

Luminaire Photograph



Light Output Ratio:	83.7%	
Luminaire Power:	15.28 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	0.30	fine grid method.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: zoe
Test Date: 2026-3-3

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-30G1000-A-83 Ra: 90
LENS: PM-1109 24R
DRIVER: RMY-20-500BS-350 350mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

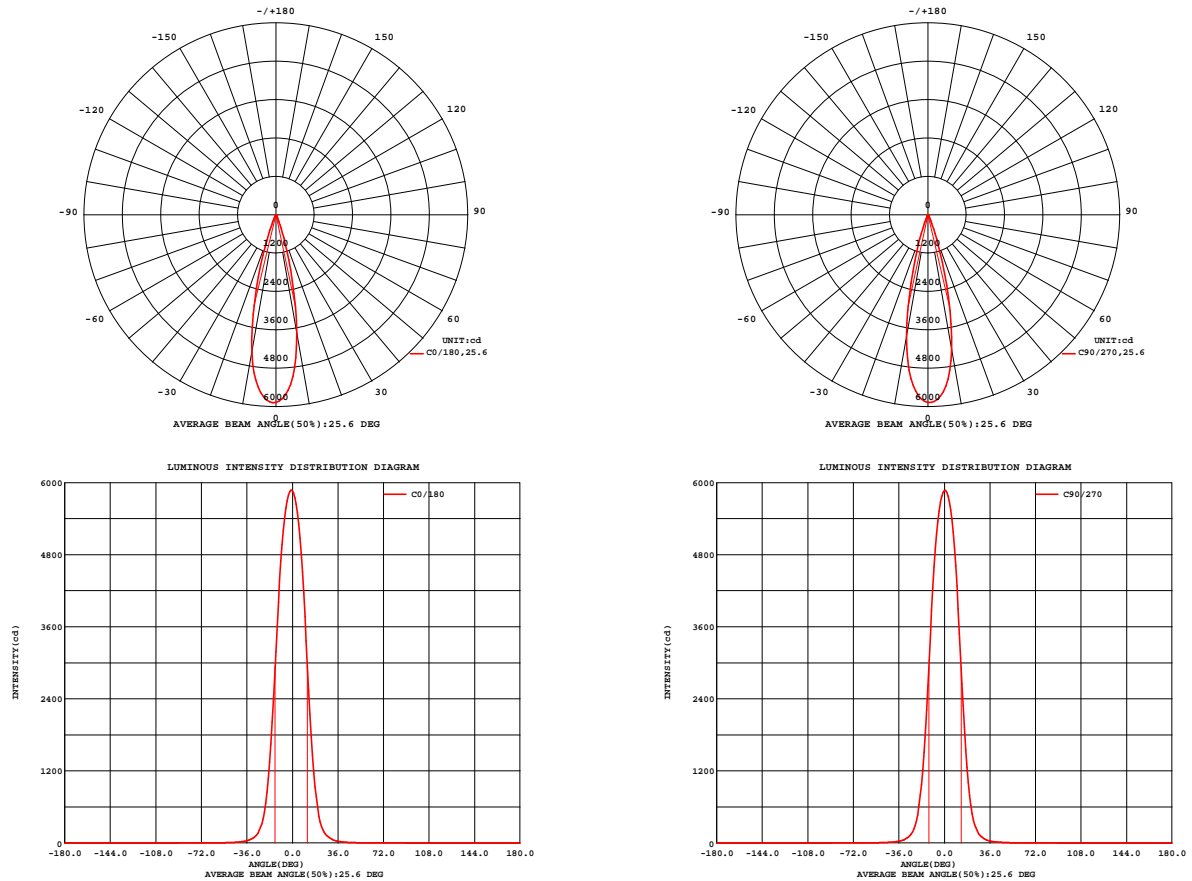


Fig. C0/C180

Fig. C90/C270

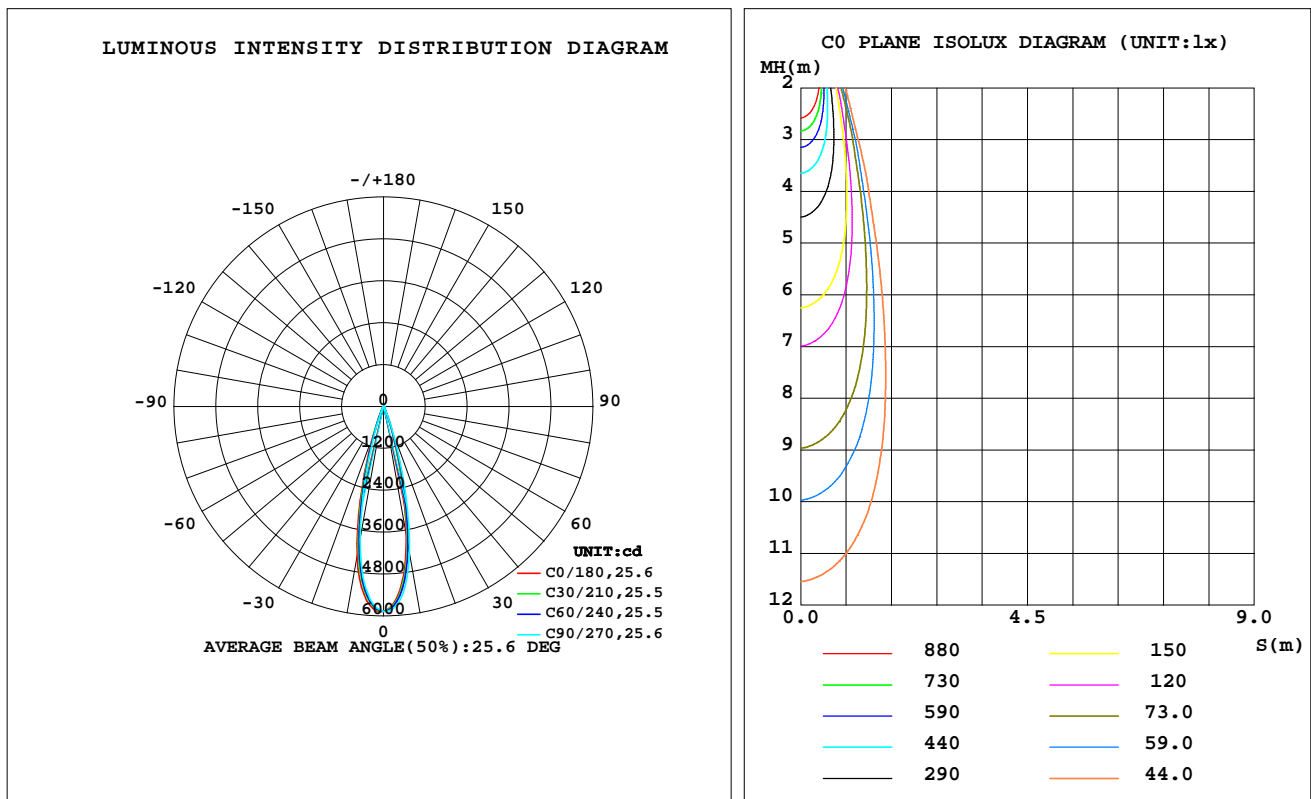
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LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.19V I:0.0811A P:15.278W PF:0.8501 Freq:49.99Hz Lamp Flux:1437.3x1 lm		
NAME: 2529.403	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2603030014
MFR.: RISE	SUR.: 0.002374625m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 78.77 lm/W			
MODEL	Bridgelux	I _{max} (cd)	5885	S/MH(C0/180)	0.43
NOMINAL POWER(W)	15	LOR(%)	83.7	S/MH(C90/270)	0.39
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	1203.4	η UP,DN(C0-180)	0.0,43.1
NOMINAL FLUX(lm)	1437.3	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,40.7
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	220	η down(%)	83.7	CIBSE SHR MAX	0.30



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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	3772	3997	4279	4458	4370	4122	3870	3728	0- 10	476.7	476.7	39.6,33.2
