350	1351	1350	1348	1349	1349	1349	1349	1350	1350	1350						
10	1283	1310	1336	1314	1328	1332	1318	1330	1307	1291	1316	1298						
15	1207	1221	1232	1233	1230	1237	1226	1226	1213	1211	1185	1211						
20	1040	1047	1056	1094	1071	1083	1087	1043	1065	1049	1004	1036						
25	709	735	790	815	830	835	828	799	788	743	740	727						
30	388	431	456	479	519	515	490	487	458	407	425	386						
35	119	138	168	185	234	231	207	213	195	149	171	138						
40	37.4	41.7	31.0	43.3	59.9	58.5	56.0	55.7	50.3	36.3	40.5	36.7						
45	8.34	10.6	12.1	6.97	12.4	11.4	7.57	11.4	9.78	4.65	8.57	8.94						
50	2.56	3.11	5.23	2.36	2.94	2.59	1.48	2.56	2.27	1.83	2.16	2.24						
55	1.32	1.49	2.12	1.43	1.38	1.25	0.70	1.04	1.20	1.20	1.15	1.08						
60	0.82	0.96	1.14	1.00	1.01	0.95	0.67	0.78	0.94	0.92	0.83	0.71						
65	0.53	0.58	0.66	0.56	0.69	0.79	0.60	0.69	0.76	0.58	0.50	0.53						
70	0.31	0.32	0.32	0.27	0.47	0.64	0.47	0.59	0.57	0.36	0.26	0.28						
75	0.19	0.20	0.18	0.15	0.29	0.55	0.37	0.43	0.45	0.27	0.14	0.17						
80	0.11	0.13	0.10	0.09	0.23	0.42	0.32	0.37	0.36	0.20	0.10	0.12						
85	0.07	0.09	0.06	0.06	0.15	0.25	0.28	0.29	0.19	0.10	0.06	0.09						
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:25.3℃  
Operators:zoe  
Test Date:2024-8-10

Range: 0 - 180DEG  
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