

Luminaire Photograph



Light Output Ratio:	83.9%	
Luminaire Power:	2.671 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: zoe
Test Date: 2026-3-17

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: GW CSSRMU.CM-M6MF-XX37-1 Ra:90
LENS: CA18103-TINA-Y-RS 18R
NOT DRIVER: DC 24V

30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

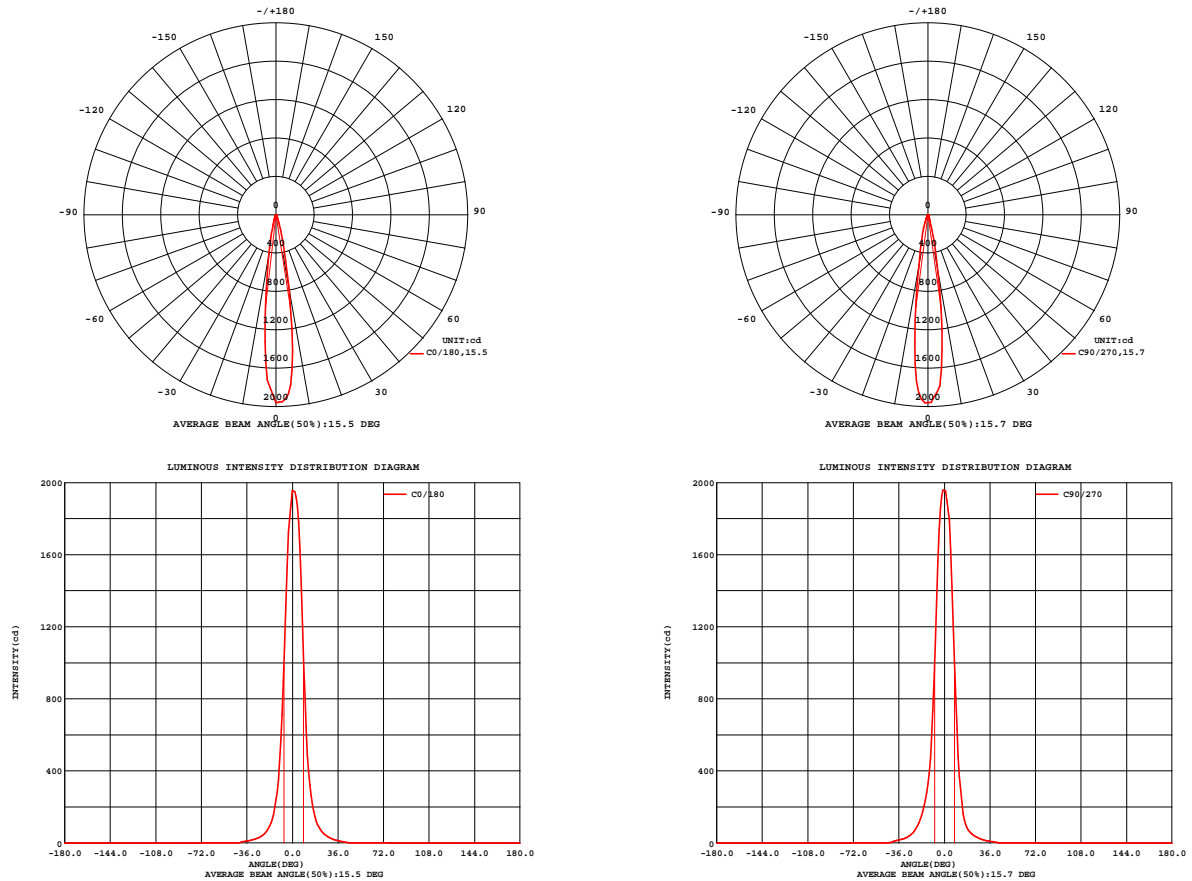


Fig. C0/C180

Fig. C90/C270

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: zoe
Test Date: 2026-3-17

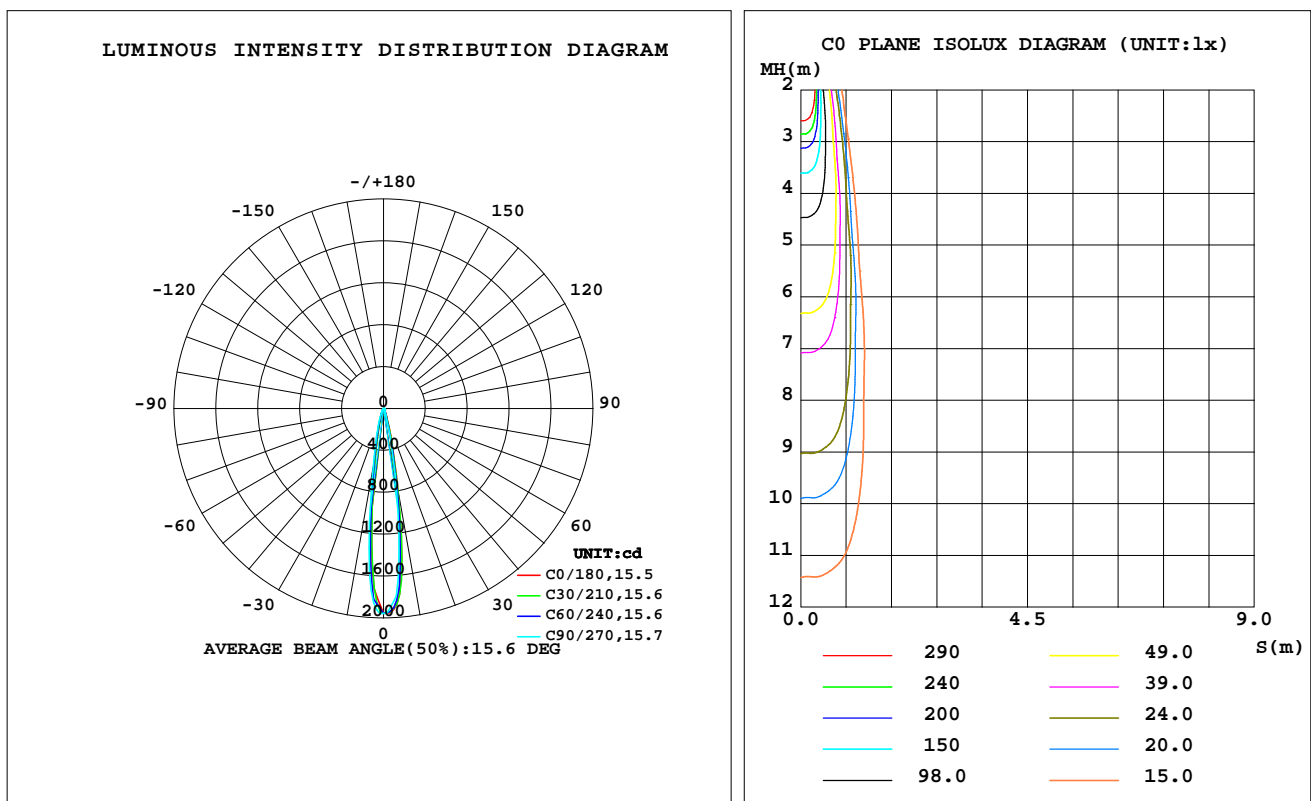
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LENS: CA18103-TINA-Y-RS 18R
NOT DRIVER: DC 24V

30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:23.997V I:0.1113A P:2.6709W PF:1.0000 Freq:49.99Hz Lamp Flux:251.47x1 lm		
NAME: 2417.239	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2603170034
MFR.: RISE	SUR.: 0.000283385m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 78.99 lm/W			
MODEL	OSRAM	I _{max} (cd)	1959	S/MH(C0/180)	0.23
NOMINAL POWER(W)	3	LOR(%)	83.9	S/MH(C90/270)	0.26
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	210.97	UP,DN(C0-180)	0.0,41.9
NOMINAL FLUX(lm)	251.47	CIE CLASS	DIRECT	UP,DN(C180-360)	0.0,42.0
LAMPS INSIDE	1	up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	24	down(%)	83.9	CIBSE SHR MAX	0.25



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ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

	C0	C45	C90	C135	C180	C225	C270	C315		zone	total	%lum,lamp