20	609.7	686.5	792.6	892.9	846.4	736.2	636.5	552.7	10- 20	568.2	1045	86.8,72.7
30	78.38	82.60	91.34	99.12	95.88	87.13	76.31	71.57	20- 30	120.1	1165	96.8,81.1
40	16.61	17.91	19.56	21.01	21.70	19.25	16.99	16.31	30- 40	25.53	1191	98.9,82.8
50	5.553	5.982	6.478	6.873	7.007	6.631	6.033	5.628	40- 50	8.428	1199	99.6,83.4
60	1.406	1.445	1.555	1.759	1.881	1.776	1.504	1.340	50- 60	3.111	1202	99.9,83.6
70	0.4286	0.4074	0.4632	0.5354	0.5767	0.5860	0.4672	0.4036	60- 70	0.9296	1203	100,83.7
80	0.1774	0.1669	0.1880	0.1900	0.2184	0.2128	0.1966	0.1628	70- 80	0.3194	1203	100,83.7
90	0	0	0	0	0	0	0	0	80- 90	0.1093	1203	100,83.7
100	0	0	0	0	0	0	0	0	90-100	0	1203	100,83.7
110	0	0	0	0	0	0	0	0	100-110	0	1203	100,83.7
120	0	0	0	0	0	0	0	0	110-120	0	1203	100,83.7
130	0	0	0	0	0	0	0	0	120-130	0	1203	100,83.7
140	0	0	0	0	0	0	0	0	130-140	0	1203	100,83.7
150	0	0	0	0	0	0	0	0	140-150	0	1203	100,83.7
160	0	0	0	0	0	0	0	0	150-160	0	1203	100,83.7
170	0	0	0	0	0	0	0	0	160-170	0	1203	100,83.7
180	0	0	0	0	0	0	0	0	170-180	0	1203	100,83.7
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
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DRIVER:RMY-20-500BS-350 350mA
30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:220.19V I:0.0811A P:15.278W PF:0.8501 Freq:49.99Hz
Lamp Flux:1437.3x1 lm

