

Luminaire Photograph



Light Output Ratio:	45.2%	
Luminaire Power:	20.56 W	
SHR Nominal:	0.75	Calculated using the TM5
SHR Maximum:	0.75	fine grid method.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: zoe
Test Date: 2023-06-27

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-30H1000-A-83 Ra: 97
LENS: HLTJ00281 HL-52 55R+SG-004
DRIVER: RMS-20-500AS 500mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

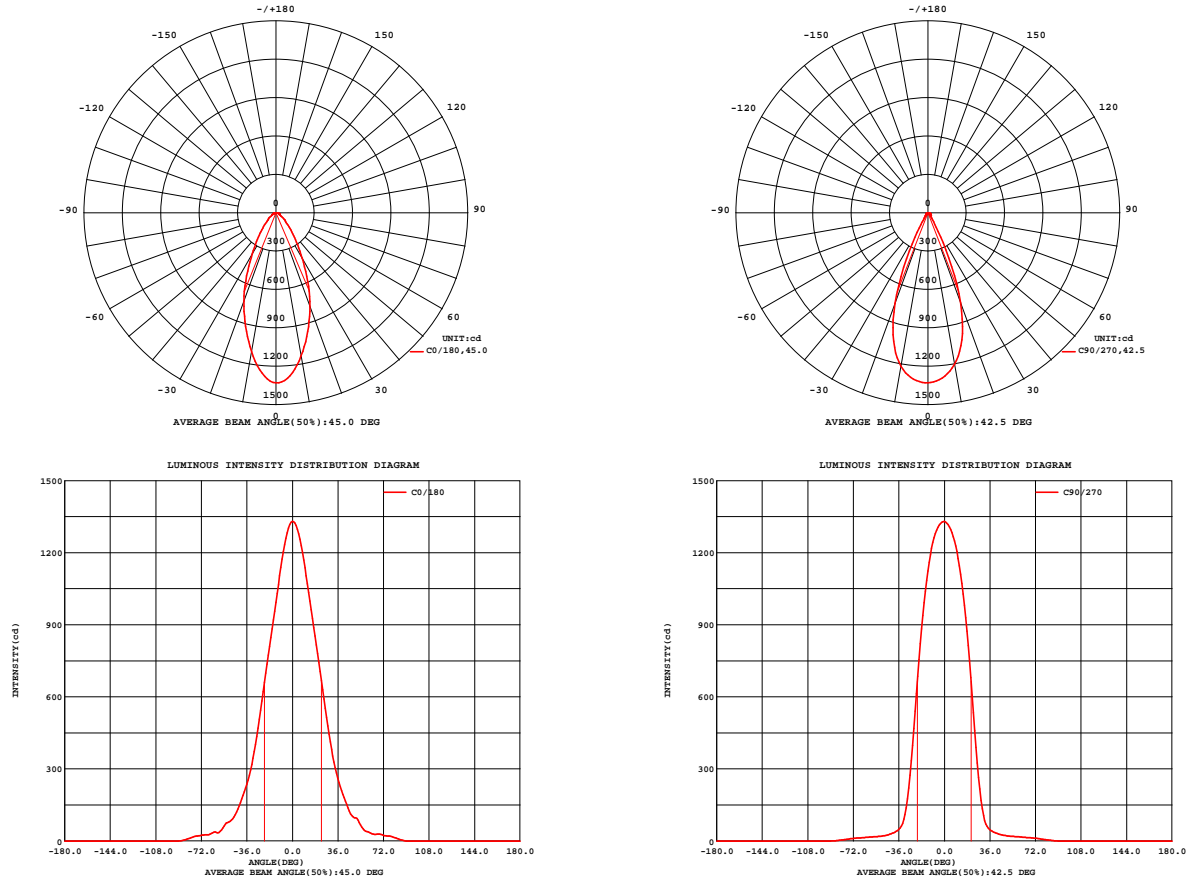


Fig. C0/C180

Fig. C90/C270

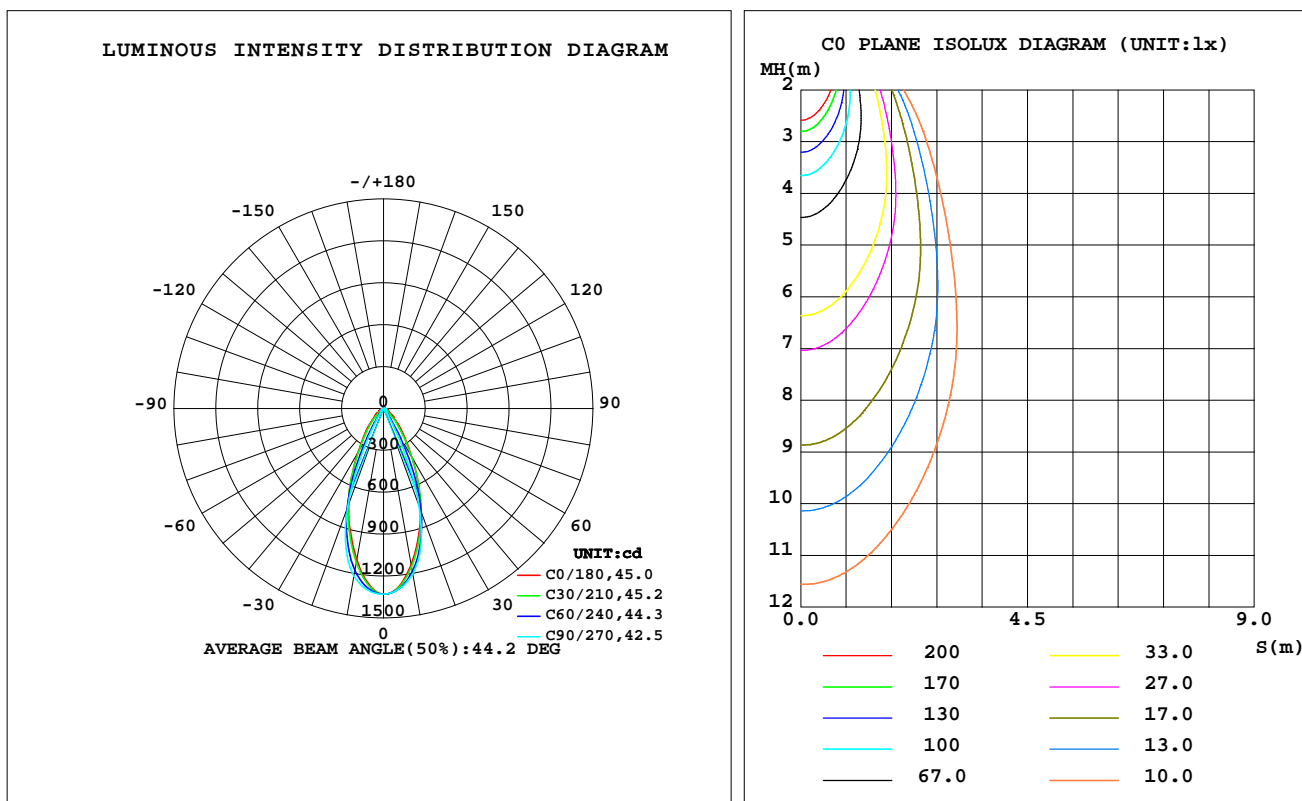
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3 °C
Operators:zoe
Test Date:2023-06-27

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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: HLTJ00281 HL-52 55R+SG-004
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30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.09V I:0.0983A P:20.559W PF:0.9470 Freq:49.99Hz Lamp Flux:1877.8x1 lm		
NAME: 2319.201Z-AD3-500	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2306270852
MFR.: RISE	SUR.: 0.002826m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 41.27 lm/W			
MODEL	Brideglux	Imax(cd)	1330	S/MH(C0/180)	0.68
NOMINAL POWER(W)	20	LOR(%)	45.2	S/MH(C90/270)	0.64
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	848.38	UP,DN(C0-180)	0.0,22.8
NOMINAL FLUX(lm)	1877.8	CIE CLASS	DIRECT	UP,DN(C180-360)	0.0,22.4
LAMPS INSIDE	1	up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	220	down(%)	45.2	CIBSE SHR MAX	0.75



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ZONAL FLUX DIAGRAM