10	807.0	764.1	633.1	495.1	444.6	481.5	570.7	707.4	0- 10	115.5	115.5	54.8,45.9
20	101.2	79.78	63.27	57.75	68.57	84.62	112.6	116.6	10- 20	63.40	178.9	84.8,71.2
30	27.83	22.66	19.29	20.34	20.64	24.50	29.64	32.12	20- 30	21.09	200.0	94.8,79.5
40	7.175	5.427	5.062	4.610	5.401	7.276	10.04	9.804	30- 40	8.947	209.0	99,83.1
50	0.6169	0.6091	0.6600	0.5852	0.5189	0.5450	0.6676	0.7002	40- 50	1.513	210.5	99.8,83.7
60	0.2079	0.2010	0.2572	0.2444	0.2356	0.2197	0.2475	0.2713	50- 60	0.3310	210.8	99.9,83.8
70	0.0290	0.0296	0.0766	0.0651	0.0610	0.1061	0.0720	0.0794	60- 70	0.1505	211.0	100,83.9
80	0	0	0	0	0	0	0	0	70- 80	0.0100	211.0	100,83.9
90	0	0	0	0	0	0	0	0	80- 90	0	211.0	100,83.9
100	0	0	0	0	0	0	0	0	90-100	0	211.0	100,83.9
110	0	0	0	0	0	0	0	0	100-110	0	211.0	100,83.9
120	0	0	0	0	0	0	0	0	110-120	0	211.0	100,83.9
130	0	0	0	0	0	0	0	0	120-130	0	211.0	100,83.9
140	0	0	0	0	0	0	0	0	130-140	0	211.0	100,83.9
150	0	0	0	0	0	0	0	0	140-150	0	211.0	100,83.9
160	0	0	0	0	0	0	0	0	150-160	0	211.0	100,83.9
170	0	0	0	0	0	0	0	0	160-170	0	211.0	100,83.9
180	0	0	0	0	0	0	0	0	170-180	0	211.0	100,83.9
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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Operators:zoe
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Range: 0 - 180DEG
Interval: 1.0DEG
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Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:GW CSSRMU.CM-M6MF-XX37-1 Ra:90
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NOT DRIVER:DC 24V