NAME: 2529.403

TYPE:

WEIGHT:

SPEC.: 3000K

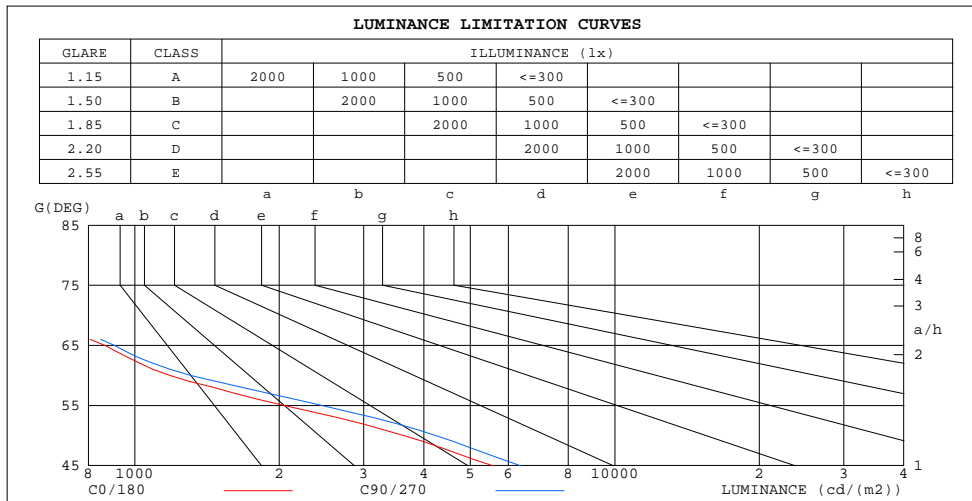
DIM.:

SERIAL No.: 2603030014

MFR.: RISE

SUR.: 0.002374625m2

Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	464	536
80	430	456
75	446	468
70	528	570
65	865	906
60	1185	1309
55	2053	2458
50	3639	4241
45	5573	6362

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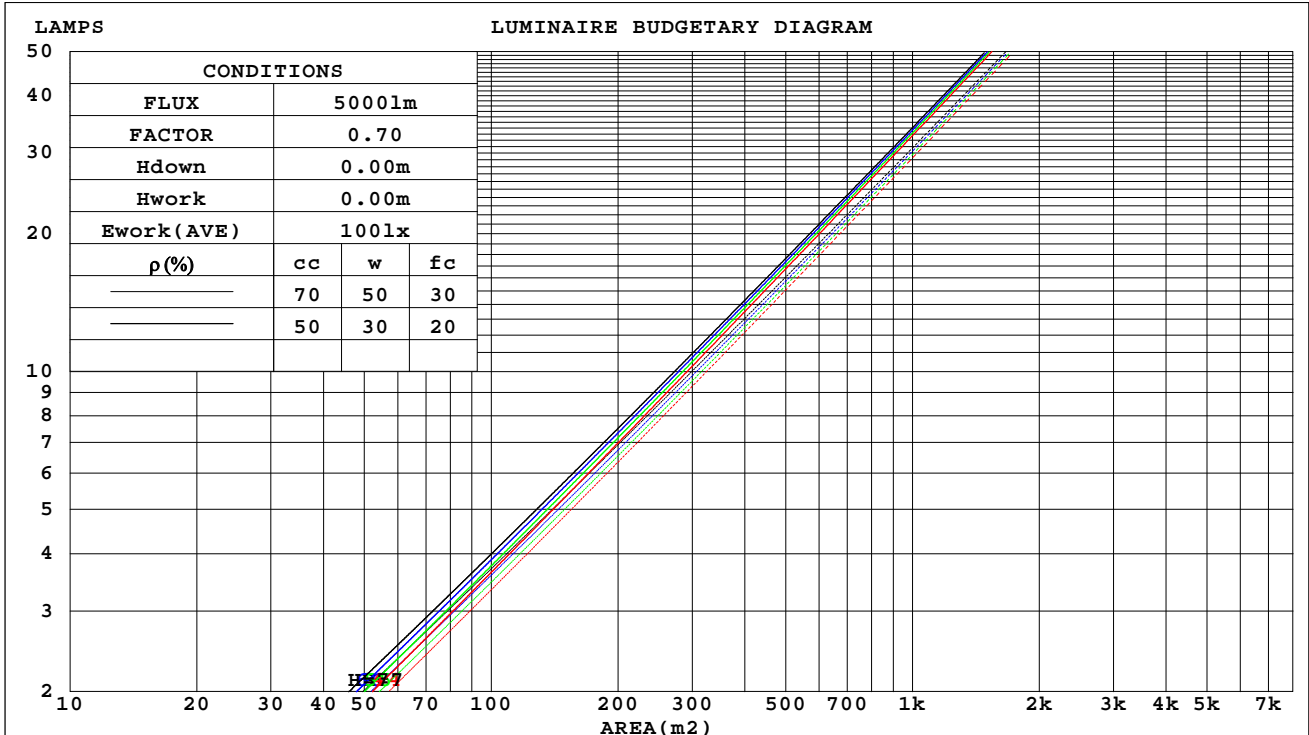
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.: 3000K	DIM.:	SERIAL No.: 2603030014
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															