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	C0	C45	C90	C135	C180	C225	C270	C315		zone	total	%lum,lamp
10	1137	1169	1203	1145	1103	1151	1219	1170	0- 10	118.6	118.6	14,6.32
20	779.3	790.2	749.0	757.1	736.0	754.2	755.2	786.4	10- 20	270.7	389.3	45.9,20.7
30	412.5	325.9	133.3	313.8	372.2	295.0	138.3	344.7	20- 30	236.1	625.5	73.7,33.3
40	194.3	102.4	34.88	102.3	174.6	92.96	34.33	113.9	30- 40	111.5	736.9	86.9,39.2
50	96.56	37.14	21.20	39.00	78.85	33.06	19.83	43.19	40- 50	53.02	790.0	93.1,42.1
60	37.73	19.52	16.77	19.78	35.75	17.39	15.64	19.88	50- 60	27.56	817.5	96.4,43.5
70	27.92	10.28	12.50	11.15	24.73	9.168	11.67	11.36	60- 70	16.67	834.2	98.3,44.4
80	15.57	5.521	5.649	5.416	13.61	4.415	5.013	5.761	70- 80	10.93	845.1	99.6,45
90	0	0	0	0	0	0	0	0	80- 90	3.245	848.4	100,45.2
100	0	0	0	0	0	0	0	0	90-100	0	848.4	100,45.2
110	0	0	0	0	0	0	0	0	100-110	0	848.4	100,45.2
120	0	0	0	0	0	0	0	0	110-120	0	848.4	100,45.2
130	0	0	0	0	0	0	0	0	120-130	0	848.4	100,45.2
140	0	0	0	0	0	0	0	0	130-140	0	848.4	100,45.2
150	0	0	0	0	0	0	0	0	140-150	0	848.4	100,45.2
160	0	0	0	0	0	0	0	0	150-160	0	848.4	100,45.2
170	0	0	0	0	0	0	0	0	160-170	0	848.4	100,45.2
180	0	0	0	0	0	0	0	0	170-180	0	848.4	100,45.2
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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Test Distance:3.160m [K=1.0000]
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30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:220.09V I:0.0983A P:20.559W PF:0.9470 Freq:49.99Hz
Lamp Flux:1877.8x1 lm

