

Luminaire Photograph



Light Output Ratio:	38.0%	
Luminaire Power:	14.72 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	0.25	fine grid method.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: DICK
Test Date: 2023-04-28

γ Range: 0 - 180DEG
 γ 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-30H1000-A-83 Ra: 97
LENS: HLTJ0028I HL-52 15R
DRIVER: PRO-UA420-W 350mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

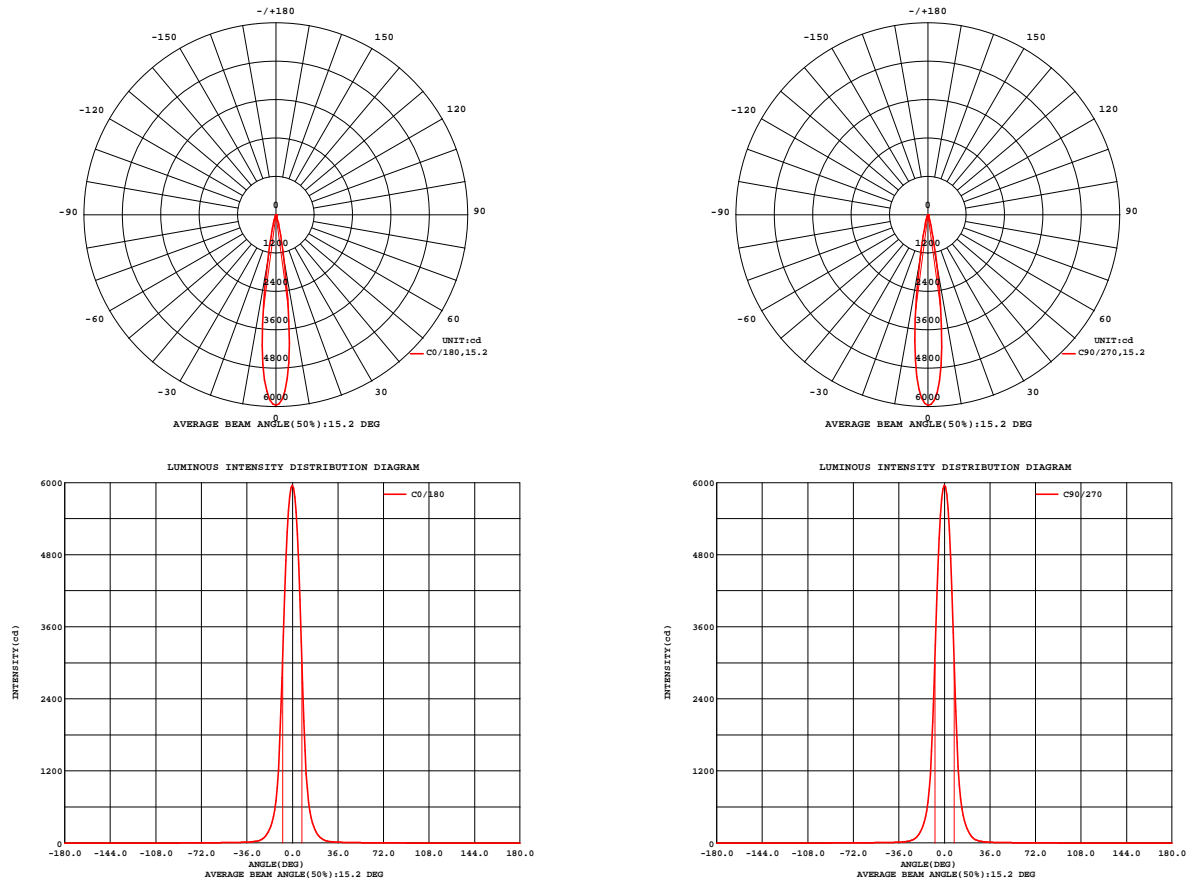


Fig. C0/C180

Fig. C90/C270

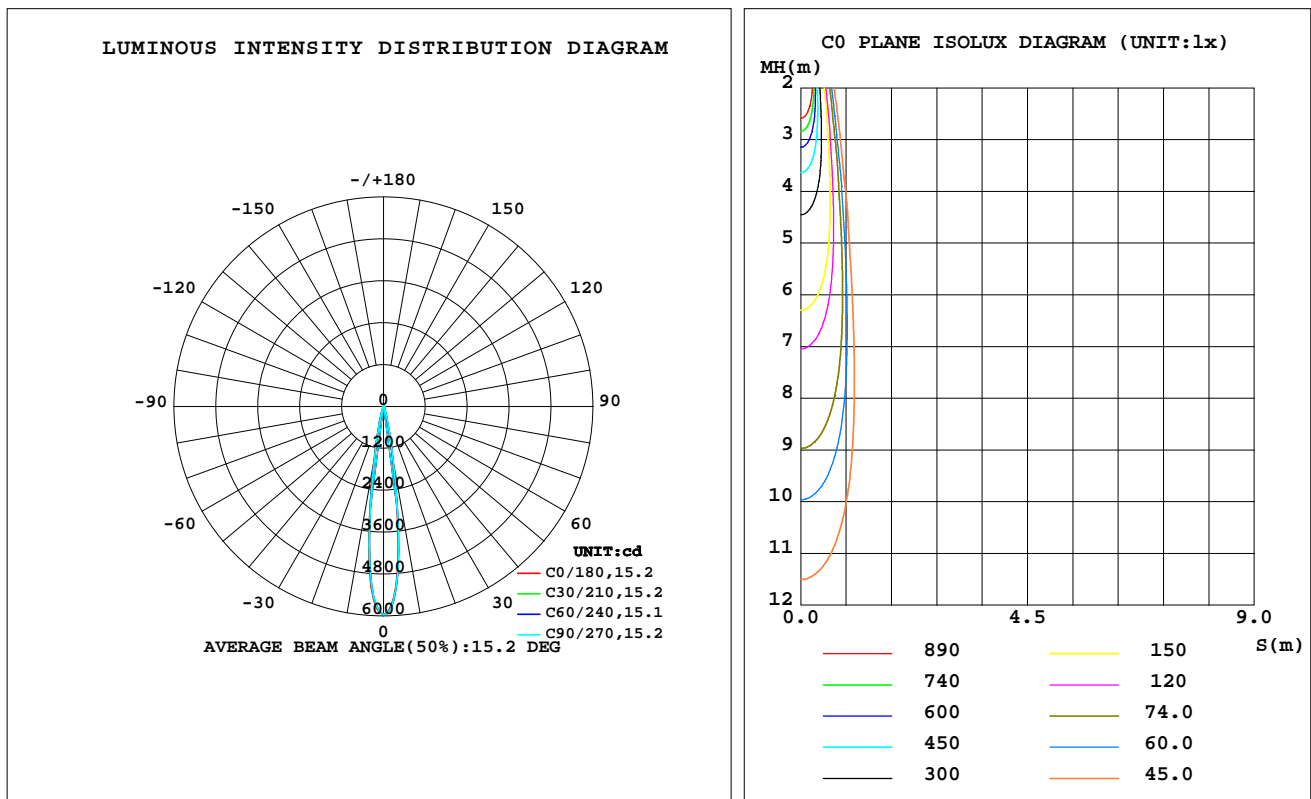
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30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.16V I:0.0698A P:14.718W PF:0.9554 Freq:49.99Hz Lamp Flux:1388.7x1 lm		
NAME: 2319.210Z-UA	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2304280534
MFR.: RISE	SUR.: 0.002374625m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 35.82 lm/W			
MODEL	BRIDGELUX	I _{max} (cd)	5955	S/MH(C0/180)	0.25
NOMINAL POWER(W)	15	LOR(%)	38.0	S/MH(C90/270)	0.25
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	527.25	η UP,DN(C0-180)	0.0,19.3
NOMINAL FLUX(lm)	1388.7	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,18.7
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	220	η down(%)	38.0	CIBSE SHR MAX	0.25



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30minutes warm-up

