

Luminaire Photograph



Light Output Ratio:	62.3%	
Luminaire Power:	10.3 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.65	fine grid method.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: zoe
Test Date: 2023-11-16

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: BXR-V-DR-1830G-0600-B-23 Ra: 90
LENS: PM-1103B 36R+DIFFUSER
DRIVER: 9290 028 088 250mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

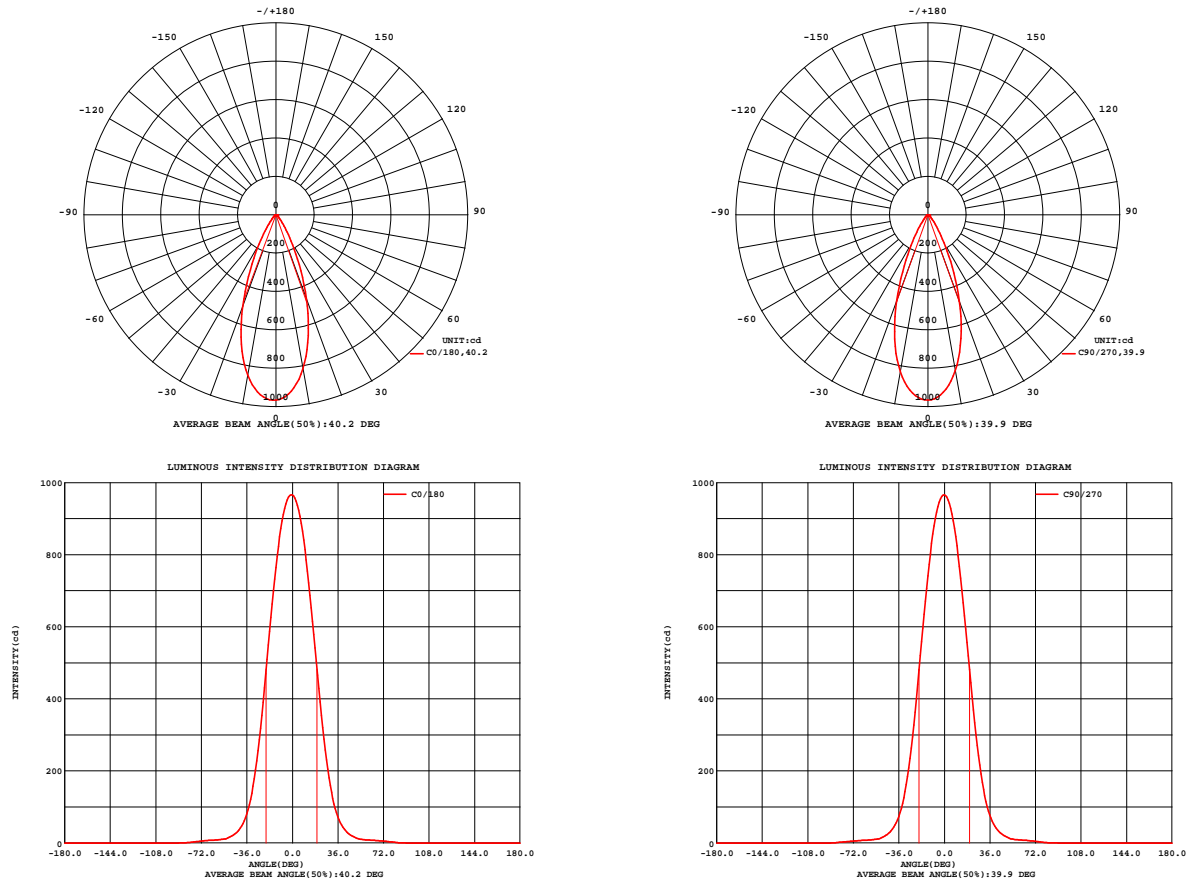


Fig. C0/C180

Fig. C90/C270

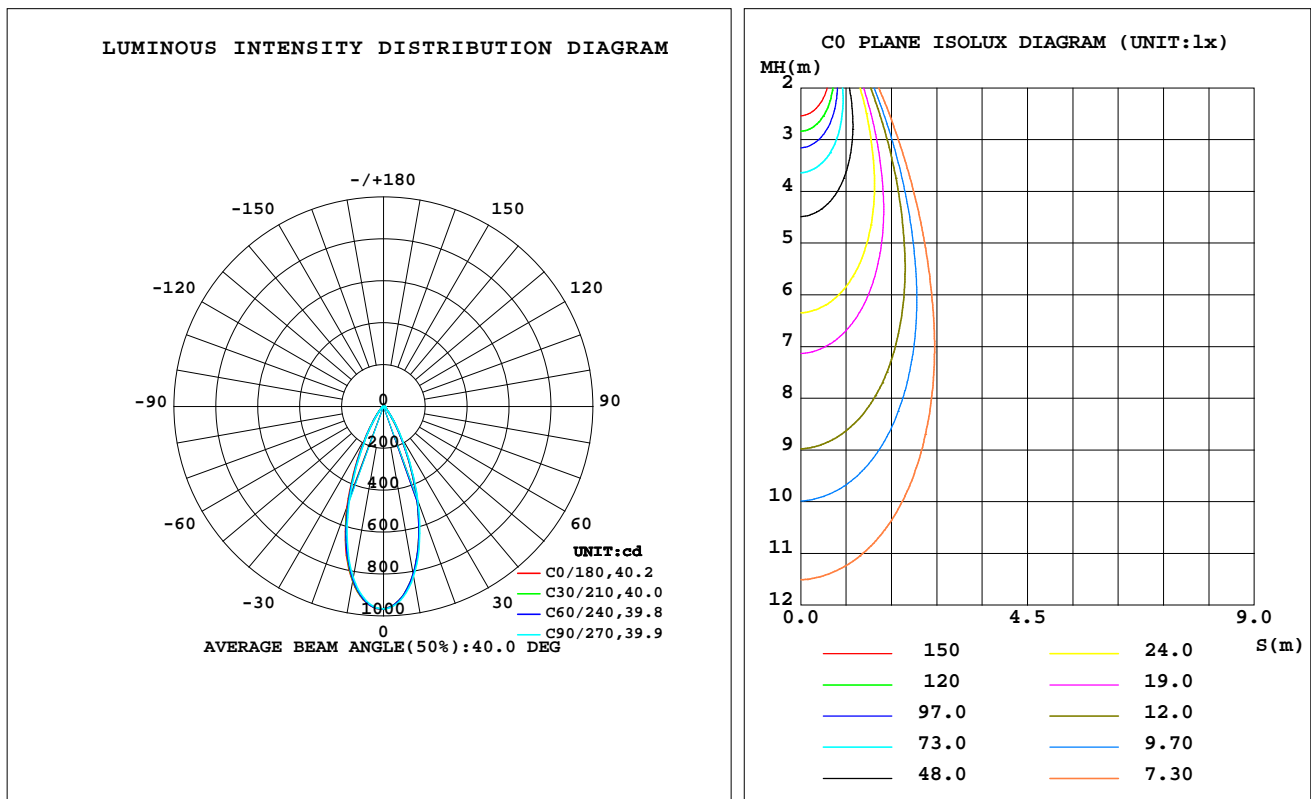
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LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.05V I:0.0488A P:10.303W PF:0.9560 Freq:49.99Hz Lamp Flux:814.298x1 lm		
NAME: 2218.511-ACOT-97-DW	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2311161340
MFR.: RISE	SUR.: 0.001589625m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 49.21 lm/W			
MODEL	Bridgelux	I _{max} (cd)	966.2	S/MH(C0/180)	0.66
NOMINAL POWER(W)	10	LOR(%)	62.3	S/MH(C90/270)	0.64
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	507.04	η UP,DN(C0-180)	0.0,31.0
NOMINAL FLUX(lm)	814.298	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,31.2
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	220	η down(%)	62.3	CIBSE SHR MAX	0.65