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WEC AND CCEC

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NAME: 2529.403	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2603030014
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	.110	.062	.020	.104	.059	.019	.094	.054	.017	.084	.049	.016	.075	.044	.014	
2.0	.101	.055	.017	.096	.053	.016	.088	.049	.015	.080	.045	.014	.073	.041	.013	
3.0	.094	.050	.015	.090	.048	.015	.083	.045	.014	.076	.042	.013	.070	.039	.012	
4.0	.088	.045	.013	.084	.044	.013	.078	.042	.012	.073	.039	.012	.068	.037	.011	
5.0	.082	.042	.012	.080	.041	.012	.075	.039	.011	.070	.037	.011	.065	.035	.011	
6.0	.078	.039	.011	.075	.038	.011	.071	.036	.011	.067	.035	.010	.063	.033	.010	
7.0	.074	.036	.010	.072	.036	.010	.068	.034	.010	.064	.033	.010	.061	.032	.009	
8.0	.070	.034	.010	.068	.034	.010	.065	.032	.009	.062	.031	.009	.059	.030	.009	
9.0	.067	.032	.009	.065	.032	.009	.062	.031	.009	.060	.030	.009	.057	.029	.008	
10.0	.064	.031	.009	.063	.030	.008	.060	.029	.008	.058	.029	.008	.055	.028	.008	

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	.159	.159	.159	.136	.136	.136	.093	.093	.093	.053	.053	.053	.017	.017	.017		
1.0	.141	.132	.124	.120	.113	.107	.082	.078	.074	.047	.045	.043	.015	.015	.014		
2.0	.125	.111	.099	.107	.096	.086	.073	.066	.060	.042	.039	.035	.014	.012	.011		
3.0	.112	.095	.081	.096	.082	.070	.066	.057	.049	.038	.033	.029	.012	.011	.010		
4.0	.101	.082	.067	.087	.071	.058	.060	.049	.041	.035	.029	.024	.011	.009	.008		
5.0	.092	.071	.056	.079	.062	.049	.055	.043	.034	.032	.025	.020	.010	.008	.007		
6.0	.085	.063	.047	.073	.055	.041	.050	.038	.029	.029	.022	.017	.009	.007	.006		
7.0	.078	.056	.040	.067	.049	.035	.047	.034	.025	.027	.020	.015	.009	.007	.005		
8.0	.073	.050	.035	.063	.044	.030	.043	.031	.022	.025	.018	.013	.008	.006	.004		
9.0	.068	.046	.030	.059	.040	.027	.041	.028	.019	.024	.016	.011	.008	.005	.004		
10.0	.064	.041	.027	.055	.036	.023	.038	.025	.017	.022	.015	.010	.007	.005	.003		

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30minutes warm-up

UGR(Unified Glare Rating) Table

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NAME: 2529.403					TYPE:			WEIGHT:		
SPEC.: 3000K					DIM.:			SERIAL No.: 2603030014		
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	5.0	5.6	5.2	5.8	5.9	5.6	6.2	5.8	6.4	6.5
	3H	4.9	5.5	5.2	5.7	5.9	5.5	6.1	5.7	6.3
	4H	4.9	5.4	5.1	5.6	5.8	5.4	6.0	5.7	6.2
	6H	4.8	5.3	5.1	5.5	5.8	5.4	5.9	5.7	6.1
	8H	4.8	5.3	5.1	5.5	5.8	5.3	5.8	5.6	6.1
	12H	4.7	5.2	5.0	5.5	5.7	5.3	5.8	5.6	6.0
4H	2H	4.9	5.4	5.1	5.6	5.8	5.4	6.0	5.7	6.4
	3H	4.8	5.2	5.1	5.5	5.8	5.3	5.8	5.6	6.1
	4H	4.7	5.1	5.0	5.4	5.7	5.3	5.7	5.6	6.0
	6H	4.6	5.0	5.0	5.3	5.7	5.2	5.6	5.5	5.9
	8H	4.6	4.9	5.0	5.3	5.6	5.1	5.5	5.5	5.8
	12H	4.5	4.9	4.9	5.2	5.6	5.1	5.4	5.5	5.8
8H	4H	4.6	4.9	4.9	5.3	5.6	5.1	5.5	5.5	5.8
	6H	4.5	4.8	4.9	5.2	5.6	5.0	5.3	5.4	5.7
	8H	4.4	4.7	4.9	5.1	5.6	5.0	5.3	5.4	5.7
	12H	4.4	4.6	4.9	5.1	5.5	4.9	5.2	5.4	5.6
12H	4H	4.5	4.8	4.9	5.2	5.6	5.1	5.4	5.5	5.8
	6H	4.4	4.7	4.9	5.1	5.5	5.0	5.2	5.4	5.7
	8H	4.4	4.6	4.8	5.0	5.5	4.9	5.2	5.4	5.6
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 2.6 / - 5.9					+ 3.0 / - 5.8				
1.5H	+ 3.9 / - 4.4					+ 4.3 / - 4.6				
2.0H	+ 4.2 / - 4.8					+ 4.5 / - 5.2				