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1538	1635	1677	1594	1611	1534	1526	1514	0- 10	334.7	334.7	63.5,24.1
20	142.8	151.1	158.2	149.7	149.8	148.4	147.4	142.3	10- 20	141.7	476.4	90.4,34.3
30	23.61	23.95	23.58	23.86	23.90	23.80	23.57	22.55	20- 30	27.28	503.7	95.5,36.3
40	10.38	10.57	9.838	10.66	10.79	10.61	10.65	10.75	30- 40	9.500	513.2	97.3,37
50	6.503	7.236	6.258	6.662	6.975	6.526	7.000	7.006	40- 50	6.511	519.7	98.6,37.4
60	3.584	4.072	3.670	3.868	4.055	3.732	3.931	3.812	50- 60	4.817	524.5	99.5,37.8
70	0.8817	1.063	0.9725	1.035	1.044	0.9372	1.016	0.8958	60- 70	2.097	526.6	99.9,37.9
80	0.2216	0.2230	0.2160	0.2513	0.2302	0.2176	0.2420	0.1985	70- 80	0.5692	527.2	100,38
90	0	0	0	0	0	0	0	0	80- 90	0.0793	527.3	100,38
100	0	0	0	0	0	0	0	0	90-100	0	527.3	100,38
110	0	0	0	0	0	0	0	0	100-110	0	527.3	100,38
120	0	0	0	0	0	0	0	0	110-120	0	527.3	100,38
130	0	0	0	0	0	0	0	0	120-130	0	527.3	100,38
140	0	0	0	0	0	0	0	0	130-140	0	527.3	100,38
150	0	0	0	0	0	0	0	0	140-150	0	527.3	100,38
160	0	0	0	0	0	0	0	0	150-160	0	527.3	100,38
170	0	0	0	0	0	0	0	0	160-170	0	527.3	100,38
180	0	0	0	0	0	0	0	0	170-180	0	527.3	100,38
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:BXRE-30H1000-A-83 Ra:97
LENS: HLTJ0028I HL-52 15R
DRIVER:PRO-UA420-W 350mA
30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:220.16V I:0.0698A P:14.718W PF:0.9554 Freq:49.99Hz
Lamp Flux:1388.7x1 lm