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ZONAL FLUX DIAGRAM

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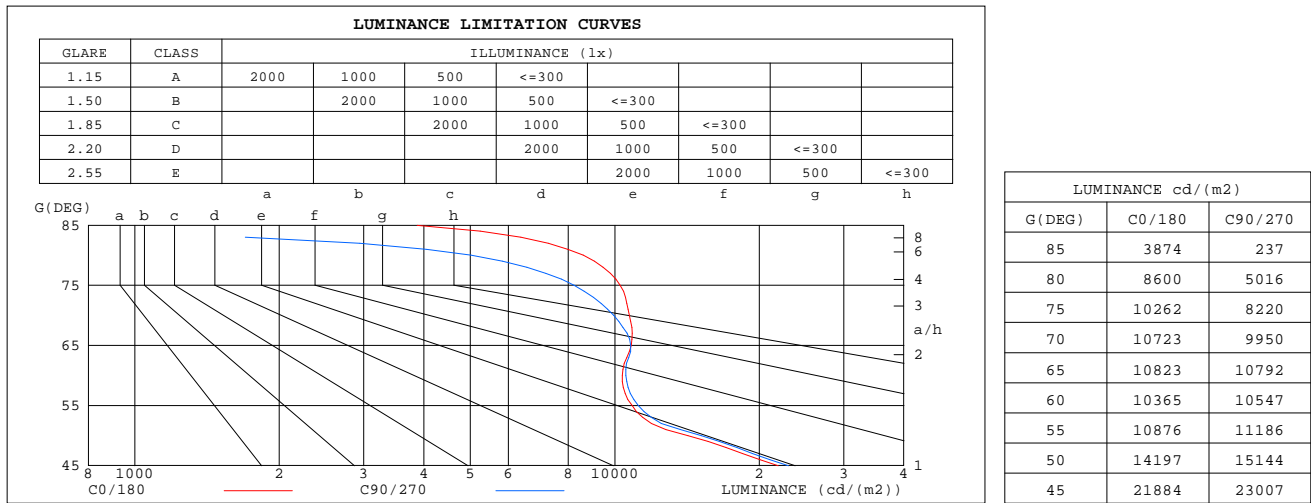
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	814.2	814.4	824.6	841.2	849.4	843.0	831.6	820.9	0- 10	85.66	85.66	16.9,10.5
20	466.1	467.7	481.8	501.2	509.7	496.7	480.2	470.2	10- 20	183.7	269.3	53.1,33.1
30	159.4	161.2	168.5	177.1	178.5	169.9	162.0	159.1	20- 30	138.6	407.9	80.4,50.1
40	44.25	44.87	46.83	48.80	47.65	45.13	43.79	42.90	30- 40	57.25	465.1	91.7,57.1
50	14.48	15.00	15.48	16.13	15.59	14.59	14.00	13.98	40- 50	20.47	485.6	95.8,59.6
60	8.225	8.310	8.387	8.493	8.407	8.217	8.132	8.152	50- 60	9.336	495.0	97.6,60.8
70	5.821	5.638	5.412	5.605	5.909	5.973	5.882	5.845	60- 70	7.102	502.1	99,61.7
80	2.370	1.754	1.385	1.576	2.068	2.582	2.849	2.742	70- 80	4.196	506.3	99.8,62.2
90	0	0	0	0	0	0	0	0	80- 90	0.7891	507.0	100,62.3
100	0	0	0	0	0	0	0	0	90-100	0	507.0	100,62.3
110	0	0	0	0	0	0	0	0	100-110	0	507.0	100,62.3
120	0	0	0	0	0	0	0	0	110-120	0	507.0	100,62.3
130	0	0	0	0	0	0	0	0	120-130	0	507.0	100,62.3
140	0	0	0	0	0	0	0	0	130-140	0	507.0	100,62.3
150	0	0	0	0	0	0	0	0	140-150	0	507.0	100,62.3
160	0	0	0	0	0	0	0	0	150-160	0	507.0	100,62.3
170	0	0	0	0	0	0	0	0	160-170	0	507.0	100,62.3
180	0	0	0	0	0	0	0	0	170-180	0	507.0	100,62.3
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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LUMINANCE LIMITATION CURVES

Test:U:220.05V I:0.0488A P:10.303W PF:0.9560 Freq:49.99Hz Lamp Flux:814.298x1 lm		
NAME: 2218.511-ACOT-97-DW	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2311161340
MFR.: RISE	SUR.: 0.001589625m2	Shielding Angle:



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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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NAME: 2218.511-ACOT-97-DW

TYPE:

WEIGHT:

SPEC.: 3000K

DIM.:

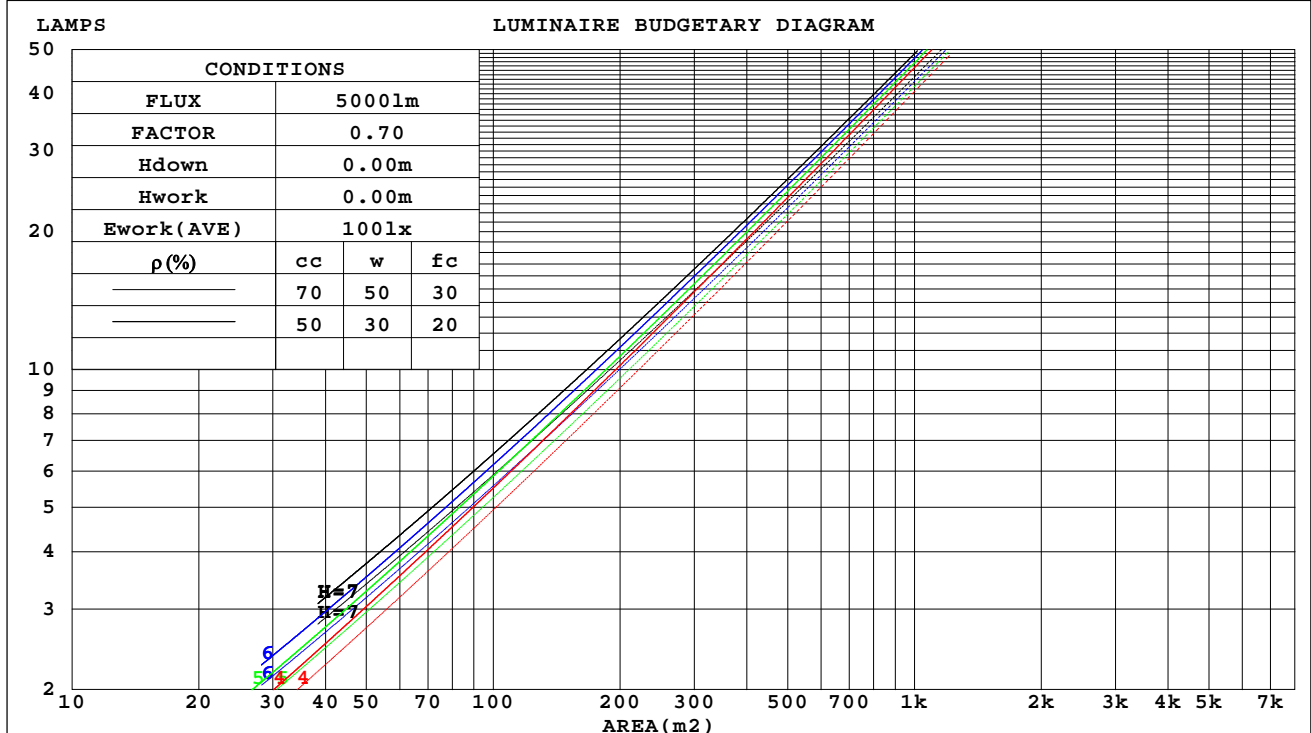
SERIAL No.: 2311161340

MFR.: RISE

SUR.: 0.001589625m2

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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SPEC.: 3000K	DIM.:	SERIAL No.: 2311161340
MFR.: RISE	SUR.: 0.001589625m2	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	.108	.061	.019	.104	.059	.019	.096	.055	.018	.089	.051	.016	.082	.047	.015	
2.0	.102	.056	.017	.098	.054	.017	.092	.051	.016	.086	.048	.015	.080	.045	.014	
3.0	.096	.051	.015	.093	.050	.015	.087	.047	.014	.082	.045	.014	.077	.043	.013	
4.0	.090	.047	.014	.088	.046	.014	.083	.044	.013	.079	.042	.013	.075	.041	.012	
5.0	.086	.044	.013	.083	.043	.012	.079	.041	.012	.075	.040	.012	.072	.038	.012	
6.0	.081	.041	.012	.079	.040	.012	.076	.039	.011	.072	.038	.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	.072	.036	.010	.069	.035	.010	.067	.034	.010	.064	.033	.010	
9.0	.070	.034	.010	.069	.034	.009	.067	.033	.009	.064	.032	.009	.062	.031	.009	
10.0	.067	.032	.009	.066	.032	.009	.064	.031	.009	.062	.031	.009	.060	.030	.009	

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	.119	.119	.119	.101	.101	.101	.069	.069	.069	.040	.040	.040	.013	.013	.013		
1.0	.106	.098	.090	.091	.084	.078	.062	.058	.054	.036	.033	.031	.011	.011	.010		
2.0	.097	.083	.071	.083	.071	.061	.057	.049	.043	.033	.029	.025	.010	.009	.008		
3.0	.089	.071	.056	.076	.061	.049	.052	.042	.034	.030	.025	.020	.010	.008	.007		
4.0	.082	.061	.046	.070	.053	.040	.048	.037	.028	.028	.022	.017	.009	.007	.005		
5.0	.076	.054	.038	.065	.047	.033	.045	.033	.023	.026	.019	.014	.008	.006	.005		
6.0	.071	.048	.032	.061	.042	.028	.042	.029	.020	.024	.017	.012	.008	.006	.004		
7.0	.067	.043	.027	.057	.038	.024	.040	.026	.017	.023	.016	.010	.007	.005	.003		