NAME: 2319.201Z-AD3-500

TYPE:

WEIGHT:

SPEC.: 3000K

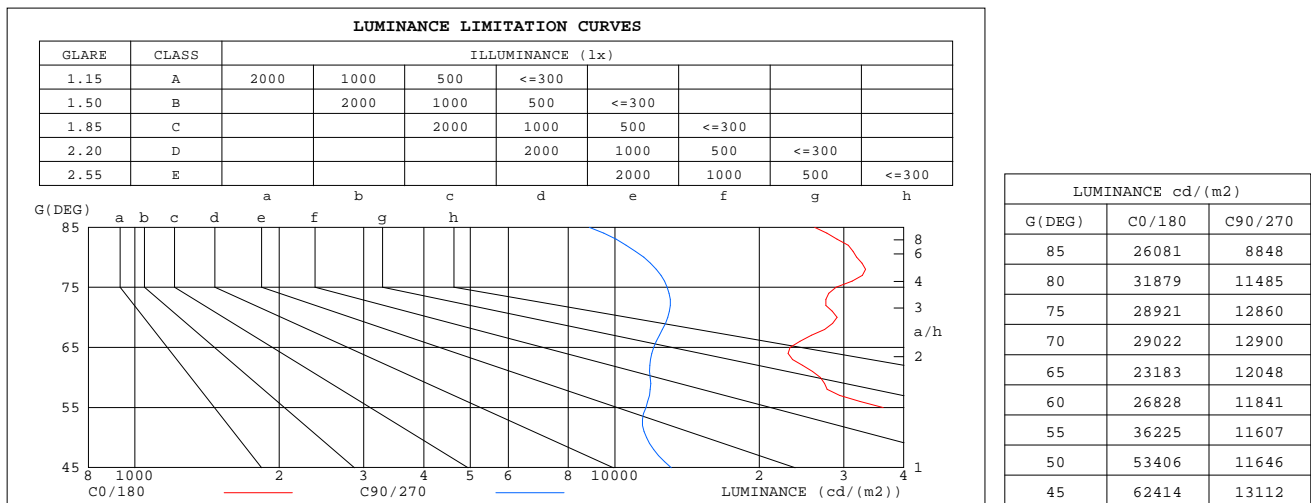
DIM.:

SERIAL No.: 2306270852

MFR.: RISE

SUR.: 0.002826m2

Shielding Angle:



C Range: 0 - 360DEG
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.: 3000K

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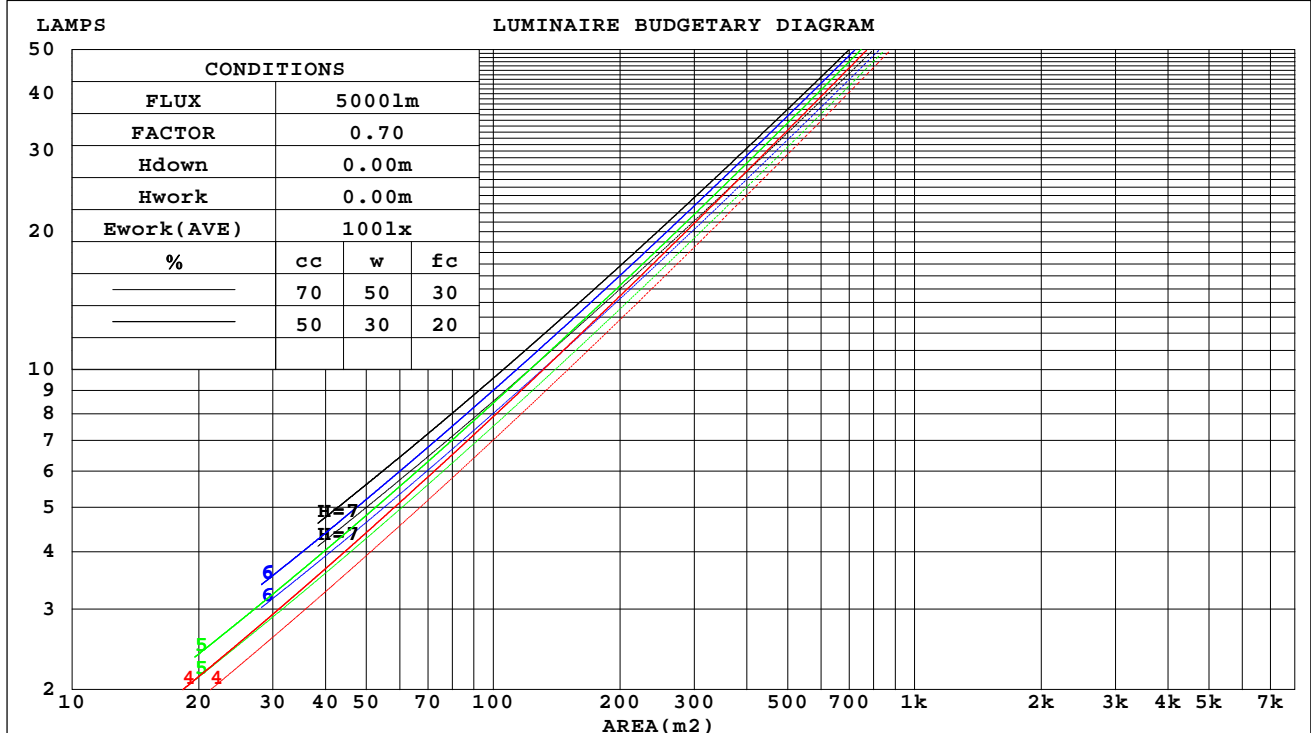
SERIAL No.: 2306270852