NAME: 2319.210Z-UA

TYPE:

WEIGHT:

SPEC.: 3000K

DIM.:

SERIAL No.: 2304280534

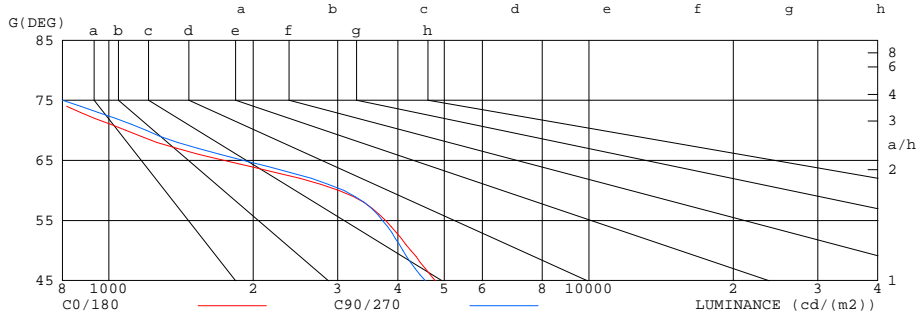
MFR.: RISE

SUR.: 0.002374625m2

Shielding Angle:

LUMINANCE LIMITATION CURVES

GLARE	CLASS	ILLUMINANCE (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300



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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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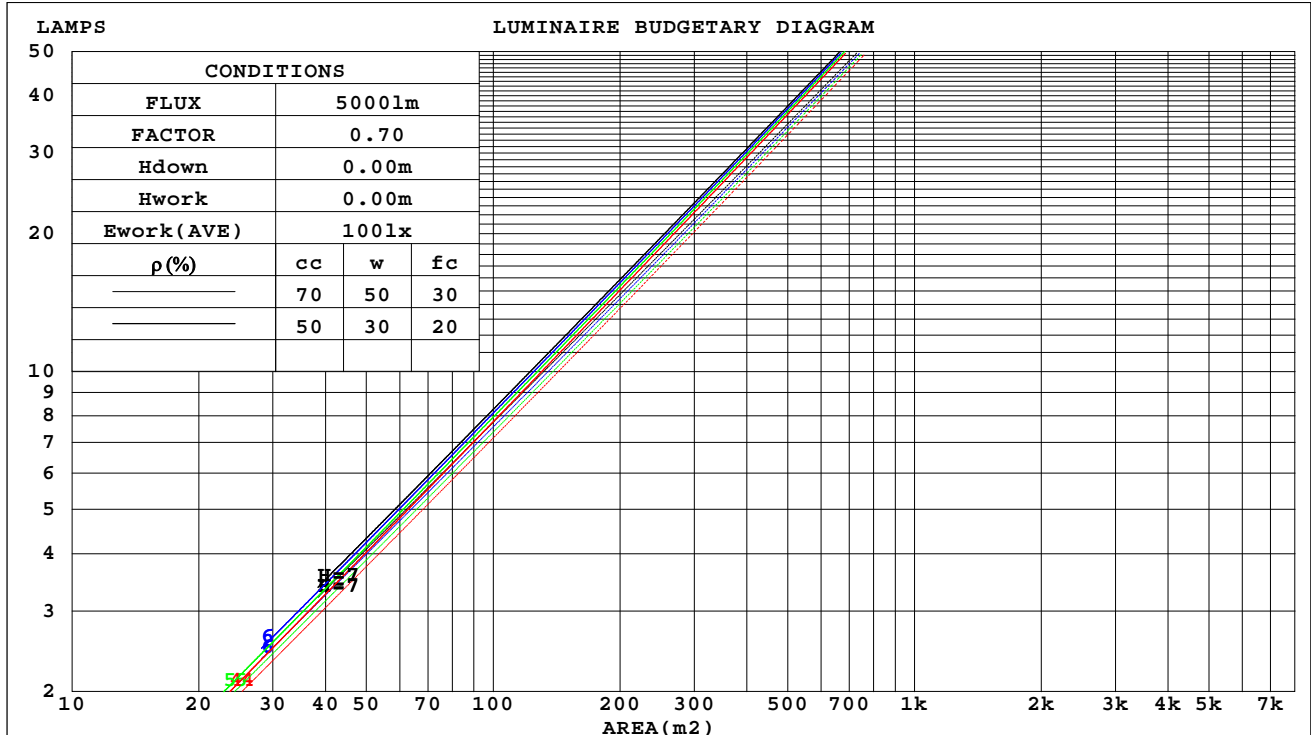
SERIAL No.: 2304280534