30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:23.997V I:0.1113A P:2.6709W PF:1.0000 Freq:49.99Hz
Lamp Flux:251.47x1 lm

NAME: 2417.239

TYPE:

WEIGHT:

SPEC.: 3000K

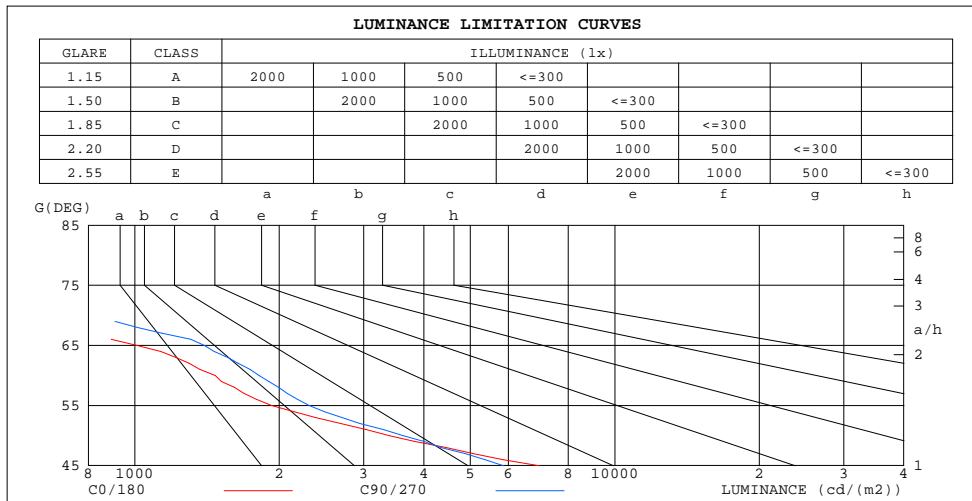
DIM.:

SERIAL No.: 2603170034

MFR.: RISE

SUR.: 0.000283385m2

Shielding Angle:



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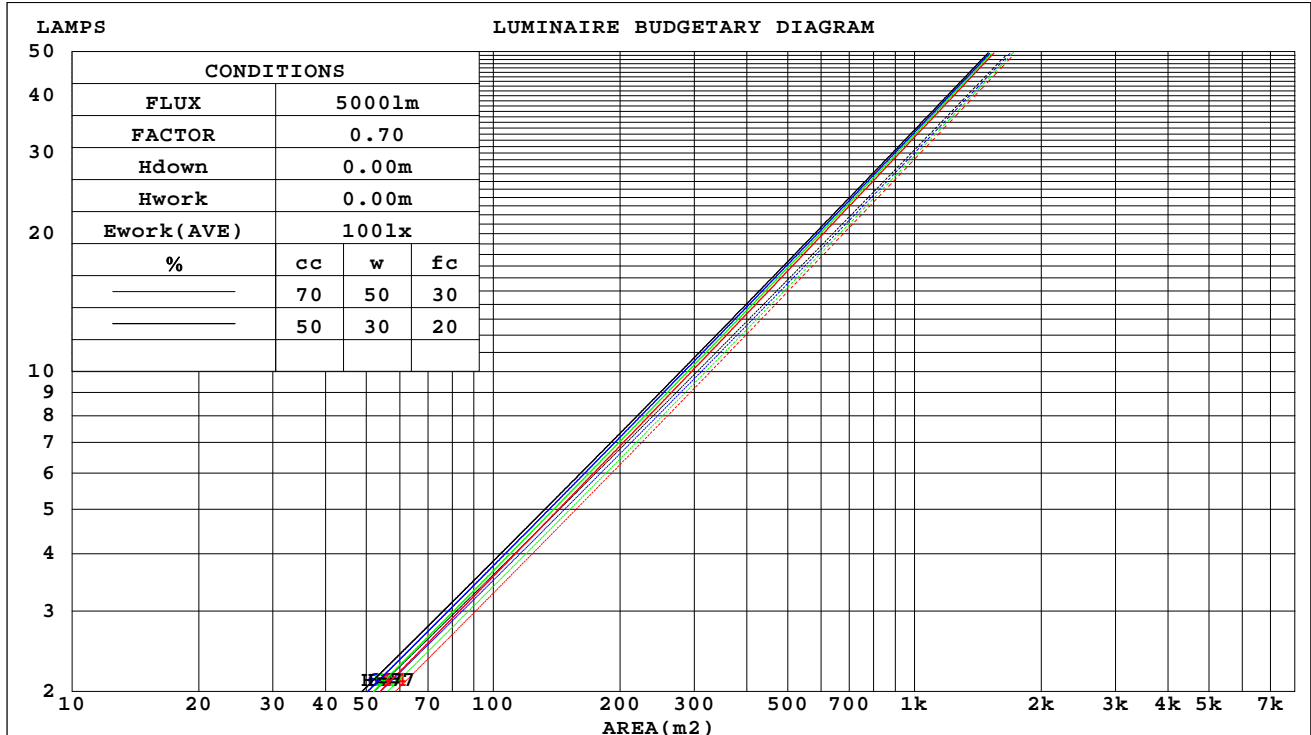
30minutes warm-up