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															



WEC AND CCEC

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SPEC.: 3000K	DIM.:	SERIAL No.: 2306270852
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	.085	.048	.015	.082	.047	.015	.076	.044	.014	.071	.041	.013	.066	.038	.012	
2.0	.080	.044	.014	.078	.043	.013	.073	.041	.013	.069	.038	.012	.064	.036	.011	
3.0	.076	.040	.012	.073	.039	.012	.069	.038	.011	.066	.036	.011	.062	.034	.011	
4.0	.071	.037	.011	.069	.036	.011	.066	.035	.010	.063	.034	.010	.059	.032	.010	
5.0	.067	.034	.010	.066	.034	.010	.063	.033	.010	.060	.031	.009	.057	.030	.009	
6.0	.064	.032	.009	.062	.031	.009	.060	.031	.009	.057	.030	.009	.055	.029	.009	
7.0	.061	.030	.008	.059	.030	.008	.057	.029	.008	.055	.028	.008	.052	.027	.008	
8.0	.058	.028	.008	.056	.028	.008	.054	.027	.008	.052	.027	.008	.050	.026	.008	
9.0	.055	.027	.007	.054	.026	.007	.052	.026	.007	.050	.025	.007	.049	.025	.007	
10.0	.052	.025	.007	.052	.025	.007	.050	.024	.007	.048	.024	.007	.047	.024	.007	

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	.086	.086	.086	.074	.074	.074	.050	.050	.050	.029	.029	.029	.009	.009	.009	
1.0	.078	.071	.065	.066	.061	.056	.045	.042	.039	.026	.024	.023	.008	.008	.007	
2.0	.071	.060	.051	.061	.052	.044	.042	.036	.030	.024	.021	.018	.008	.007	.006	
3.0	.065	.051	.040	.056	.044	.035	.038	.031	.024	.022	.018	.014	.007	.006	.005	
4.0	.061	.045	.033	.052	.039	.028	.036	.027	.020	.021	.016	.012	.007	.005	.004	
5.0	.057	.039	.027	.049	.034	.023	.034	.024	.016	.019	.014	.010	.006	.005	.003	
6.0	.053	.035	.022	.046	.031	.020	.032	.021	.014	.018	.013	.008	.006	.004	.003	
7.0	.050	.032	.019	.043	.028	.017	.030	.019	.012	.017	.011	.007	.006	.004	.002	
8.0	.047	.029	.016	.041	.025	.014	.028	.018	.010	.016	.010	.006	.005	.003	.002	
9.0	.045	.027	.014	.039	.023	.012	.027	.016	.009	.016	.010	.005	.005	.003	.002	
10.0	.043	.025	.012	.037	.021	.011	.026	.015	.008	.015	.009	.005	.005	.003	.002	