MFR.: RISE

SUR.: 0.002374625m2

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															



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WEC AND CCEC

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NAME: 2319.210Z-UA	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2304280534
MFR.: RISE	SUR.: 0.002374625m2	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.045	.026	.008	.043	.024	.008	.038	.022	.007	.034	.020	.006	.030	.017	.006		
2.0	.041	.023	.007	.039	.022	.007	.036	.020	.006	.032	.018	.006	.029	.016	.005		
3.0	.038	.020	.006	.036	.019	.006	.033	.018	.005	.030	.017	.005	.028	.015	.005		
4.0	.035	.018	.005	.034	.018	.005	.031	.016	.005	.029	.015	.005	.026	.014	.004		
5.0	.033	.017	.005	.031	.016	.005	.029	.015	.004	.027	.014	.004	.025	.013	.004		
6.0	.030	.015	.004	.029	.015	.004	.027	.014	.004	.026	.013	.004	.024	.013	.004		
7.0	.028	.014	.004	.028	.014	.004	.026	.013	.004	.024	.013	.004	.023	.012	.004		
8.0	.027	.013	.004	.026	.013	.004	.025	.012	.004	.023	.012	.003	.022	.011	.003		
9.0	.025	.012	.003	.025	.012	.003	.023	.012	.003	.022	.011	.003	.021	.011	.003		
10.0	.024	.012	.003	.023	.011	.003	.022	.011	.003	.021	.011	.003	.020	.010	.003		

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)										
0.0	.072	.072	.072	.062	.062	.062	.042	.042	.042	.024	.024	.024	.008	.008	.008		
1.0	.063	.060	.057	.054	.051	.049	.037	.035	.034	.021	.020	.020	.007	.007	.006		
2.0	.056	.050	.046	.048	.043	.039	.033	.030	.027	.019	.017	.016	.006	.006	.005		
3.0	.050	.043	.037	.043	.037	.032	.029	.026	.023	.017	.015	.013	.005	.005	.004		
4.0	.045	.037	.031	.039	.032	.027	.026	.022	.019	.015	.013	.011	.005	.004	.004		
5.0	.041	.032	.026	.035	.028	.023	.024	.019	.016	.014	.011	.010	.004	.004	.003		
6.0	.037	.028	.022	.032	.024	.019	.022	.017	.014	.013	.010	.008	.004	.003	.003		
7.0	.034	.025	.019	.029	.022	.017	.020	.015	.012	.012	.009	.007	.004	.003	.002		
8.0	.031	.022	.016	.027	.019	.014	.018	.014	.010	.011	.008	.006	.003	.003	.002		
9.0	.029	.020	.014	.025	.017	.013	.017	.012	.009	.010	.007	.005	.003	.002	.002		
10.0	.027	.018	.013	.023	.016	.011	.016	.011	.008	.009	.007	.005	.003	.002	.002		

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30minutes warm-up

UGR(Unified Glare Rating) Table

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SPEC.: 3000K					DIM.:			SERIAL No.: 2304280534		
MFR.: RISE					SUR.: 0.002374625m2			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	6.9	7.4	7.1	7.5	7.7	6.8	7.3	7.0	7.4	7.6
3H	7.1	7.6	7.3	7.7	7.9	7.0	7.5	7.2	7.7	7.9
4H	7.1	7.5	7.3	7.7	7.9	7.0	7.5	7.3	7.7	7.9
6H	7.0	7.5	7.3	7.7	7.9	7.0	7.4	7.2	7.7	7.9
8H	7.0	7.4	7.3	7.7	7.9	6.9	7.4	7.2	7.6	7.9
12H	6.9	7.4	7.2	7.6	7.9	6.9	7.3	7.2	7.6	7.8
4H 2H	7.1	7.6	7.4	7.8	8.0	7.1	7.5	7.3	7.7	7.9
3H	7.4	7.8	7.7	8.0	8.3	7.3	7.7	7.6	8.0	8.3
4H	7.4	7.8	7.7	8.1	8.4	7.3	7.7	7.7	8.0	8.3
6H	7.3	7.7	7.7	8.0	8.3	7.3	7.6	7.6	8.0	8.3
8H	7.3	7.6	7.7	8.0	8.3	7.2	7.6	7.6	7.9	8.3
12H	7.2	7.5	7.6	7.9	8.3	7.2	7.5	7.6	7.9	8.2
8H 4H	7.3	7.6	7.7	8.0	8.3	7.2	7.6	7.6	7.9	8.3
6H	7.2	7.5	7.7	7.9	8.3	7.2	7.5	7.6	7.9	8.3
8H	7.2	7.5	7.7	7.9	8.3	7.2	7.4	7.6	7.8	8.2
12H	7.2	7.4	7.6	7.8	8.3	7.1	7.3	7.6	7.7	8.2
12H 4H	7.2	7.5	7.6	7.9	8.3	7.2	7.5	7.6	7.9	8.2
6H	7.2	7.4	7.6	7.9	8.3	7.1	7.4	7.6	7.8	8.2
8H	7.2	7.4	7.6	7.8	8.3	7.1	7.3	7.6	7.7	8.2
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.6 / - 0.9					+ 0.7 / - 0.9				
1.5H	+ 0.5 / - 0.7					+ 0.4 / - 0.6				
2.0H	+ 0.9 / - 1.9					+ 0.9 / - 1.9				

