

Luminaire Photograph



Light Output Ratio:	74.2%	
Luminaire Power:	1.903 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.55	fine grid method.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: zoe
Test Date: 2026-3-18

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: PM-0142A-007-056 20R
NOT DRIVER: DC 24V

30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

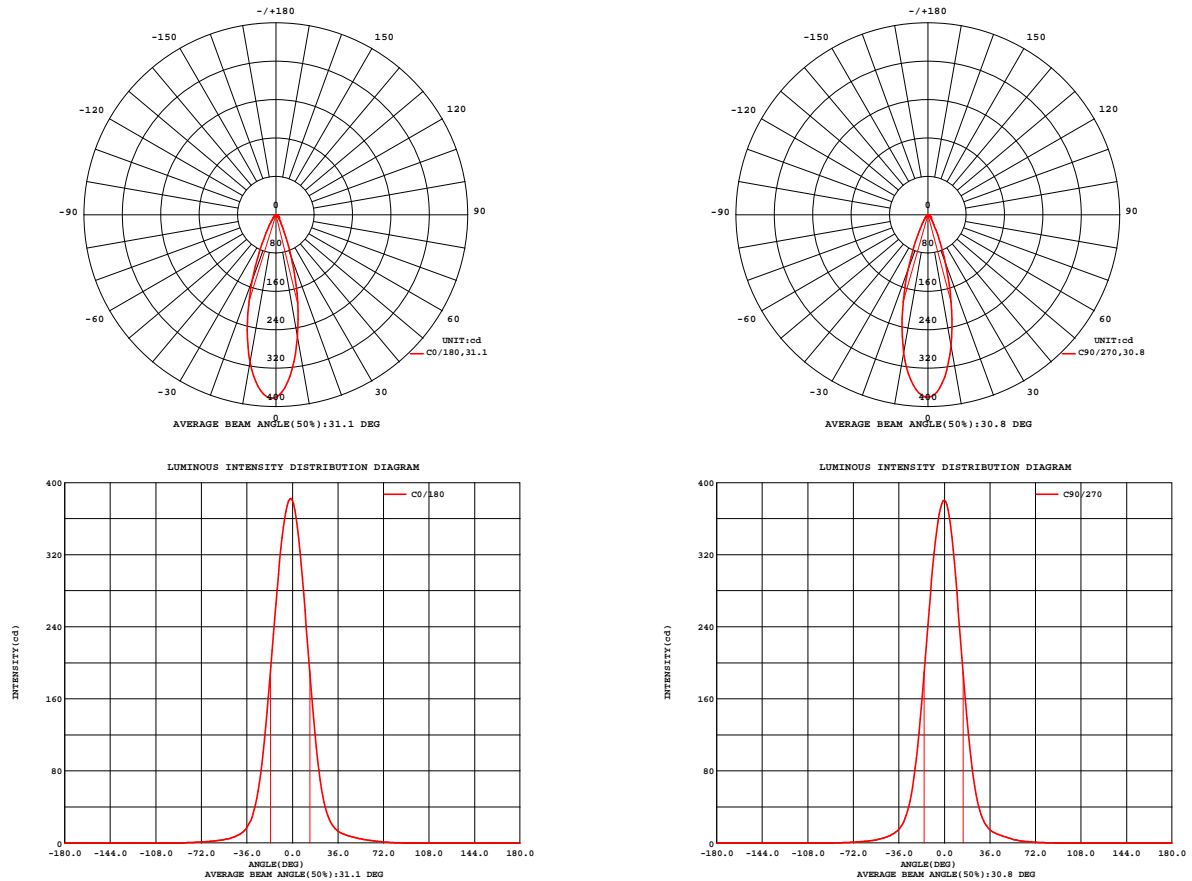


Fig. C0/C180

Fig. C90/C270

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: zoe
Test Date: 2026-3-18

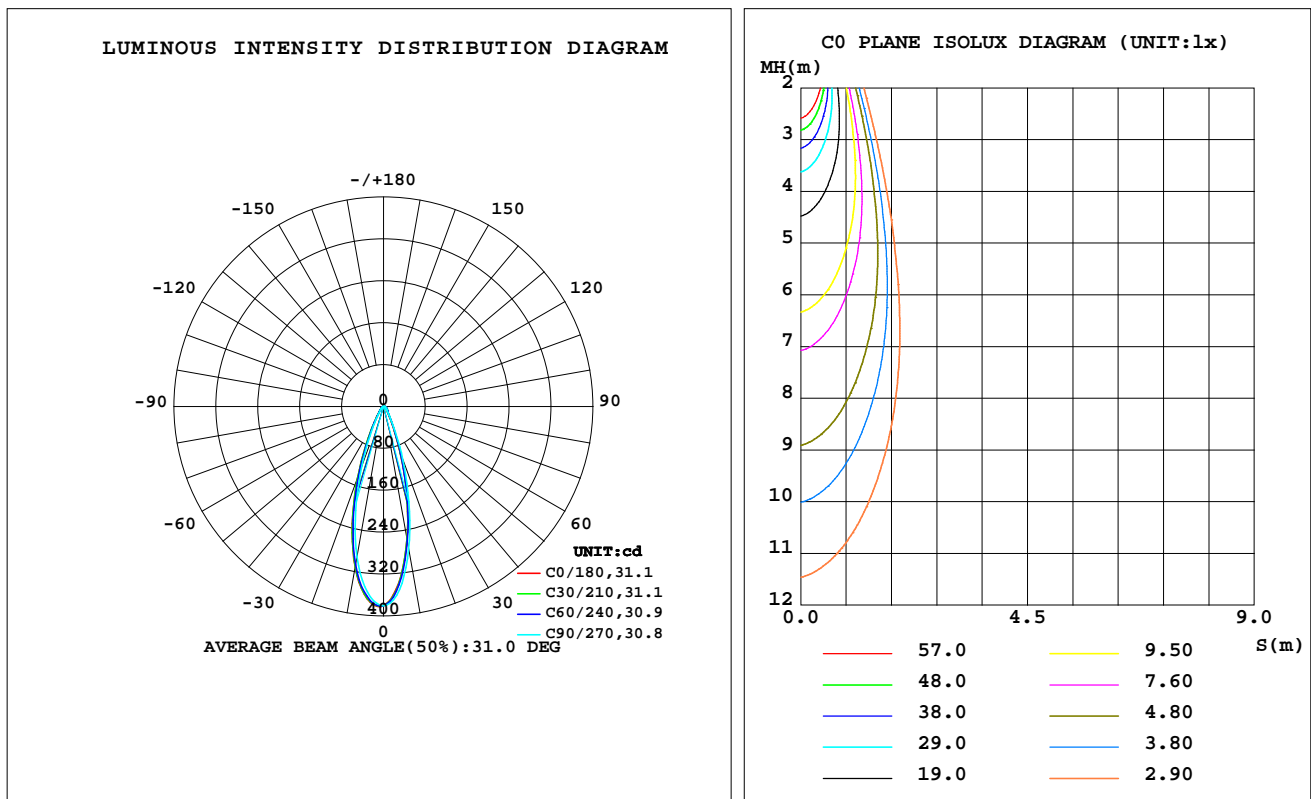
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NOT DRIVER: DC 24V

30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:23.997V I:0.0793A P:1.9030W PF:1.0000 Freq:49.99Hz Lamp Flux:188.78x1 lm		
NAME: 2417.238	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2603180029
MFR.: RISE	SUR.: 0.00005024m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 73.61 lm/W			
MODEL	OSRAM	I _{max} (cd)	382.5	S/MH(C0/180)	0.57
NOMINAL POWER(W)	2	LOR(%)	74.2	S/MH(C90/270)	0.53
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	140.08	UP,DN(C0-180)	0.0,35.5
NOMINAL FLUX(lm)	188.78	CIE CLASS	DIRECT	UP,DN(C180-360)	0.0,38.7
LAMPS INSIDE	1	up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	24	down(%)	74.2	CIBSE SHR MAX	0.55



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ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