8.0	.063	.039	.023	.054	.034	.020	.038	.024	.014	.022	.014	.009	.007	.005	.003		
9.0	.060	.036	.020	.051	.031	.018	.036	.022	.012	.021	.013	.007	.007	.004	.002		
10.0	.057	.033	.018	.049	.029	.015	.034	.020	.011	.020	.012	.007	.006	.004	.002		

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30minutes warm-up

UGR(Unified Glare Rating) Table

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SPEC.: 3000K					DIM.:			SERIAL No.: 2311161340		
MFR.: RISE					SUR.: 0.001589625m2			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	18.2	19.0	18.4	19.2	19.4	18.3	19.2	18.5	19.4	19.5
3H	18.8	19.6	19.0	19.8	20.0	18.8	19.7	19.1	19.9	20.1
4H	19.1	19.9	19.4	20.1	20.3	19.1	19.8	19.3	20.0	20.3
6H	19.3	20.1	19.6	20.3	20.5	19.1	19.8	19.4	20.1	20.3
8H	19.4	20.1	19.7	20.3	20.6	19.1	19.8	19.4	20.0	20.3
12H	19.4	20.0	19.7	20.3	20.6	19.1	19.7	19.4	20.0	20.3
4H 2H	18.3	19.1	18.6	19.3	19.5	18.4	19.2	18.7	19.4	19.6
3H	19.1	19.8	19.4	20.1	20.3	19.1	19.8	19.5	20.1	20.3
4H	19.6	20.2	19.9	20.5	20.8	19.4	20.1	19.8	20.3	20.7
6H	19.9	20.4	20.2	20.7	21.1	19.6	20.1	19.9	20.4	20.8
8H	19.9	20.4	20.3	20.8	21.1	19.5	20.0	19.9	20.4	20.8
12H	19.9	20.4	20.3	20.8	21.1	19.5	20.0	19.9	20.3	20.7
8H 4H	19.6	20.1	20.0	20.5	20.8	19.5	20.0	19.9	20.4	20.7
6H	20.0	20.4	20.4	20.8	21.2	19.7	20.1	20.1	20.5	20.9
8H	20.1	20.5	20.5	20.9	21.3	19.7	20.1	20.1	20.5	20.9
12H	20.1	20.4	20.6	20.9	21.3	19.6	19.9	20.1	20.4	20.9
12H 4H	19.6	20.1	20.0	20.4	20.8	19.5	20.0	19.9	20.3	20.7
6H	20.0	20.3	20.4	20.8	21.2	19.7	20.0	20.1	20.5	20.9
8H	20.1	20.4	20.5	20.8	21.3	19.7	20.0	20.1	20.4	20.9
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 1.1 / - 1.2					+ 1.4 / - 1.5				
1.5H	+ 2.3 / - 1.2					+ 2.7 / - 1.5				
2.0H	+ 1.5 / - 0.6					+ 1.9 / - 0.7				