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:23.997V I:0.1113A P:2.6709W PF:1.0000 Freq:49.99Hz
Lamp Flux:251.47x1 lm

NAME: 2417.239	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2603170034
MFR.: RISE	SUR.: 0.000283385m2	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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NAME: 2417.239	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2603170034
MFR.: RISE	SUR.: 0.000283385m2	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	.098	.056	.018	.088	.051	.016	.079	.045	.015	.070	.041	.013	
2.0	.095	.052	.016	.091	.050	.015	.083	.046	.014	.075	.042	.013	.068	.038	.012	
3.0	.088	.047	.014	.085	.045	.014	.078	.042	.013	.071	.039	.012	.065	.036	.011	
4.0	.082	.043	.013	.079	.041	.012	.073	.039	.012	.068	.036	.011	.063	.034	.010	
5.0	.077	.039	.011	.074	.038	.011	.069	.036	.011	.065	.034	.010	.060	.032	.010	
6.0	.072	.036	.010	.070	.035	.010	.066	.034	.010	.062	.032	.009	.058	.031	.009	
7.0	.068	.034	.010	.066	.033	.009	.062	.032	.009	.059	.030	.009	.056	.029	.009	
8.0	.064	.032	.009	.063	.031	.009	.060	.030	.009	.057	.029	.008	.054	.028	.008	
9.0	.061	.030	.008	.060	.029	.008	.057	.028	.008	.054	.027	.008	.052	.026	.008	
10.0	.058	.028	.008	.057	.028	.008	.055	.027	.008	.052	.026	.007	.050	.025	.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	.160	.160	.160	.137	.137	.137	.093	.093	.093	.054	.054	.054	.017	.017	.017	
1.0	.140	.132	.125	.120	.114	.108	.082	.078	.074	.047	.045	.043	.015	.015	.014	
2.0	.125	.111	.100	.107	.096	.087	.073	.066	.060	.042	.039	.035	.014	.012	.012	
3.0	.111	.095	.082	.095	.082	.071	.066	.057	.050	.038	.033	.029	.012	.011	.010	
4.0	.100	.082	.068	.086	.071	.059	.059	.049	.042	.034	.029	.025	.011	.009	.008	
5.0	.091	.071	.057	.078	.062	.050	.054	.043	.035	.031	.025	.021	.010	.008	.007	
6.0	.083	.063	.048	.071	.054	.042	.049	.038	.030	.029	.022	.018	.009	.007	.006	
7.0	.076	.056	.041	.066	.048	.036	.045	.034	.026	.026	.020	.015	.009	.007	.005	
8.0	.071	.050	.036	.061	.043	.031	.042	.030	.022	.024	.018	.013	.008	.006	.004	
9.0	.066	.045	.031	.056	.039	.027	.039	.027	.019	.023	.016	.012	.007	.005	.004	
10.0	.061	.041	.027	.053	.035	.024	.037	.025	.017	.021	.015	.010	.007	.005	.003	

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Interval: 1.0DEG
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30minutes warm-up