	C0	C45	C90	C135	C180	C225	C270	C315		zone	total	%lum,lamp
10	258.3	259.9	277.1	297.7	312.5	309.6	292.0	271.3	0- 10	31.49	31.49	22.5,16.7
20	92.13	95.30	108.6	129.9	145.2	141.5	121.8	103.4	10- 20	54.02	85.51	61,45.3
30	23.77	25.84	27.81	32.91	37.08	37.33	30.81	26.39	20- 30	28.79	114.3	81.6,60.5
40	10.17	12.31	11.09	11.78	11.21	12.70	10.42	10.58	30- 40	11.44	125.7	89.8,66.6
50	5.925	7.435	5.948	6.152	4.944	6.584	4.712	6.146	40- 50	6.519	132.3	94.4,70.1
60	3.196	4.063	2.417	3.278	2.573	4.003	2.218	3.504	50- 60	4.113	136.4	97.3,72.2
70	1.423	1.825	0.9820	1.723	1.301	2.105	1.044	1.821	60- 70	2.412	138.8	99.1,73.5
80	0.4016	0.4744	0.3152	0.6192	0.5488	0.7630	0.3792	0.5752	70- 80	1.095	139.9	99.8,74.1
90	0	0	0	0	0	0	0	0	80- 90	0.2105	140.1	100,74.2
100	0	0	0	0	0	0	0	0	90-100	0	140.1	100,74.2
110	0	0	0	0	0	0	0	0	100-110	0	140.1	100,74.2
120	0	0	0	0	0	0	0	0	110-120	0	140.1	100,74.2
130	0	0	0	0	0	0	0	0	120-130	0	140.1	100,74.2
140	0	0	0	0	0	0	0	0	130-140	0	140.1	100,74.2
150	0	0	0	0	0	0	0	0	140-150	0	140.1	100,74.2
160	0	0	0	0	0	0	0	0	150-160	0	140.1	100,74.2
170	0	0	0	0	0	0	0	0	160-170	0	140.1	100,74.2
180	0	0	0	0	0	0	0	0	170-180	0	140.1	100,74.2
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

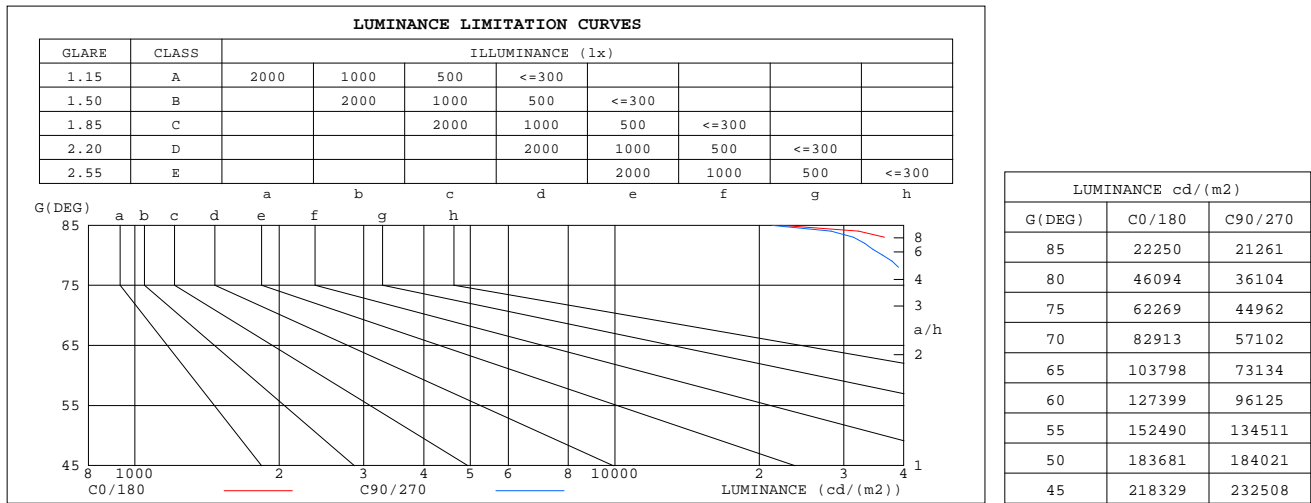
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30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:23.997V I:0.0793A P:1.9030W PF:1.0000 Freq:49.99Hz Lamp Flux:188.78x1 lm		
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SPEC.: 3000K	DIM.:	SERIAL No.: 2603180029
MFR.: RISE	SUR.: 0.00005024m2	Shielding Angle:



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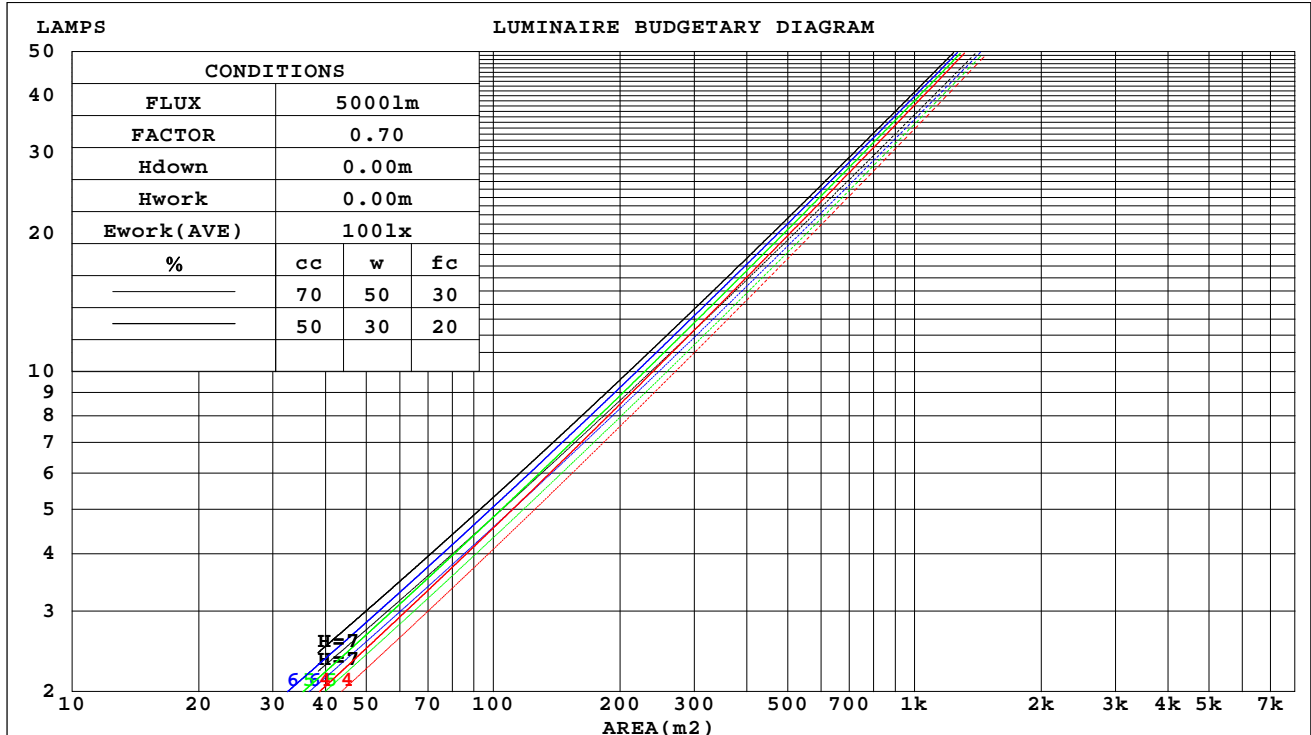
30minutes warm-up

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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NAME: 2417.238	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2603180029
MFR.: RISE	SUR.: 0.00005024m2	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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SPEC.: 3000K	DIM.:	SERIAL No.: 2603180029
MFR.: RISE	SUR.: 0.00005024m2	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	.125	.071	.023	.120	.069	.022	.111	.064	.020	.102	.059	.019	.094	.055	.018		
2.0	.118	.065	.020	.114	.063	.019	.106	.059	.018	.099	.055	.017	.092	.052	.016		
3.0	.111	.059	.018	.107	.057	.017	.101	.055	.017	.095	.052	.016	.089	.049	.015		
4.0	.104	.054	.016	.101	.053	.016	.095	.051	.015	.090	.048	.015	.085	.046	.014		
5.0	.098	.050	.014	.096	.049	.014	.091	.047	.014	.086	.045	.014	.082	.044	.013		
6.0	.093	.047	.013	.091	.046	.013	.086	.044	.013	.082	.043	.013	.079	.041	.012		
7.0	.088	.044	.012	.086	.043	.012	.082	.042	.012	.079	.040	.012	.076	.039	.012		
8.0	.084	.041	.012	.082	.040	.011	.079	.039	.011	.076	.038	.011	.073	.037	.011		
9.0	.080	.039	.011	.078	.038	.011	.075	.037	.011	.073	.036	.010	.070	.036	.010		
10.0	.076	.037	.010	.075	.036	.010	.072	.035	.010	.070	.035	.010	.067	.034	.010		