CIE Pub.117, 814.3 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.7)
Area: 0.00158963 m2

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UTILIZATION FACTORS TABLE

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MFR.: RISE	SUR.: 0.001589625m2	Shielding Angle:

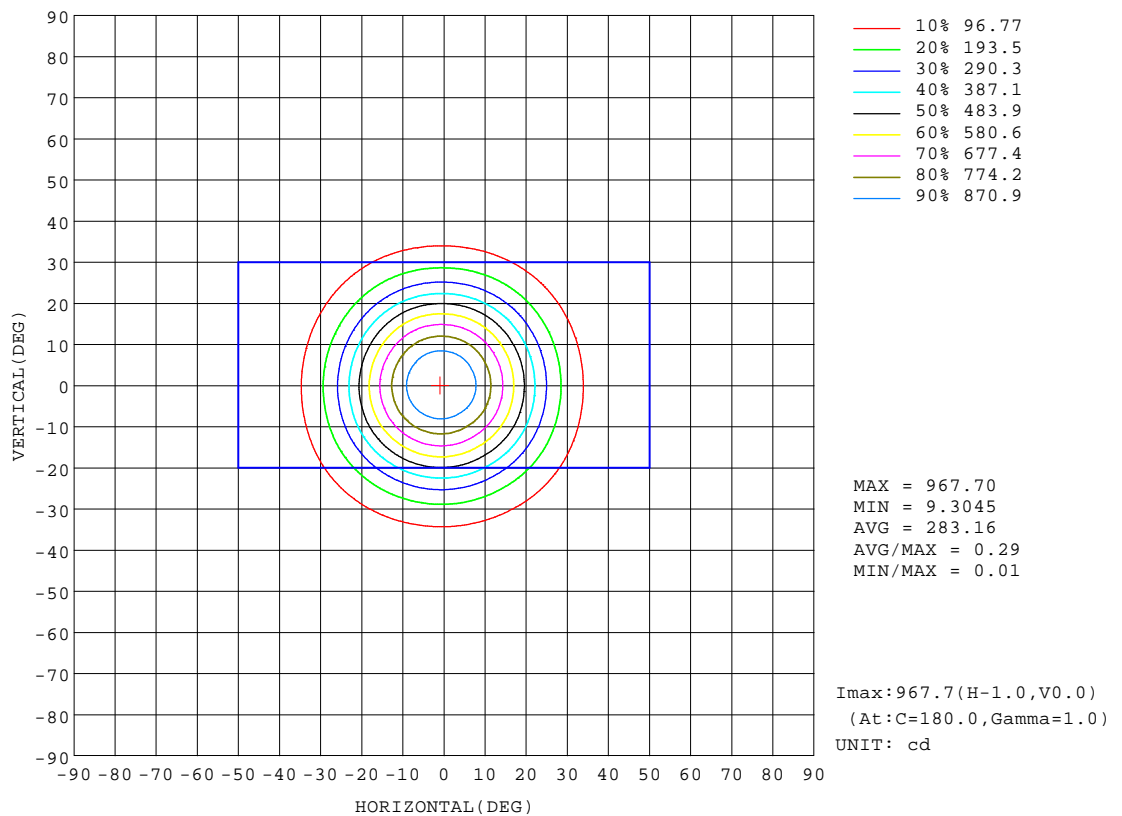
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	54	50	47	54	50	47	53	49	47	45
0.80	58	55	52	58	54	52	57	54	52	50
1.00	61	58	55	61	57	55	60	57	55	52
1.25	64	60	58	63	60	58	62	59	57	55
1.50	65	62	60	65	62	60	63	61	59	56
2.00	67	65	62	66	64	62	65	63	61	58
2.50	68	66	64	67	65	63	65	64	62	58
3.00	69	67	65	68	66	65	66	65	63	59
4.00	71	69	67	69	68	67	67	66	65	60
5.00	71	70	69	70	69	68	68	67	66	61
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.: 0.001589625m2	Shielding Angle:

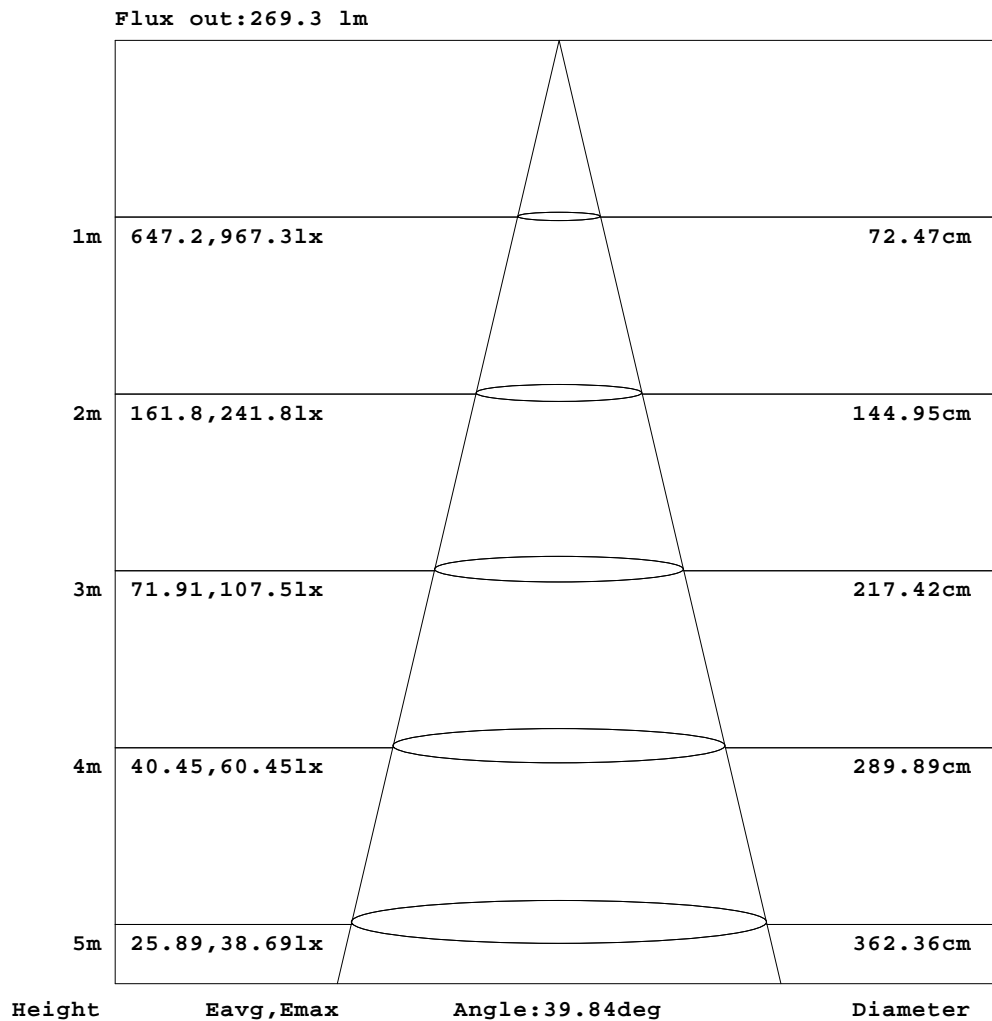


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AAI Figure

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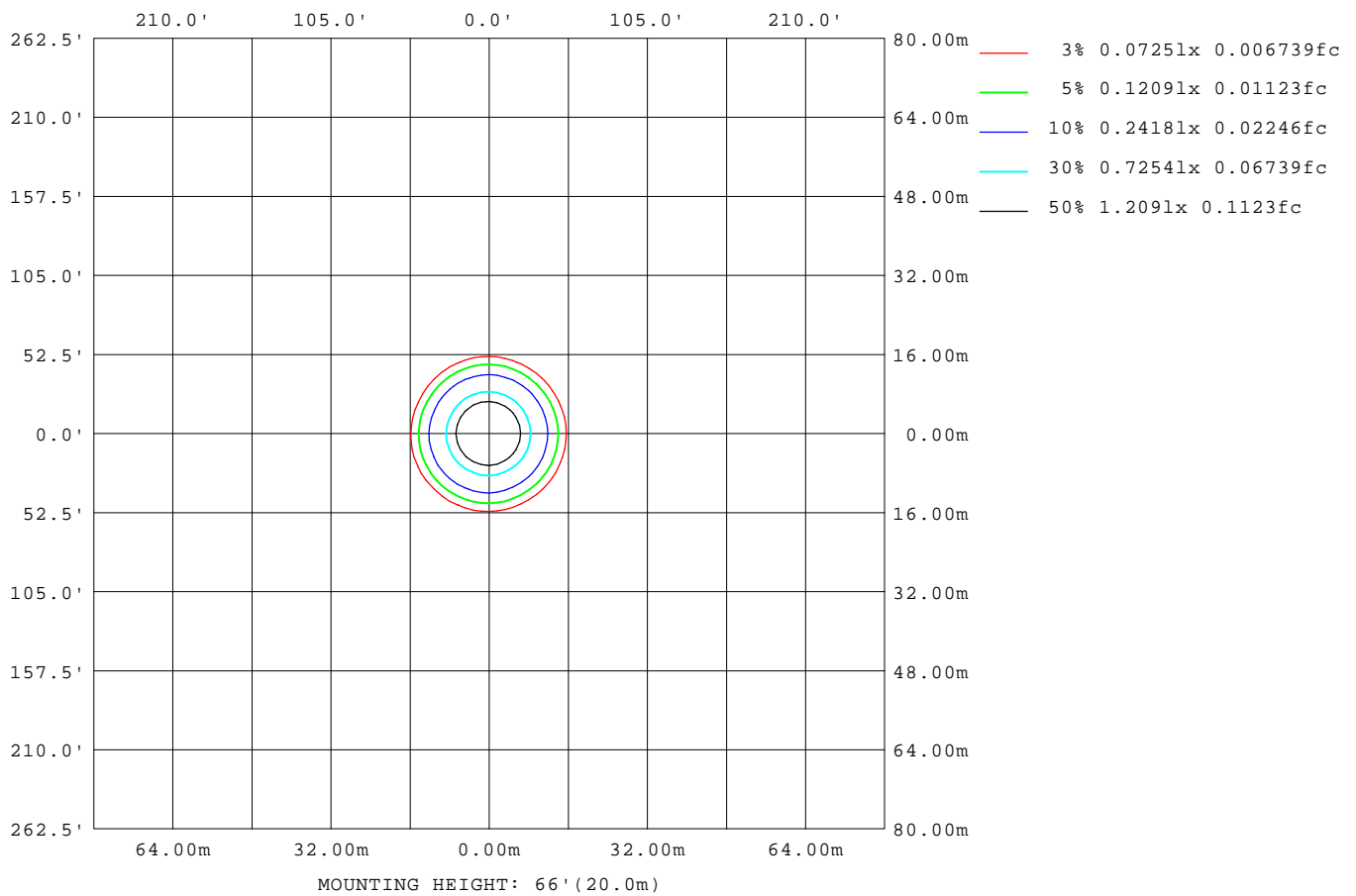
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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Operators:zoe
Test Date:2023-11-16

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:BXRV-DR-1830G-0600-B-23 Ra:90
LENS:PM-1103B 36R+DIFFUSER
DRIVER:9290 028 088 250mA
30minutes warm-up

LED Avg.L Report

Test:U:220.05V I:0.0488A P:10.303W PF:0.9560 Freq:49.99Hz Lamp Flux:814.298x1 lm		
NAME: 2218.511-ACOT-97-DW	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2311161340
MFR.: RISE	SUR.: 0.001589625m2	Shielding Angle:

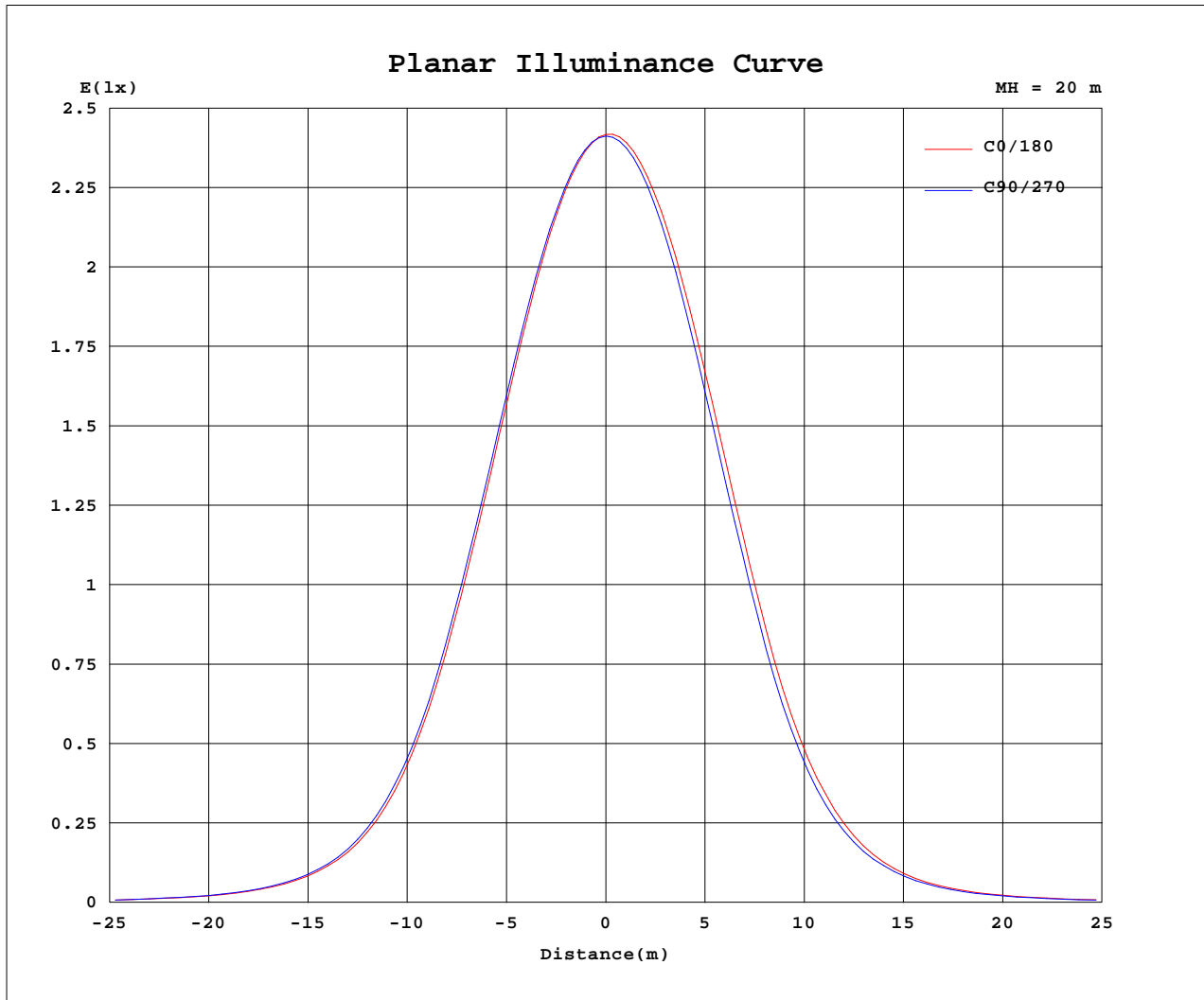
AvgL	cd/m2
L_0~180(65)av	10930
L_0~180(75)av	9991
L_0~180(85)av	3011
L_90~270(65)av	10766
L_90~270(75)av	9423
L_90~270(85)av	4150
L_45(65)av	10851
L_45(75)av	9690
L_45(85)av	3511

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2023-11-16

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:BXRV-DR-1830G-0600-B-23 Ra:90
LENS:PM-1103B 36R+DIFFUSER
DRIVER:9290 028 088 250mA
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: 2023-11-16

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: BXRV-DR-1830G-0600-B-23 Ra: 90
 LENS: PM-1103B 36R+DIFFUSER
 DRIVER: 9290 028 088 250mA
 30minutes warm-up

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.05V I:0.0488A P:10.303W PF:0.9560 Freq:49.99Hz Lamp Flux:814.298x1 lm		
NAME: 2218.511-ACOT-97-DW	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2311161340
MFR.: RISE	SUR.: 0.001589625m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	966	966	966	966	966	966	966	966	966	966	966	966						
5	923	924	924	928	935	939	941	939	938	933	929	924						
10	814	815	814	825	836	847	849	844	842	832	825	817						
15	652	653	653	666	680	695	698	690	685	671	664	655						
20	466	468	467	482	495	508	510	500	494	480	474	466						
25	288	289	289	301	310	319	319	310	305	294	290	286						
30	159	162	161	169	174	180	178	171	169	162	160	158						
35	84.4	84.9	85.4	88.8	91.2	94.5	92.6	88.8	87.3	84.8	82.5	82.8						
40	44.3	44.8	44.9	46.8	48.4	49.2	47.6	45.2	45.1	43.8	42.8	43.0						
45	24.6	25.0	25.1	25.9	26.7	27.0	26.1	24.6	24.5	23.9	23.6	23.8						
50	14.5	14.9	15.1	15.5	16.1	16.2	15.6	14.7	14.5	14.0	13.9	14.0						
55	9.90	10.00	10.0	10.2	10.4	10.5	10.3	10.00	9.89	9.81	9.71	9.78						
60	8.23	8.29	8.33	8.39	8.44	8.54	8.41	8.25	8.18	8.13	8.14	8.17						
65	7.26	7.28	7.25	7.25	7.33	7.45	7.43	7.30	7.23	7.21	7.24	7.23						
70	5.82	5.77	5.51	5.41	5.49	5.72	5.91	6.00	5.94	5.88	5.86	5.83						
75	4.22	3.90	3.53	3.38	3.45	3.71	4.01	4.27	4.43	4.37	4.33	4.28						
80	2.37	1.96	1.55	1.39	1.44	1.71	2.07	2.42	2.75	2.85	2.80	2.68						
85	0.54	0.22	0.06	0.03	0.03	0.08	0.30	0.63	0.95	1.12	1.09	0.84						
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
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