UGR(Unified Glare Rating) Table

Test:U:23.997V I:0.1113A P:2.6709W PF:1.0000 Freq:49.99Hz Lamp Flux:251.47x1 lm										
NAME: 2417.239					TYPE:			WEIGHT:		
SPEC.: 3000K					DIM.:			SERIAL No.: 2603170034		
MFR.: RISE					SUR.: 0.000283385m2			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	16.8	17.4	17.0	17.5	17.7	15.2	15.7	15.4	15.9	16.0
3H	16.7	17.2	16.9	17.4	17.6	15.1	15.6	15.3	15.8	15.9
4H	16.6	17.1	16.9	17.3	17.5	15.0	15.5	15.2	15.7	15.9
6H	16.5	17.0	16.8	17.2	17.5	14.9	15.4	15.2	15.6	15.8
8H	16.5	17.0	16.8	17.2	17.5	14.9	15.3	15.1	15.6	15.8
12H	16.5	16.9	16.8	17.2	17.4	14.8	15.3	15.1	15.5	15.8
4H 2H	16.6	17.1	16.9	17.3	17.5	15.0	15.5	15.2	15.7	15.9
3H	16.5	16.9	16.8	17.2	17.4	14.8	15.3	15.1	15.5	15.8
4H	16.4	16.8	16.7	17.1	17.4	14.7	15.1	15.1	15.4	15.7
6H	16.3	16.6	16.6	17.0	17.3	14.6	15.0	15.0	15.3	15.7
8H	16.2	16.6	16.6	16.9	17.3	14.6	14.9	14.9	15.3	15.6
12H	16.2	16.5	16.6	16.8	17.2	14.5	14.8	14.9	15.2	15.6
8H 4H	16.2	16.6	16.6	16.9	17.3	14.6	14.9	14.9	15.3	15.6
6H	16.1	16.4	16.5	16.8	17.2	14.4	14.7	14.9	15.1	15.5
8H	16.0	16.3	16.5	16.7	17.1	14.4	14.6	14.8	15.1	15.5
12H	16.0	16.2	16.4	16.6	17.1	14.3	14.5	14.8	15.0	15.4
12H 4H	16.2	16.5	16.6	16.8	17.2	14.5	14.8	14.9	15.2	15.6
6H	16.0	16.3	16.5	16.7	17.1	14.4	14.6	14.8	15.1	15.5
8H	16.0	16.2	16.4	16.6	17.1	14.3	14.5	14.8	15.0	15.4
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 4.2 / -13.8					+ 3.7 / -11.1				
1.5H	+ 6.8 / -11.8					+ 6.3 / -10.1				
2.0H	+ 5.8 / - 5.0					+ 4.5 / - 3.4				

CIE Pub.117, 251.5 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -4.8)
Area: 0.000283385 m2

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30minutes warm-up

UTILIZATION FACTORS TABLE

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SPEC.: 3000K	DIM.:	SERIAL No.: 2603170034
MFR.: RISE	SUR.: 0.000283385m2	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	72	69	76	71	69	75	71	69	66
0.80	82	78	75	82	78	75	81	77	75	72
1.00	85	81	78	85	81	78	83	80	78	75
1.25	88	84	82	87	84	81	86	83	81	78
1.50	90	87	84	89	86	84	88	85	83	79
2.00	92	89	87	91	88	86	89	86	85	81
2.50	93	91	88	92	89	87	90	88	86	81
3.00	95	92	90	93	91	89	90	89	87	82
4.00	96	94	92	94	93	91	91	90	89	83
5.00	97	95	94	95	94	93	92	91	90	84
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