CIE Pub.117, 1389 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.1)
Area: 0.00237463 m2

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UTILIZATION FACTORS TABLE

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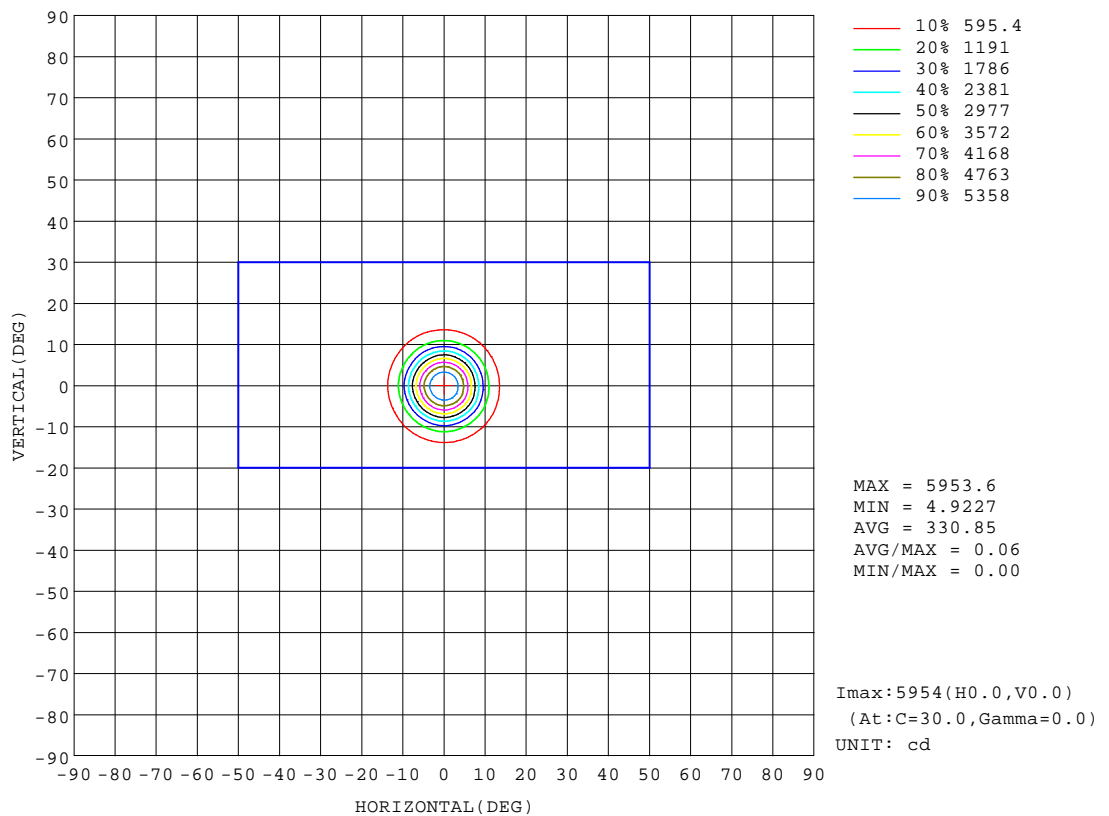
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	34	32	31	34	32	31	34	32	30	29
0.80	37	35	33	37	35	33	36	34	33	32
1.00	38	36	35	38	36	35	37	36	35	33
1.25	40	38	37	39	38	37	39	37	36	35
1.50	41	39	38	40	39	38	39	38	37	36
2.00	42	40	39	41	40	39	40	39	38	36
2.50	42	41	40	42	40	39	40	39	39	36
3.00	43	41	40	42	41	40	41	40	39	37
4.00	43	42	42	43	42	41	41	41	40	37
5.00	44	43	42	43	42	42	42	41	41	38
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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MFR.: RISE	SUR.: 0.002374625m2	Shielding Angle:

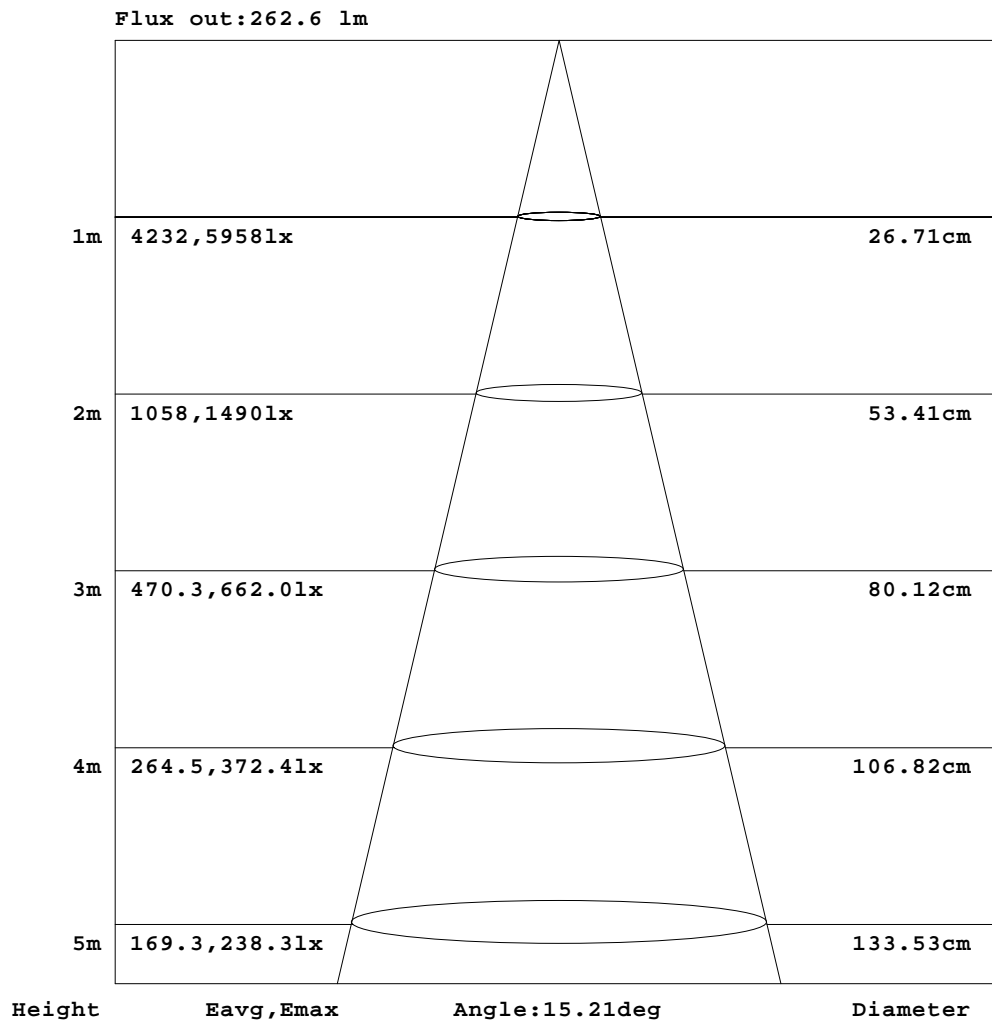


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AAI Figure

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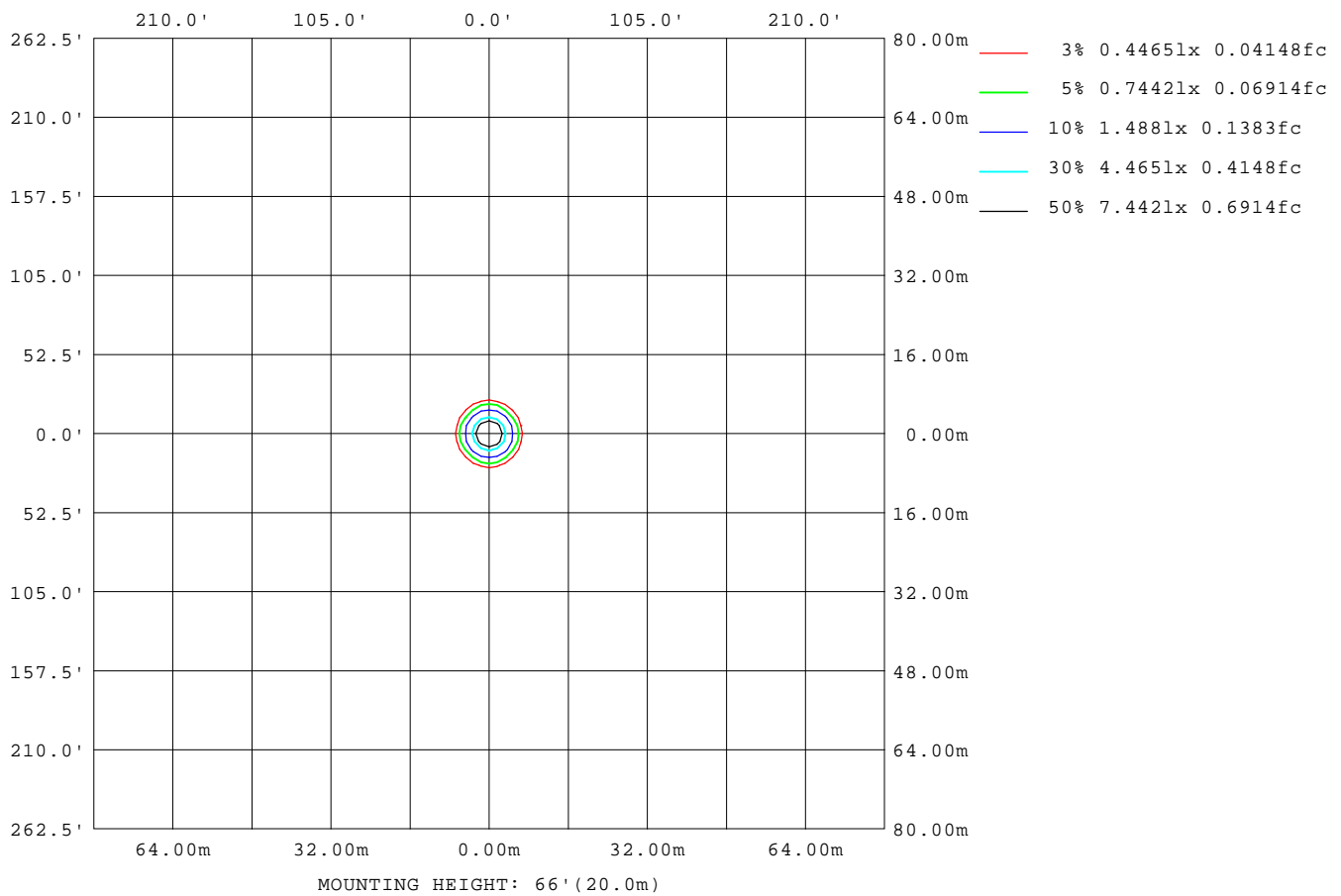
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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MFR.: RISE	SUR.: 0.002374625m2	Shielding Angle:



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Test Speed: HIGH
Temperature:25.3 °C
Operators:DICK
Test Date:2023-04-28

γ Range: 0 - 180DEG
γ 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-30H1000-A-83 Ra:97