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30minutes warm-up

UGR(Unified Glare Rating) Table

Test:U:220.09V I:0.0983A P:20.559W PF:0.9470 Freq:49.99Hz Lamp Flux:1877.8x1 lm										
NAME: 2319.201Z-AD3-500					TYPE:			WEIGHT:		
SPEC.: 3000K					DIM.:			SERIAL No.: 2306270852		
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	20.3	21.2	20.5	21.4	21.6	13.7	14.7	14.0	14.9	15.0
3H	20.9	21.8	21.2	22.0	22.2	14.9	15.8	15.1	16.0	16.2
4H	21.4	22.2	21.7	22.4	22.7	15.6	16.4	15.8	16.6	16.8
6H	22.0	22.8	22.3	23.0	23.3	16.1	16.9	16.4	17.1	17.4
8H	22.2	23.0	22.5	23.2	23.5	16.3	17.0	16.6	17.3	17.5
12H	22.3	23.1	22.7	23.3	23.6	16.3	17.1	16.7	17.3	17.6
4H 2H	20.1	21.0	20.4	21.2	21.4	14.3	15.1	14.6	15.3	15.6
3H	20.9	21.6	21.2	21.9	22.2	15.5	16.2	15.8	16.5	16.8
4H	21.4	22.1	21.8	22.4	22.7	16.3	17.0	16.6	17.3	17.6
6H	22.2	22.8	22.6	23.2	23.5	17.0	17.6	17.3	17.9	18.2
8H	22.5	23.1	22.9	23.4	23.8	17.2	17.7	17.6	18.1	18.5
12H	22.7	23.2	23.2	23.6	24.0	17.3	17.8	17.7	18.2	18.6
8H 4H	21.4	21.9	21.8	22.3	22.7	16.6	17.1	17.0	17.5	17.9
6H	22.2	22.7	22.7	23.1	23.5	17.4	17.8	17.8	18.2	18.6
8H	22.6	23.0	23.1	23.4	23.9	17.7	18.1	18.1	18.5	18.9
12H	22.9	23.2	23.4	23.7	24.1	17.9	18.2	18.4	18.7	19.1
12H 4H	21.4	21.9	21.8	22.2	22.6	16.6	17.1	17.0	17.5	17.9
6H	22.2	22.6	22.7	23.0	23.5	17.5	17.9	17.9	18.3	18.7
8H	22.6	22.9	23.1	23.4	23.9	17.8	18.2	18.3	18.6	19.1
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 1.1 / - 1.0					+ 0.4 / - 0.4				
1.5H	+ 2.0 / - 1.5					+ 0.9 / - 0.3				
2.0H	+ 2.5 / - 1.5					+ 0.2 / - 0.5				

CIE Pub.117, 1878 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 2.2)
Area: 0.002826 m2

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UTILIZATION FACTORS TABLE

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SPEC.: 3000K	DIM.:	SERIAL No.: 2306270852
MFR.: RISE	SUR.: 0.002826m2	Shielding Angle:

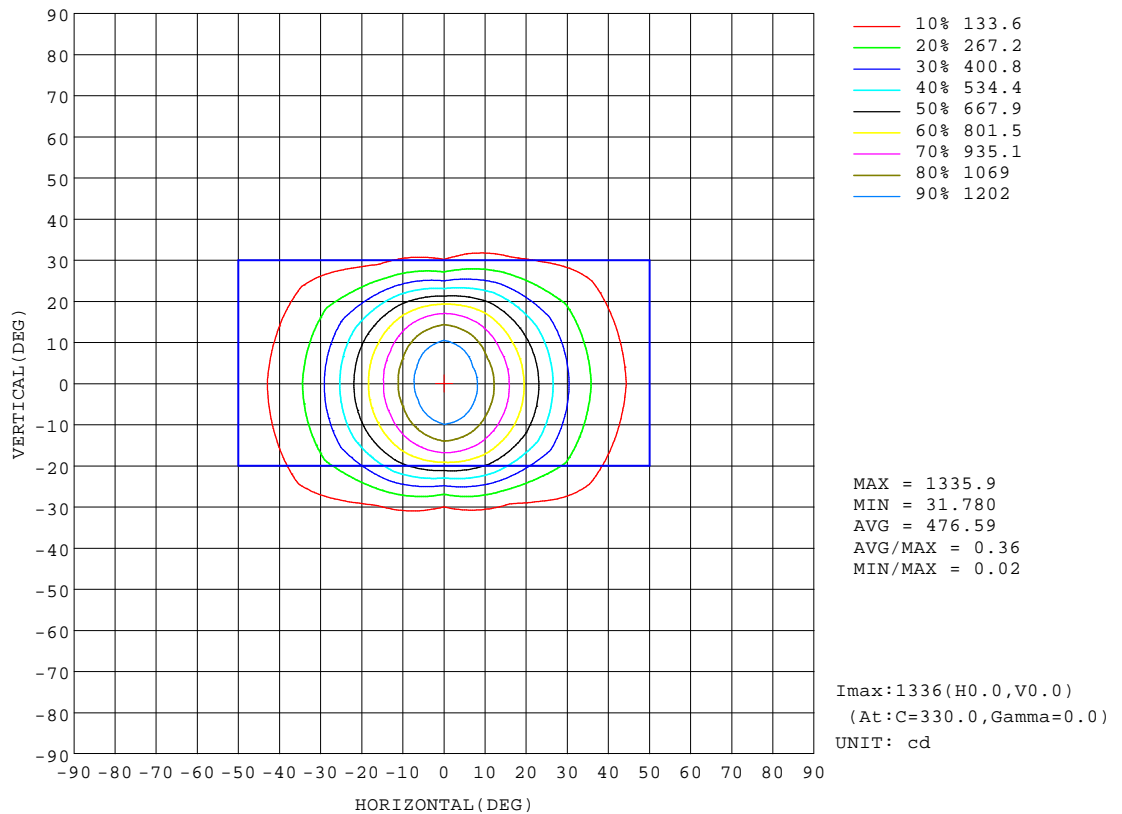
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	38	34	33	37	34	33	37	34	32	31
0.80	41	38	36	41	38	36	40	38	36	34
1.00	43	41	39	43	40	39	42	40	38	36
1.25	45	43	41	45	43	41	44	42	40	38
1.50	47	44	43	46	44	42	45	43	42	40
2.00	48	46	44	48	46	44	46	45	43	41
2.50	49	47	46	48	47	45	47	46	44	42
3.00	50	48	47	49	48	46	48	46	45	42
4.00	51	50	48	50	49	48	48	47	47	43
5.00	52	50	49	51	50	49	49	48	47	44
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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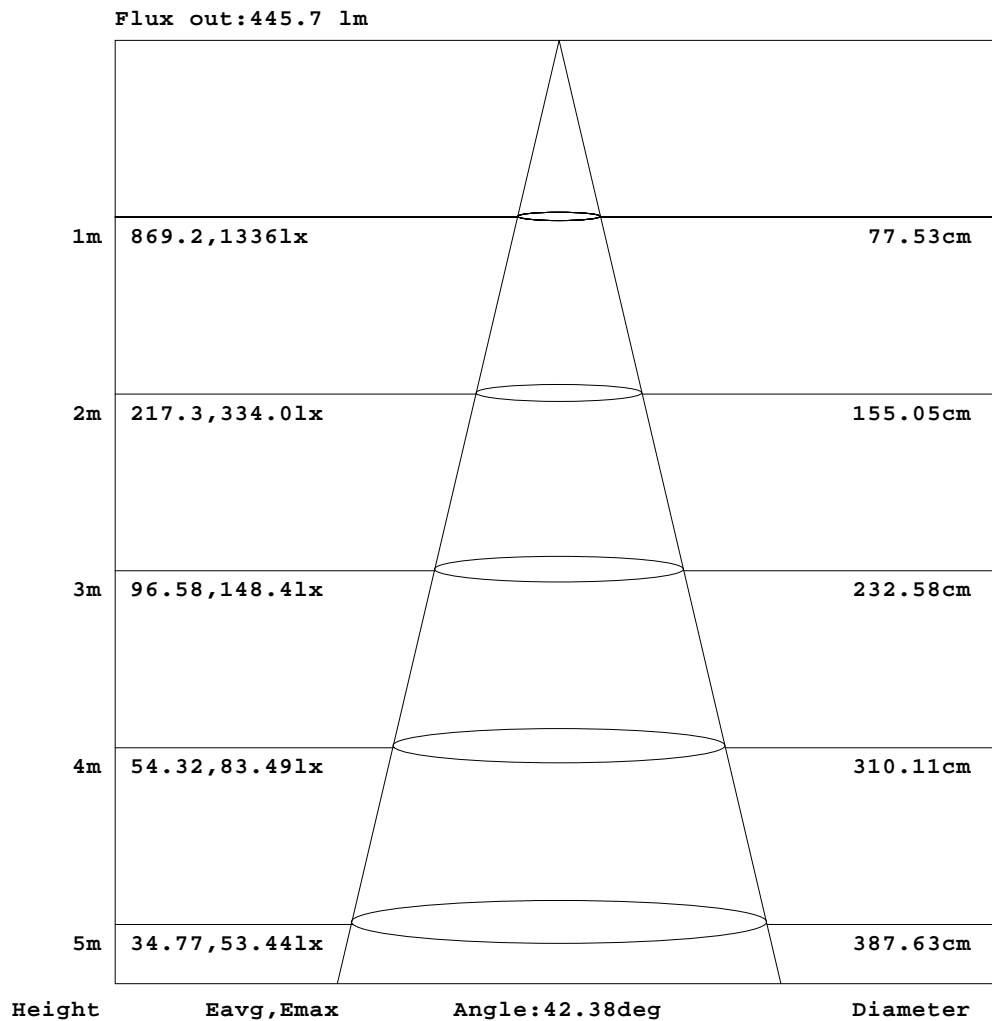