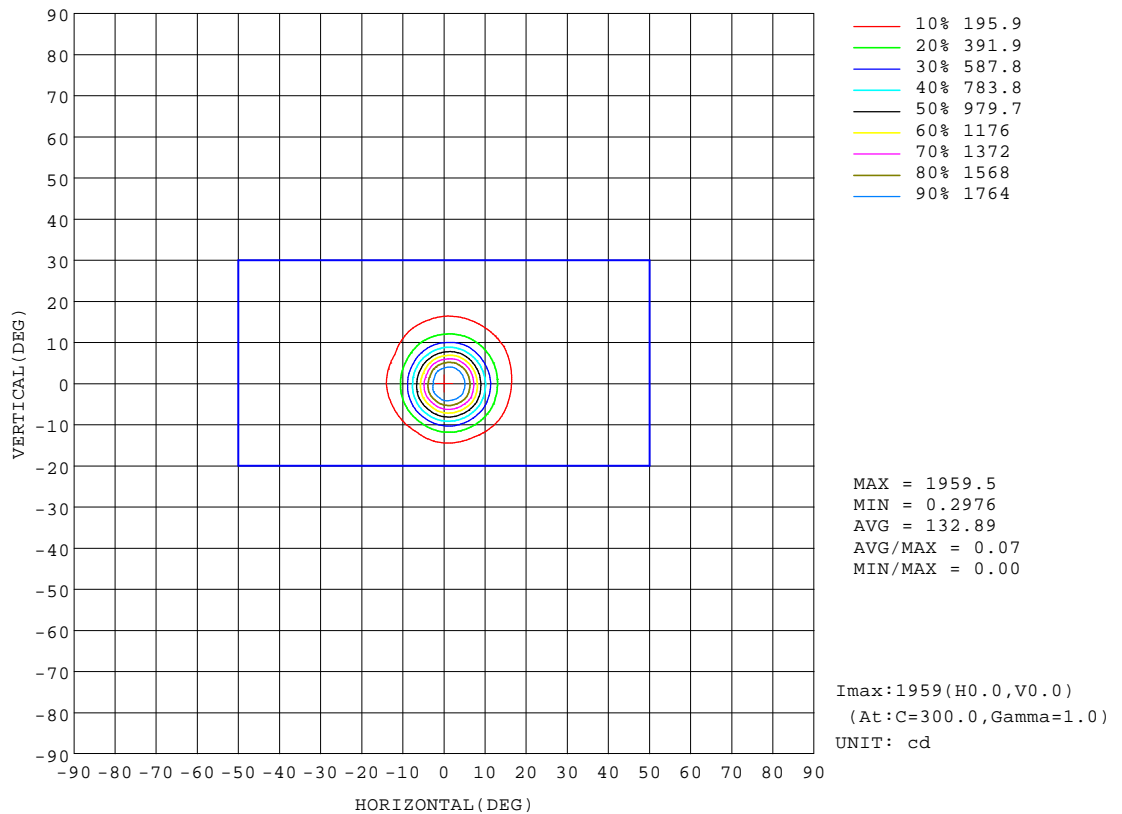
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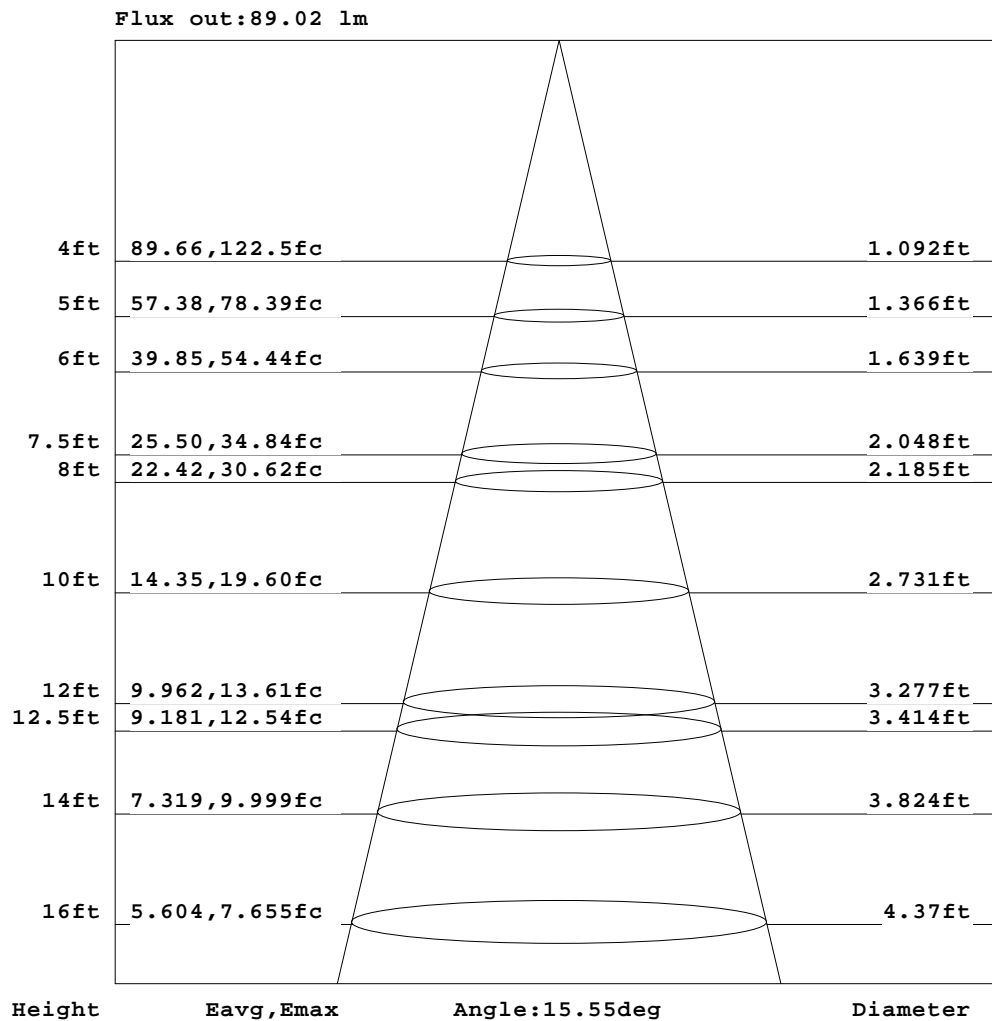
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AAI Figure