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	.141	.141	.141	.121	.121	.121	.082	.082	.082	.047	.047	.047	.015	.015	.015	
1.0	.127	.117	.108	.108	.100	.093	.074	.069	.064	.043	.040	.037	.014	.013	.012	
2.0	.115	.098	.085	.098	.085	.073	.067	.059	.051	.039	.034	.030	.012	.011	.010	
3.0	.105	.084	.068	.090	.073	.059	.062	.050	.041	.036	.029	.024	.011	.010	.008	
4.0	.096	.073	.055	.083	.063	.048	.057	.044	.034	.033	.026	.020	.011	.008	.007	
5.0	.089	.064	.046	.077	.056	.040	.053	.039	.028	.031	.023	.017	.010	.007	.006	
6.0	.083	.057	.039	.072	.050	.034	.049	.035	.024	.029	.020	.014	.009	.007	.005	
7.0	.078	.051	.033	.067	.045	.029	.046	.031	.020	.027	.018	.012	.009	.006	.004	
8.0	.073	.047	.028	.063	.040	.025	.044	.028	.017	.025	.017	.010	.008	.005	.003	
9.0	.069	.043	.025	.060	.037	.021	.041	.026	.015	.024	.015	.009	.008	.005	.003	
10.0	.066	.039	.022	.057	.034	.019	.039	.024	.013	.023	.014	.008	.007	.005	.003	

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30minutes warm-up

UGR(Unified Glare Rating) Table

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SPEC.: 3000K					DIM.:			SERIAL No.: 2603180029		
MFR.: RISE					SUR.: 0.00005024m2			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	31.8	32.6	32.0	32.8	32.9	31.7	32.5	31.9	32.7	32.9
3H	32.3	33.1	32.5	33.3	33.5	32.0	32.8	32.3	33.0	33.2
4H	32.4	33.2	32.7	33.4	33.6	32.1	32.8	32.3	33.0	33.2
6H	32.4	33.1	32.7	33.4	33.6	32.1	32.8	32.4	33.0	33.2
8H	32.4	33.1	32.7	33.4	33.6	32.1	32.7	32.4	33.0	33.2
12H	32.4	33.0	32.7	33.3	33.6	32.0	32.7	32.3	32.9	33.2
4H 2H	32.1	32.9	32.4	33.1	33.3	32.1	32.8	32.4	33.0	33.3
3H	32.8	33.5	33.1	33.7	34.0	32.6	33.2	32.9	33.5	33.8
4H	33.0	33.6	33.4	33.9	34.2	32.7	33.3	33.0	33.6	33.9
6H	33.1	33.6	33.5	33.9	34.3	32.7	33.3	33.1	33.6	33.9
8H	33.1	33.6	33.5	33.9	34.3	32.7	33.2	33.1	33.6	33.9
12H	33.0	33.5	33.5	33.9	34.3	32.7	33.1	33.1	33.5	33.9
8H 4H	33.0	33.5	33.4	33.9	34.2	32.7	33.2	33.1	33.6	33.9
6H	33.2	33.6	33.6	34.0	34.4	32.8	33.2	33.3	33.6	34.0
8H	33.2	33.5	33.6	33.9	34.4	32.8	33.2	33.3	33.6	34.1
12H	33.2	33.5	33.6	33.9	34.4	32.8	33.1	33.3	33.6	34.0
12H 4H	33.0	33.4	33.4	33.8	34.2	32.7	33.2	33.1	33.5	33.9
6H	33.1	33.5	33.6	33.9	34.3	32.8	33.2	33.3	33.6	34.0
8H	33.2	33.5	33.6	33.9	34.4	32.8	33.1	33.3	33.6	34.0
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.7 / - 0.9					+ 0.8 / - 1.1				
1.5H	+ 0.4 / - 0.9					+ 0.4 / - 1.1				
2.0H	+ 0.9 / - 1.5					+ 1.3 / - 2.5				