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AAI Figure

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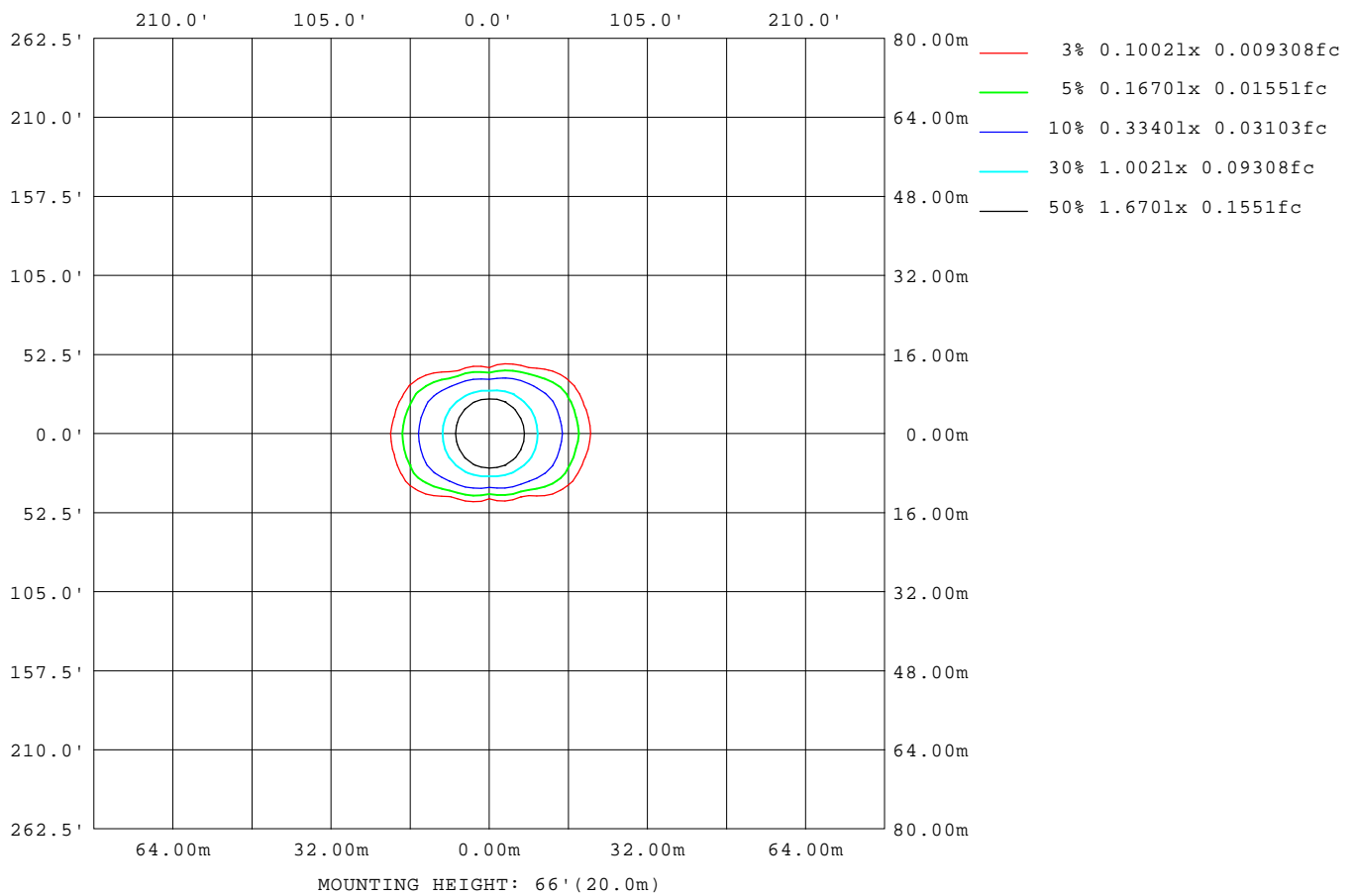
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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LED Avg.L Report

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SPEC.: 3000K	DIM.:	SERIAL No.: 2306270852
MFR.: RISE	SUR.: 0.002826m2	Shielding Angle:

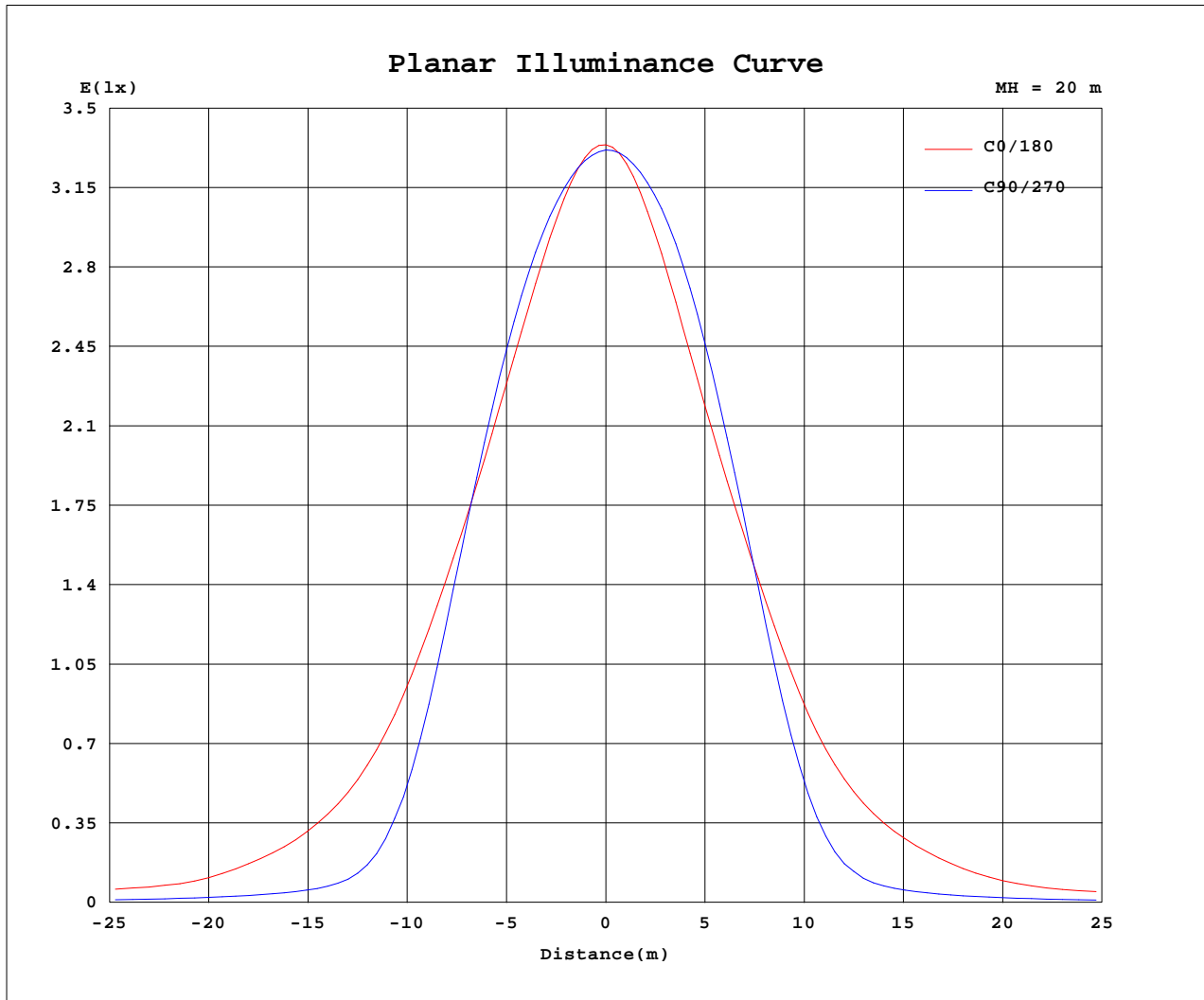
AvgL	cd/m2
L_0~180(65)av	23423
L_0~180(75)av	28667
L_0~180(85)av	22564
L_90~270(65)av	11745
L_90~270(75)av	12361
L_90~270(85)av	8122
L_45(65)av	10994
L_45(75)av	10041
L_45(85)av	8576

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2023-06-27

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-30H1000-A-83 Ra:97
LENS: HLTJ00281 HL-52 55R+SG-004
DRIVER: RMS-20-500AS 500mA
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: 2023-06-27

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-30H1000-A-83 Ra: 97
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 DRIVER: RMS-20-500AS 500mA
 30minutes warm-up

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.09V I:0.0983A P:20.559W PF:0.9470 Freq:49.99Hz Lamp Flux:1877.8x1 lm		
NAME: 2319.201Z-AD3-500	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2306270852
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	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330	1330						
5	1278	1285	1294	1296	1286	1268	1260	1268	1292	1305	1298	1282						
10	1137	1152	1186	1203	1167	1122	1103	1122	1179	1219	1192	1148						
15	963	979	1014	1028	986	939	919	937	998	1040	1015	972						
20	779	790	791	749	766	749	736	744	765	755	793	780						
25	591	594	516	390	505	553	545	543	484	398	538	586						
30	412	408	243	133	251	377	372	363	227	138	286	403						
35	282	264	88.0	52.8	96.9	248	254	233	81.1	54.1	121	266						
40	194	165	39.6	34.9	44.0	161	175	146	39.6	34.3	54.2	174						
45	124	98.9	29.2	26.3	31.4	99.9	109	84.4	29.0	24.9	37.3	106						
50	96.6	50.3	24.0	21.2	24.7	53.3	78.9	42.9	23.2	19.8	27.9	58.5						
55	58.4	30.4	19.0	18.9	18.3	35.4	54.3	28.1	18.2	17.8	19.7	42.3						
60	37.7	24.7	14.3	16.8	13.5	26.1	35.7	20.9	13.9	15.6	13.9	25.9						
65	27.6	17.1	11.1	14.4	10.4	16.4	28.4	15.0	10.7	13.6	10.6	20.8						
70	27.9	11.9	8.61	12.5	9.17	13.1	24.7	10.1	8.19	11.7	9.25	13.5						
75	21.1	8.72	7.41	9.43	7.15	10.1	20.9	7.55	6.46	8.66	7.44	10.8						
80	15.6	6.01	5.03	5.65	4.70	6.13	13.6	4.68	4.14	5.01	4.71	6.82						
85	6.39	2.72	2.31	2.18	2.00	2.60	4.72	1.91	1.68	1.82	2.03	3.14						
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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