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SPEC.: 3000K	DIM.:	SERIAL No.: 2603170034
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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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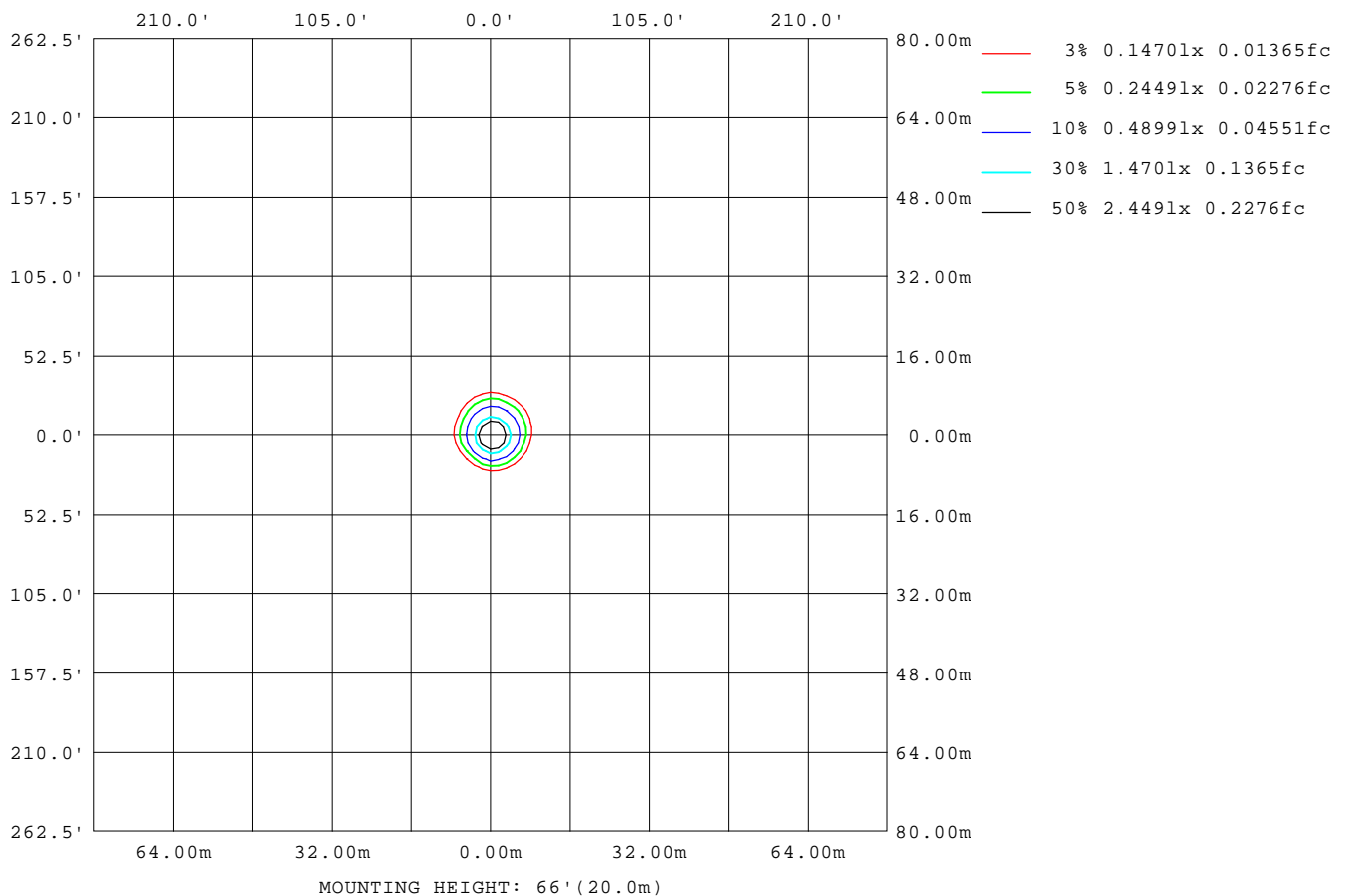
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ISOLUX DIAGRAM

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30minutes warm-up

LED Avg.L Report

Test:U:23.997V I:0.1113A P:2.6709W PF:1.0000 Freq:49.99Hz Lamp Flux:251.47x1 lm		
NAME: 2417.239	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2603170034
MFR.: RISE	SUR.: 0.000283385m2	Shielding Angle:

AvgL	cd/m2
L_0~180(65)av	1431
L_0~180(75)av	0
L_0~180(85)av	0
L_90~270(65)av	1416
L_90~270(75)av	0
L_90~270(85)av	0
L_45(65)av	1258
L_45(75)av	0
L_45(85)av	0