LENS: HLTJ0028I HL-52 15R
DRIVER:PRO-UA420-W 350mA
30minutes warm-up

LED Avg.L Report

Test:U:220.16V I:0.0698A P:14.718W PF:0.9554 Freq:49.99Hz Lamp Flux:1388.7x1 lm		
NAME: 2319.210Z-UA	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2304280534
MFR.: RISE	SUR.: 0.002374625m2	Shielding Angle:

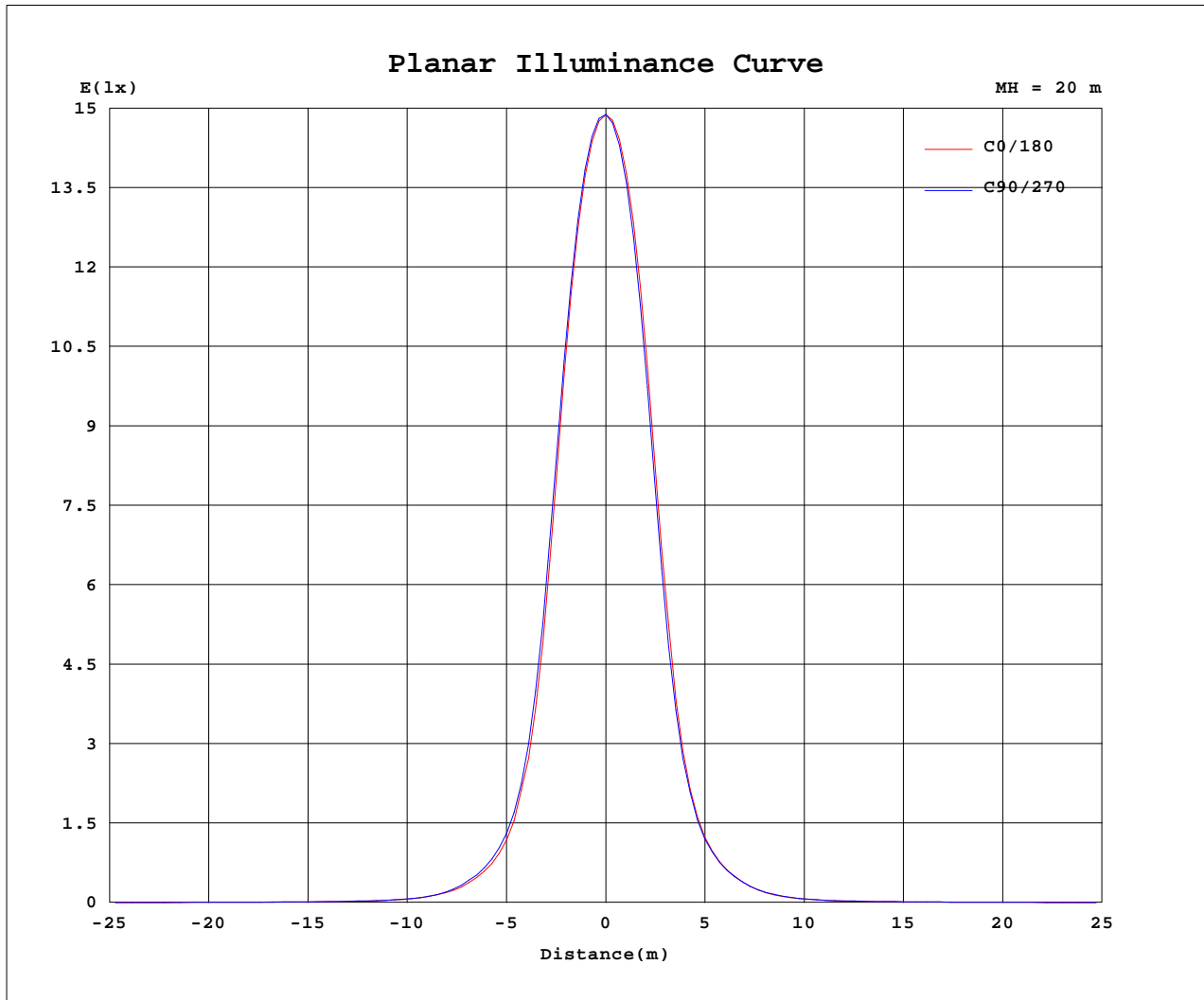
AvgL	cd/m2
L_0~180(65)av	1920
L_0~180(75)av	821
L_0~180(85)av	285
L_90~270(65)av	1942
L_90~270(75)av	839
L_90~270(85)av	298
L_45(65)av	1957
L_45(75)av	825
L_45(85)av	236