CIE Pub.117, 188.8 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -5.8)
Area: 5.024e-005 m2

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30minutes warm-up

UTILIZATION FACTORS TABLE

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NAME: 2417.238	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2603180029
MFR.: RISE	SUR.: 0.00005024m2	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	63	58	55	63	58	55	62	58	55	52
0.80	69	64	61	68	64	61	67	63	61	58
1.00	72	68	65	72	68	65	70	68	64	61
1.25	75	71	69	75	71	68	73	70	68	64
1.50	78	74	71	77	73	71	75	72	70	66
2.00	80	76	74	79	76	73	77	74	72	68
2.50	81	78	76	80	77	75	78	75	74	69
3.00	82	80	78	81	79	77	79	77	75	70
4.00	84	82	80	83	81	79	80	78	77	72
5.00	85	83	82	83	82	81	80	79	78	73
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

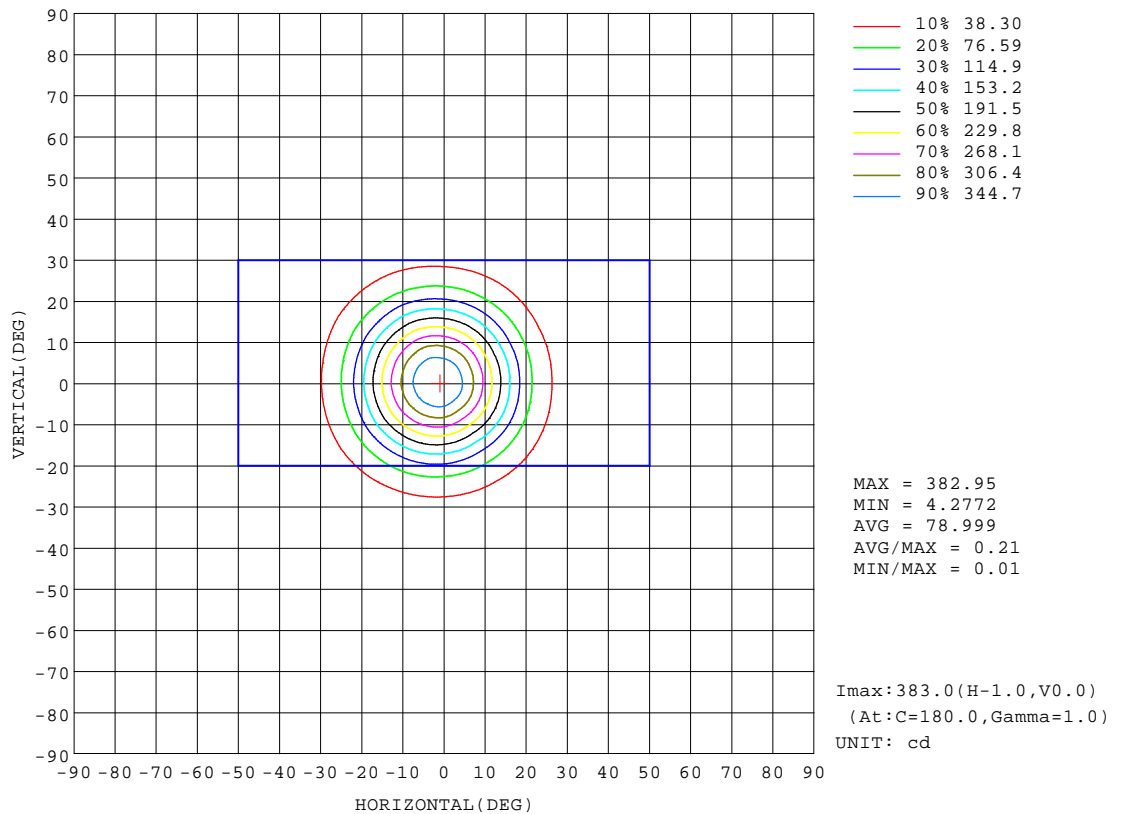
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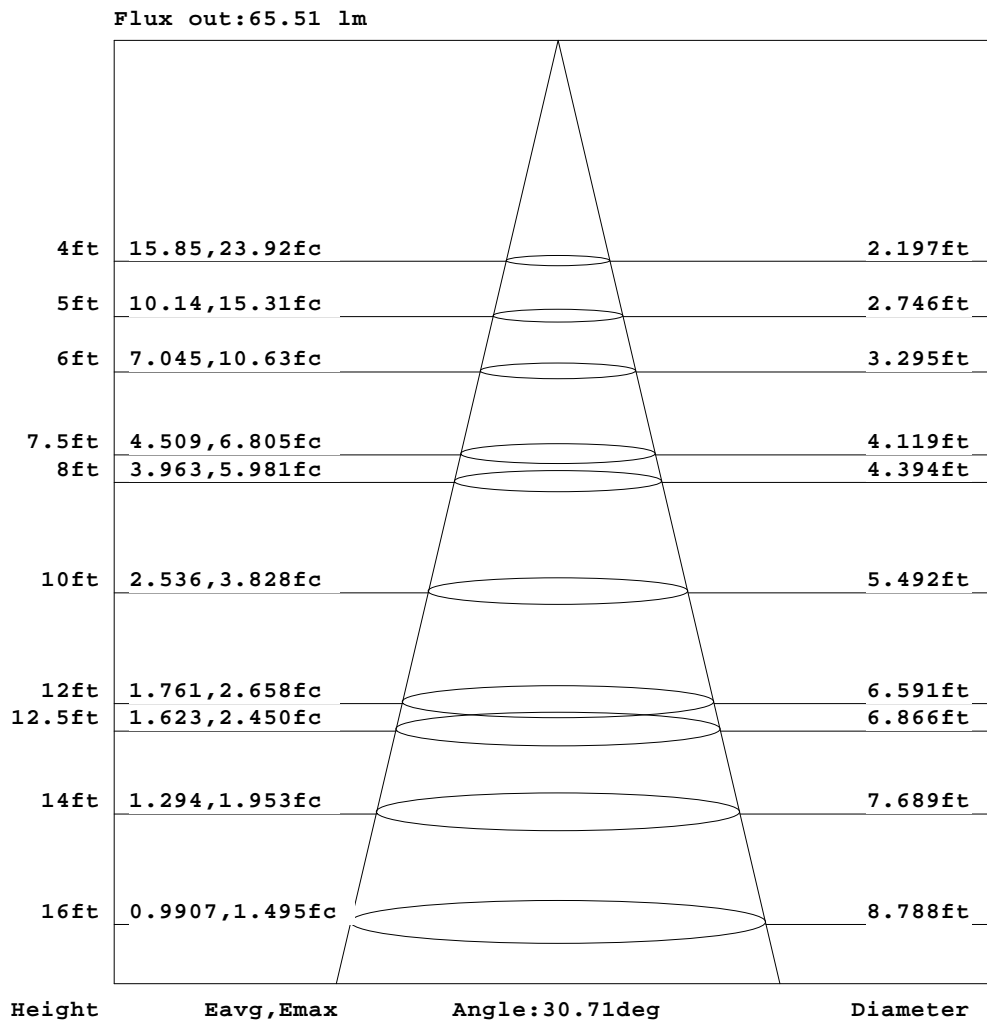
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AAI Figure