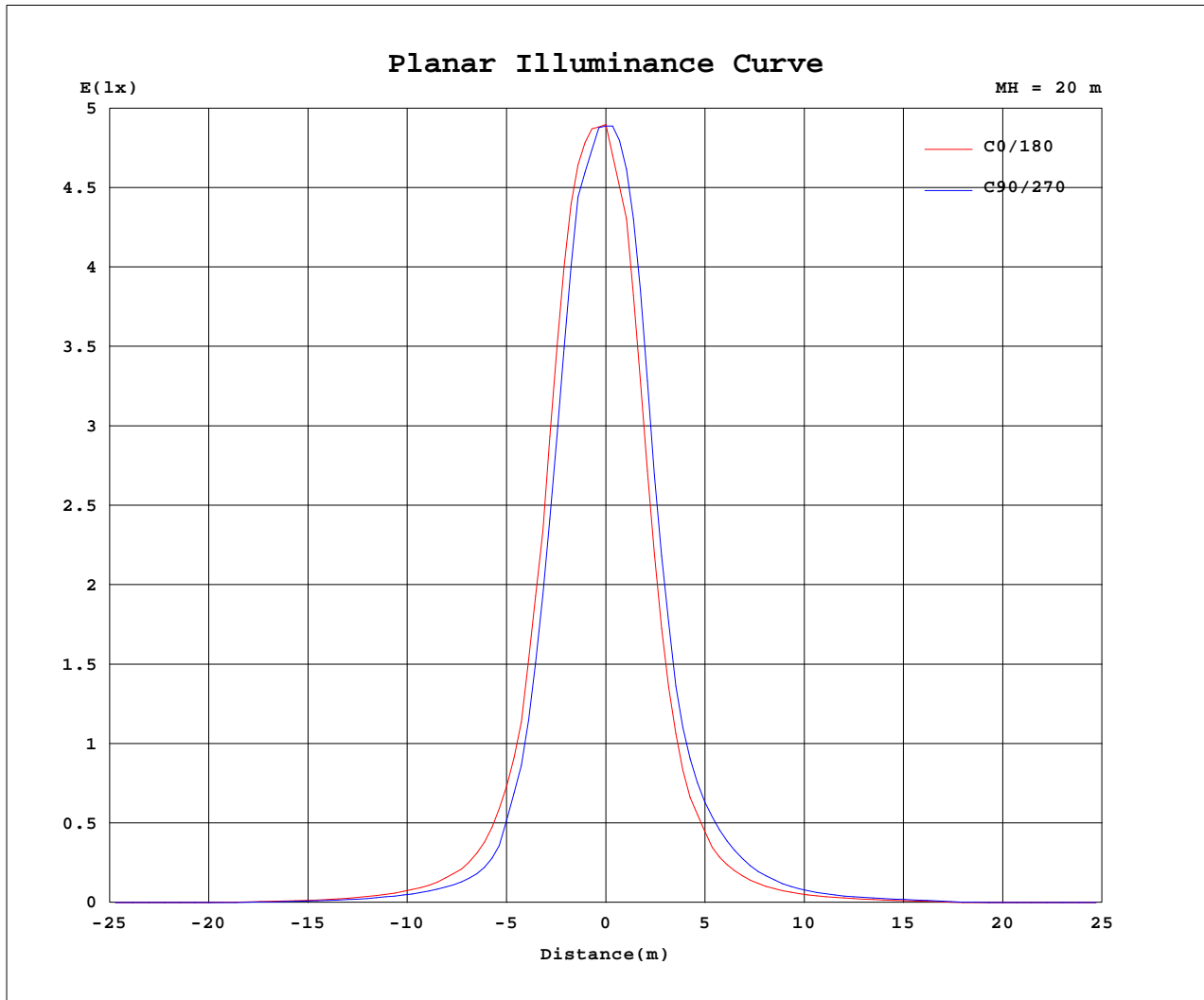
Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2026-3-17

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:GW CSSRMU.CM-M6MF-XX37-1 Ra:90
LENS:CA18103-TINA-Y-RS 18R
NOT DRIVER:DC 24V

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: 2026-3-17

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: GW CSSRMU.CM-M6MF-XX37-1 Ra:90
 LENS: CA18103-TINA-Y-RS 18R
 NOT DRIVER: DC 24V

30minutes warm-up



LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:23.997V I:0.1113A P:2.6709W PF:1.0000 Freq:49.99Hz Lamp Flux:251.47x1 lm		
NAME: 2417.239	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2603170034
MFR.: RISE	SUR.: 0.000283385m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	1957	1957	1957	1957	1957	1957	1957	1957	1957	1957	1957	1957						
5	1776	1786	1717	1621	1474	1401	1327	1306	1442	1561	1702	1758						
10	807	802	726	633	517	473	445	450	513	571	668	746						
15	262	252	190	160	132	136	154	156	212	240	258	274						
20	101	85.9	73.6	63.3	56.2	59.3	68.6	73.6	95.6	113	115	118						
25	50.9	42.9	37.9	34.1	33.4	33.8	35.1	39.2	48.4	54.6	55.1	57.3						
30	27.8	24.3	21.0	19.3	20.2	20.5	20.6	22.9	26.2	29.6	32.2	32.0						
35	14.5	12.5	11.1	10.7	10.5	11.2	12.1	13.6	15.3	18.7	19.8	18.3						
40	7.17	5.38	5.48	5.06	4.17	5.05	5.40	6.15	8.40	10.0	9.85	9.76						
45	1.39	1.26	1.18	1.18	1.13	0.91	0.92	0.95	1.06	1.31	1.44	1.50						
50	0.62	0.60	0.62	0.66	0.67	0.50	0.52	0.53	0.56	0.67	0.73	0.67						
55	0.31	0.30	0.31	0.38	0.40	0.31	0.34	0.32	0.33	0.36	0.41	0.35						
60	0.21	0.19	0.21	0.26	0.28	0.21	0.24	0.21	0.23	0.25	0.29	0.25						
65	0.12	0.10	0.14	0.17	0.19	0.13	0.22	0.15	0.15	0.17	0.20	0.16						
70	0.03	0.03	0.03	0.08	0.11	0.02	0.06	0.19	0.02	0.07	0.11	0.05						
75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
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
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