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DICK
Test Date:2023-04-28

γ Range: 0 - 180DEG
γ 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-30H1000-A-83 Ra:97
LENS: HLTJ0028I HL-52 15R
DRIVER:PRO-UA420-W 350mA
30minutes warm-up

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3 °C
 Operators: DICK
 Test Date: 2023-04-28

γ Range: 0 - 180DEG
 γ 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-30H1000-A-83 Ra: 97
 LENS: HLTJ0028I HL-52 15R
 DRIVER: PRO-UA420-W 350mA
 30minutes warm-up



LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.16V I:0.0698A P:14.718W PF:0.9554 Freq:49.99Hz Lamp Flux:1388.7x1 lm		
NAME: 2319.210Z-UA	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2304280534
MFR.: RISE	SUR.: 0.002374625m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	5955	5955	5955	5955	5955	5955	5955	5955	5955	5955	5955	5955						
5	4651	4762	4750	4733	4696	4671	4705	4604	4554	4563	4564	4611						
10	1538	1635	1635	1677	1609	1579	1611	1539	1529	1526	1515	1513						
15	416	438	449	461	439	430	432	419	428	424	417	409						
20	143	149	153	158	151	148	150	147	149	147	145	140						
25	50.2	51.4	51.8	51.8	50.9	50.1	50.8	51.2	52.2	52.3	51.0	48.2						
30	23.6	24.0	23.9	23.6	24.0	23.7	23.9	23.7	23.9	23.6	22.9	22.2						
35	14.7	14.6	14.4	14.0	14.5	14.9	14.8	14.6	14.9	14.5	14.2	14.3						
40	10.4	10.6	10.6	9.84	10.3	11.0	10.8	10.4	10.8	10.6	10.8	10.7						
45	8.05	8.66	8.78	7.67	7.80	8.53	8.54	8.05	8.19	8.50	9.01	8.27						
50	6.50	7.25	7.22	6.26	6.31	7.02	6.97	6.52	6.54	7.00	7.36	6.65						
55	5.14	5.82	5.69	5.07	5.11	5.67	5.63	5.26	5.21	5.56	5.74	5.29						
60	3.58	4.14	4.01	3.67	3.66	4.07	4.06	3.78	3.69	3.93	3.89	3.74						
65	1.74	2.11	2.05	1.92	1.87	2.16	2.11	1.95	1.84	1.98	1.87	1.82						
70	0.88	1.09	1.03	0.97	0.94	1.13	1.04	0.96	0.91	1.02	0.89	0.90						
75	0.46	0.56	0.52	0.49	0.50	0.58	0.54	0.51	0.47	0.54	0.45	0.47						
80	0.22	0.23	0.21	0.22	0.23	0.27	0.23	0.23	0.21	0.24	0.18	0.21						
85	0.06	0.05	0.05	0.05	0.05	0.07	0.06	0.05	0.05	0.07	0.04	0.05						
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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