CIE Pub.117, 1437 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.3)
Area: 0.00237463 m2

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UTILIZATION FACTORS TABLE

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

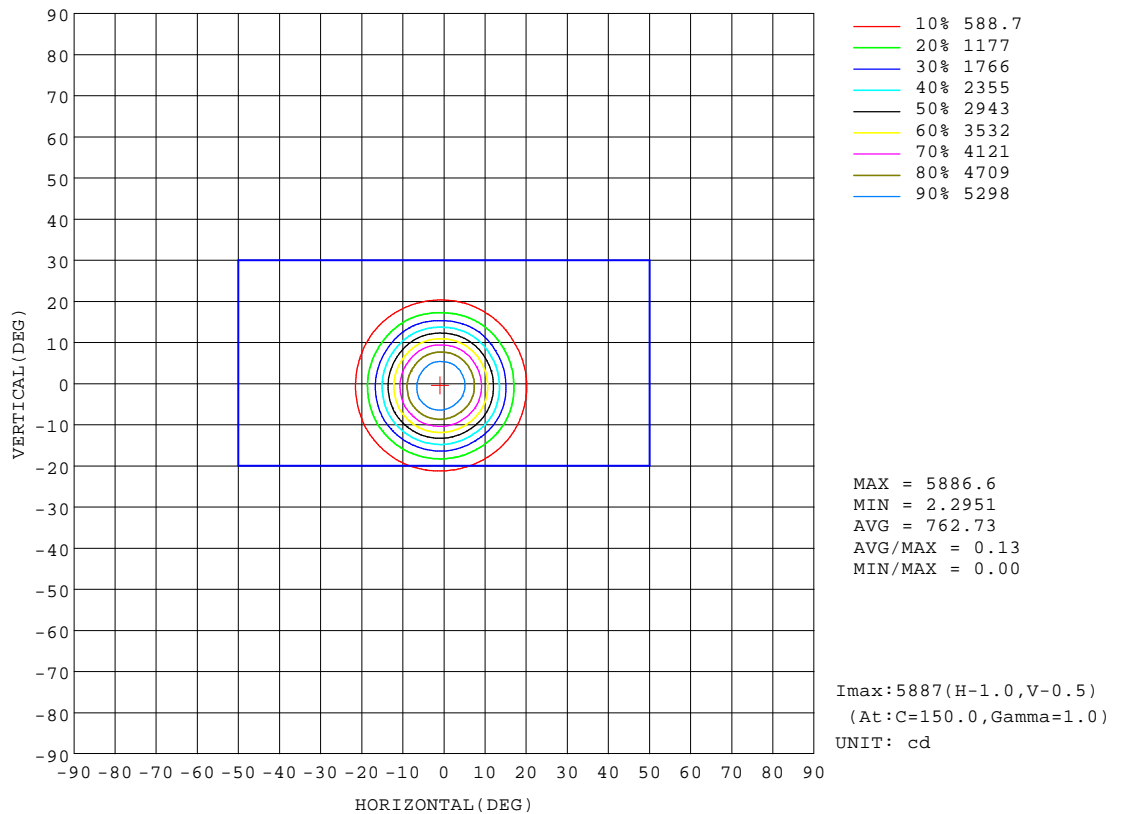
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	76	71	68	76	71	68	75	71	68	66
0.80	82	78	75	81	77	75	80	77	74	72
1.00	85	81	78	84	81	78	83	80	78	75
1.25	88	84	82	87	84	81	86	83	81	77
1.50	90	87	84	89	86	84	87	85	83	79
2.00	92	89	86	91	88	86	89	86	84	80
2.50	93	90	88	92	89	87	89	87	86	81
3.00	94	92	90	93	91	89	90	88	87	82
4.00	96	94	92	94	92	91	91	90	89	83
5.00	97	95	94	95	94	92	92	91	90	84
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:

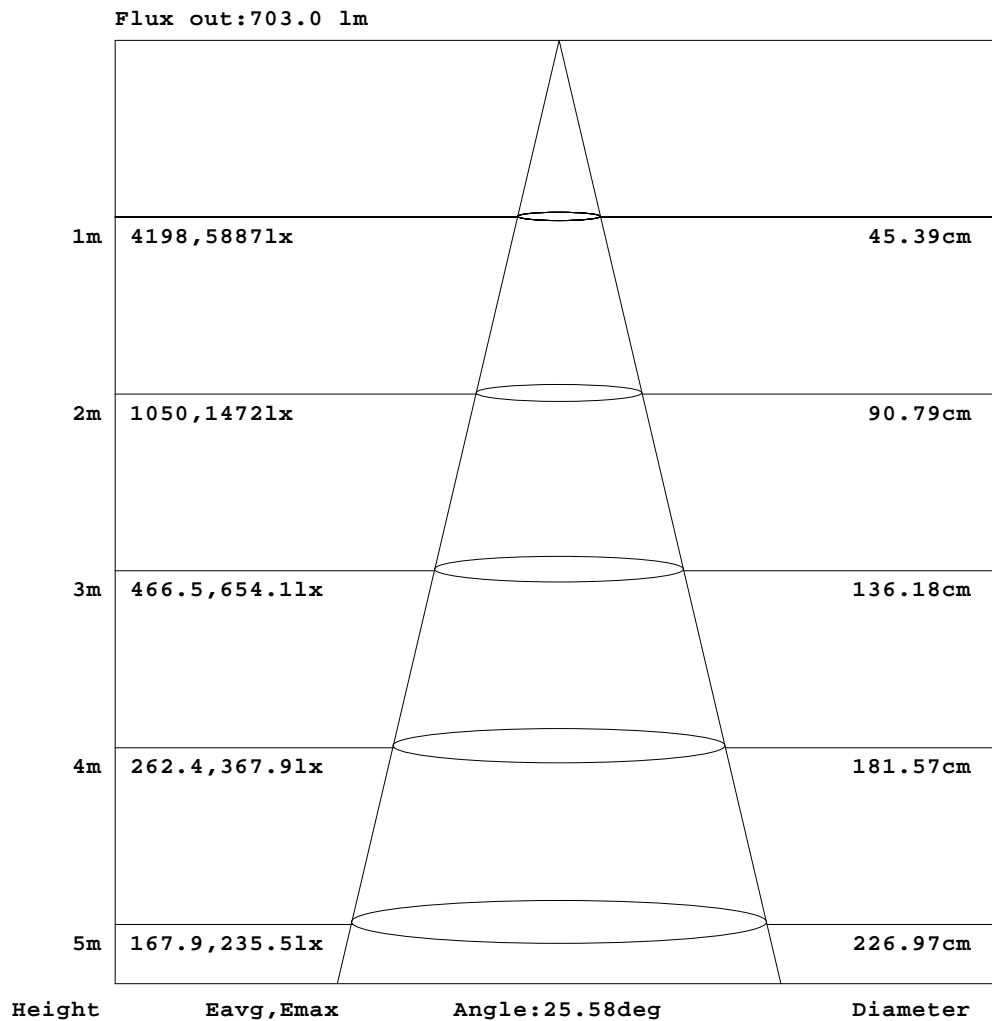


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AAI Figure

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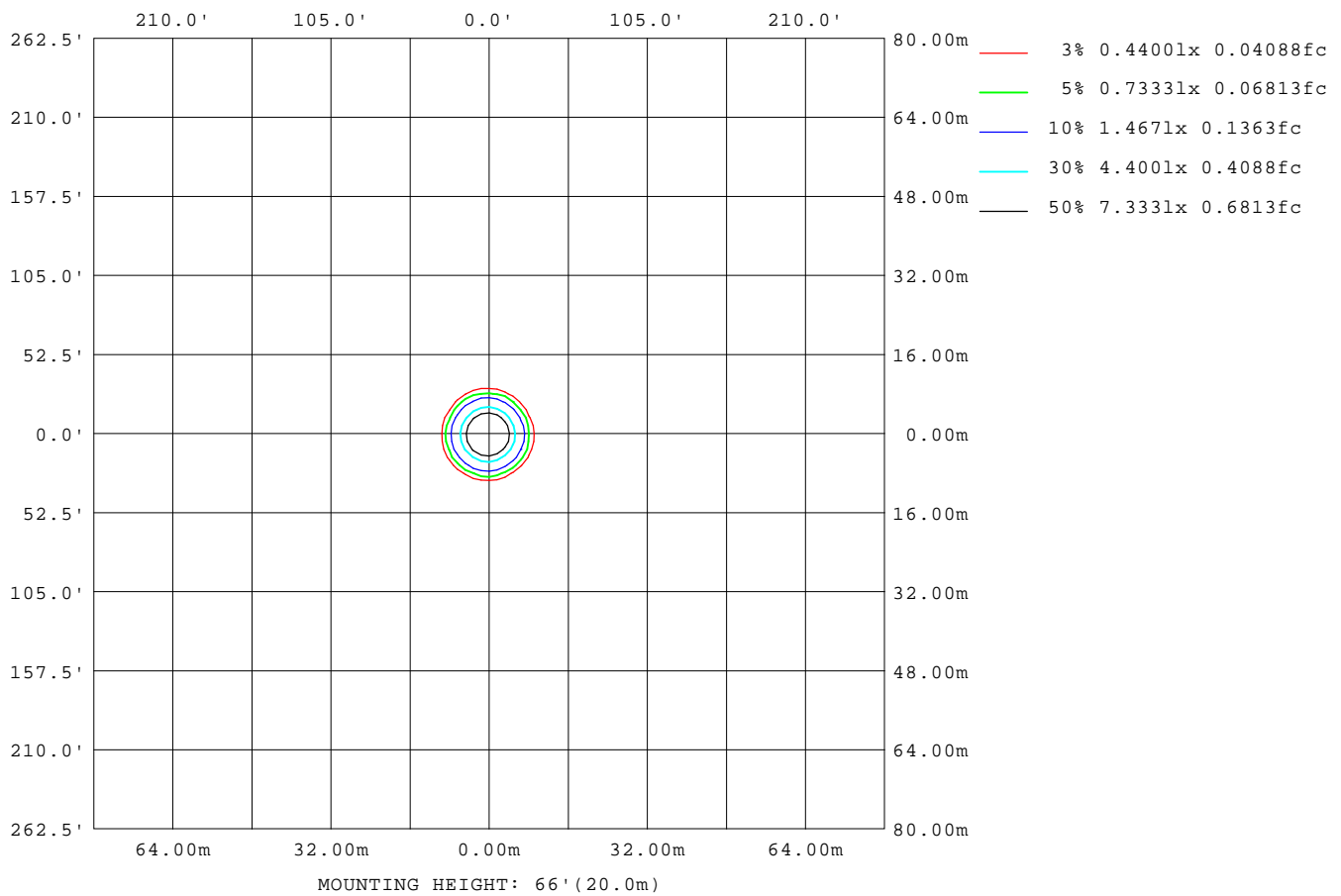
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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Remarks: LAMP:BXRE-30G1000-A-83 Ra:90
LENS:PM-1109 24R
DRIVER:RMY-20-500BS-350 350mA
30minutes warm-up

LED Avg.L Report

Test:U:220.19V I:0.0811A P:15.278W PF:0.8501 Freq:49.99Hz Lamp Flux:1437.3x1 lm		
NAME: 2529.403	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2603030014
MFR.: RISE	SUR.: 0.002374625m2	Shielding Angle:

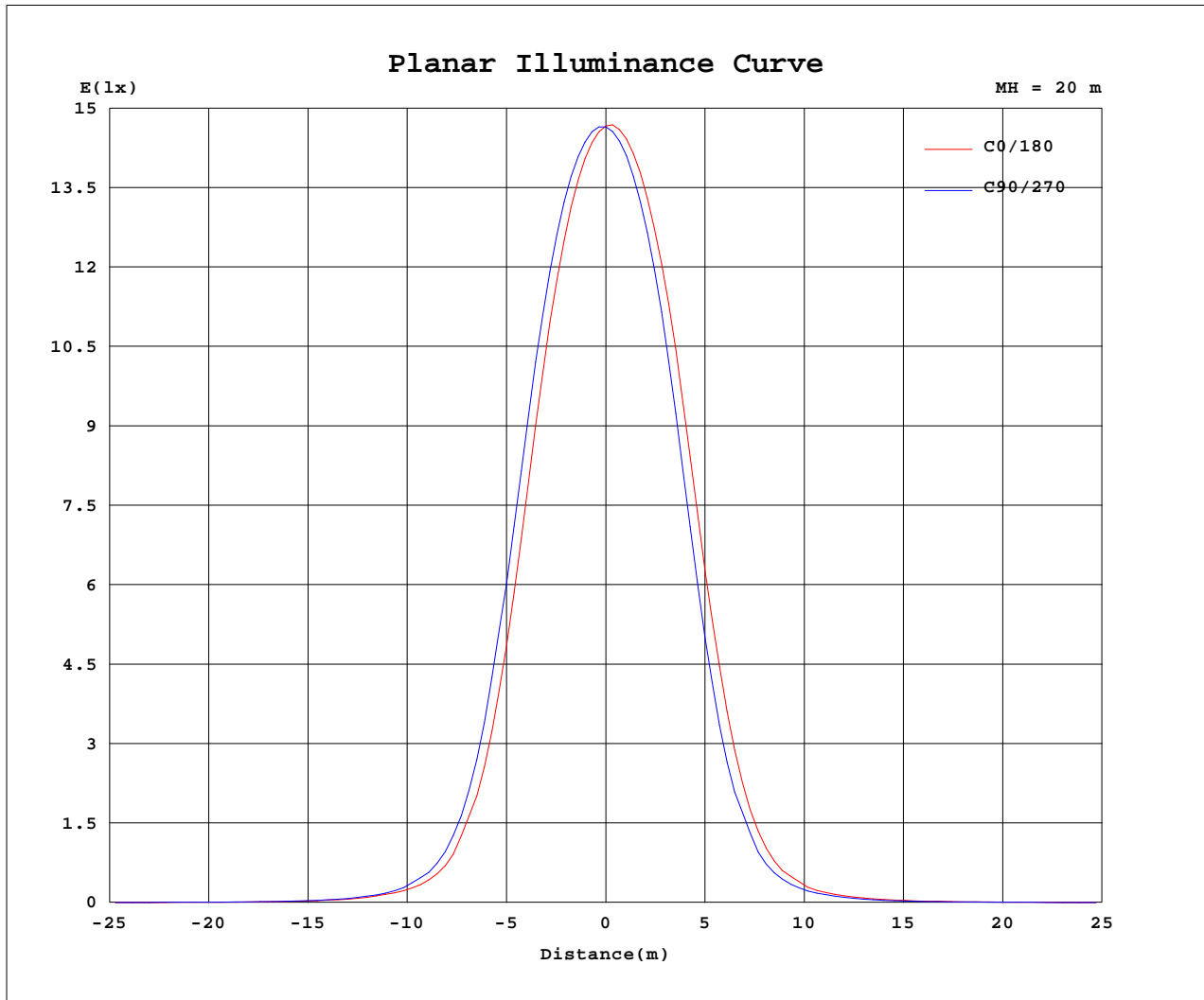
AvgL	cd/m2
L_0~180(65)av	946
L_0~180(75)av	495
L_0~180(85)av	524
L_90~270(65)av	881
L_90~270(75)av	477
L_90~270(85)av	537
L_45(65)av	901
L_45(75)av	470
L_45(85)av	445

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2026-3-3

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-30G1000-A-83 Ra:90
LENS:PM-1109 24R
DRIVER:RMY-20-500BS-350 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: 2026-3-3

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-30G1000-A-83 Ra: 90
 LENS: PM-1109 24R
 DRIVER: RMY-20-500BS-350 350mA
 30minutes warm-up

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.19V I:0.0811A P:15.278W PF:0.8501 Freq:49.99Hz Lamp Flux:1437.3x1 lm		
NAME: 2529.403	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2603030014
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	5865	5865	5865	5865	5865	5865	5865	5865	5865	5865	5865	5865						
5	5312	5378	5437	5552	5622	5645	5575	5485	5442	5357	5321	5285						
10	3772	3933	4062	4279	4435	4482	4370	4184	4059	3870	3764	3693						
15	1782	1977	2056	2289	2421	2477	2369	2166	2073	1845	1808	1690						
20	610	653	720	793	887	899	846	780	692	637	575	531						
25	184	215	214	255	261	283	266	227	229	186	179	168						
30	78.4	80.2	84.9	91.3	97.7	101	95.9	91.2	83.1	76.3	71.4	71.7						
35	33.7	34.9	35.7	39.0	41.4	44.1	42.9	39.3	36.3	32.9	31.8	31.5						
40	16.6	17.7	18.1	19.6	20.1	21.9	21.7	19.8	18.7	17.0	16.4	16.2						
45	9.36	9.75	10.2	10.7	11.0	11.6	11.6	11.2	10.4	9.90	9.45	9.29						
50	5.55	5.86	6.11	6.48	6.77	6.98	7.01	6.86	6.40	6.03	5.74	5.52						
55	2.80	2.96	3.12	3.35	3.65	3.77	3.84	3.76	3.48	3.13	2.85	2.72						
60	1.41	1.43	1.46	1.56	1.70	1.82	1.88	1.83	1.72	1.50	1.36	1.32						
65	0.87	0.83	0.85	0.91	0.96	0.98	1.03	1.05	1.00	0.86	0.79	0.79						
70	0.43	0.40	0.41	0.46	0.53	0.54	0.58	0.60	0.57	0.47	0.41	0.40						
75	0.27	0.27	0.27	0.29	0.29	0.31	0.33	0.35	0.32	0.30	0.27	0.26						
80	0.18	0.17	0.17	0.19	0.18	0.20	0.22	0.22	0.21	0.20	0.17	0.16						
85	0.10	0.08	0.09	0.11	0.10	0.10	0.12	0.11	0.11	0.11	0.08	0.08						
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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