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

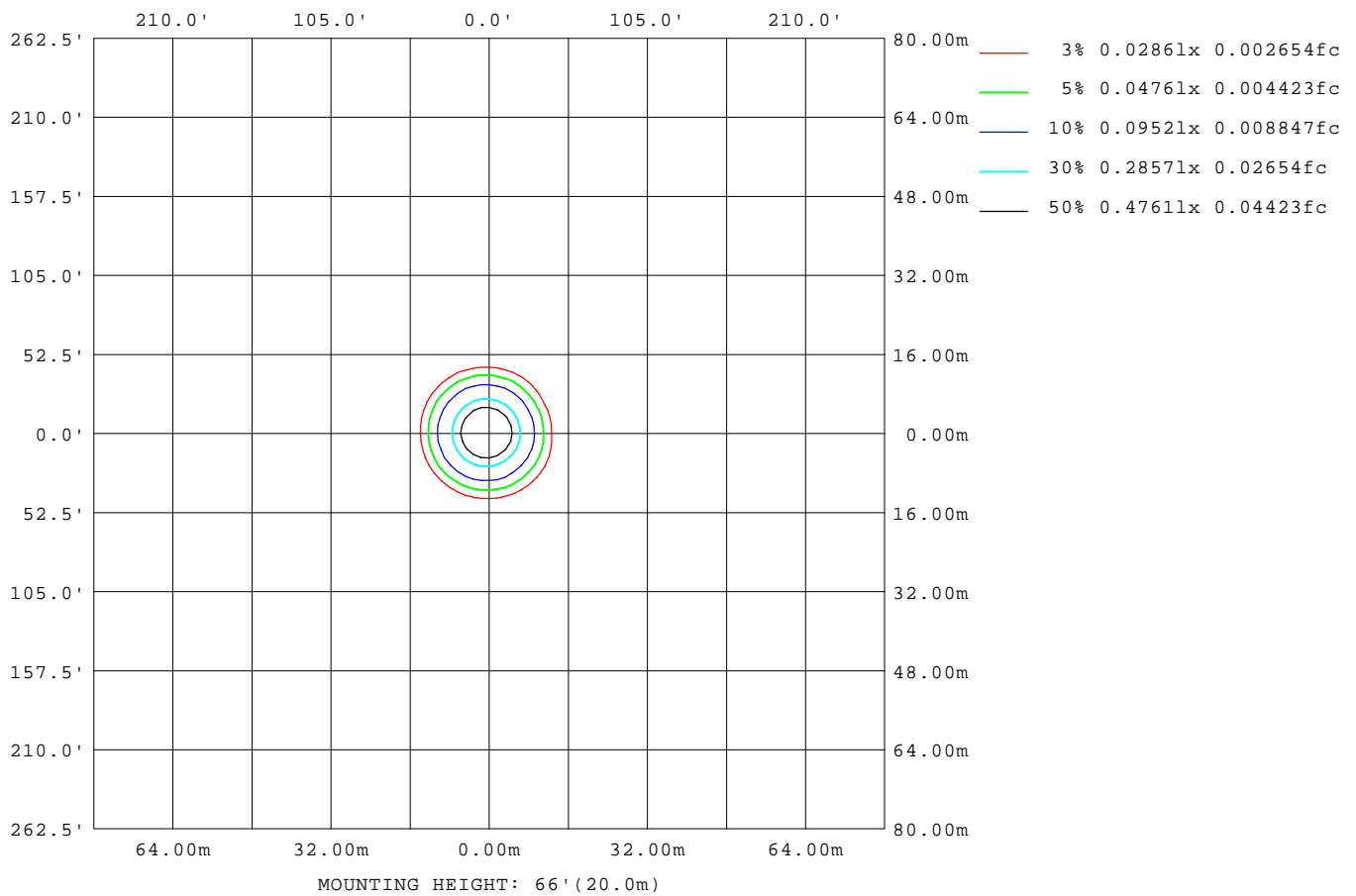
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ISOLUX DIAGRAM

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30minutes warm-up

LED Avg.L Report

Test:U:23.997V I:0.0793A P:1.9030W PF:1.0000 Freq:49.99Hz Lamp Flux:188.78x1 lm		
NAME: 2417.238	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2603180029
MFR.: RISE	SUR.: 0.00005024m2	Shielding Angle:

AvgL	cd/m2
L_0~180(65)av	95635
L_0~180(75)av	65049
L_0~180(85)av	39170
L_90~270(65)av	72991
L_90~270(75)av	48024
L_90~270(85)av	26537
L_45(65)av	133986
L_45(75)av	92459
L_45(85)av	46283

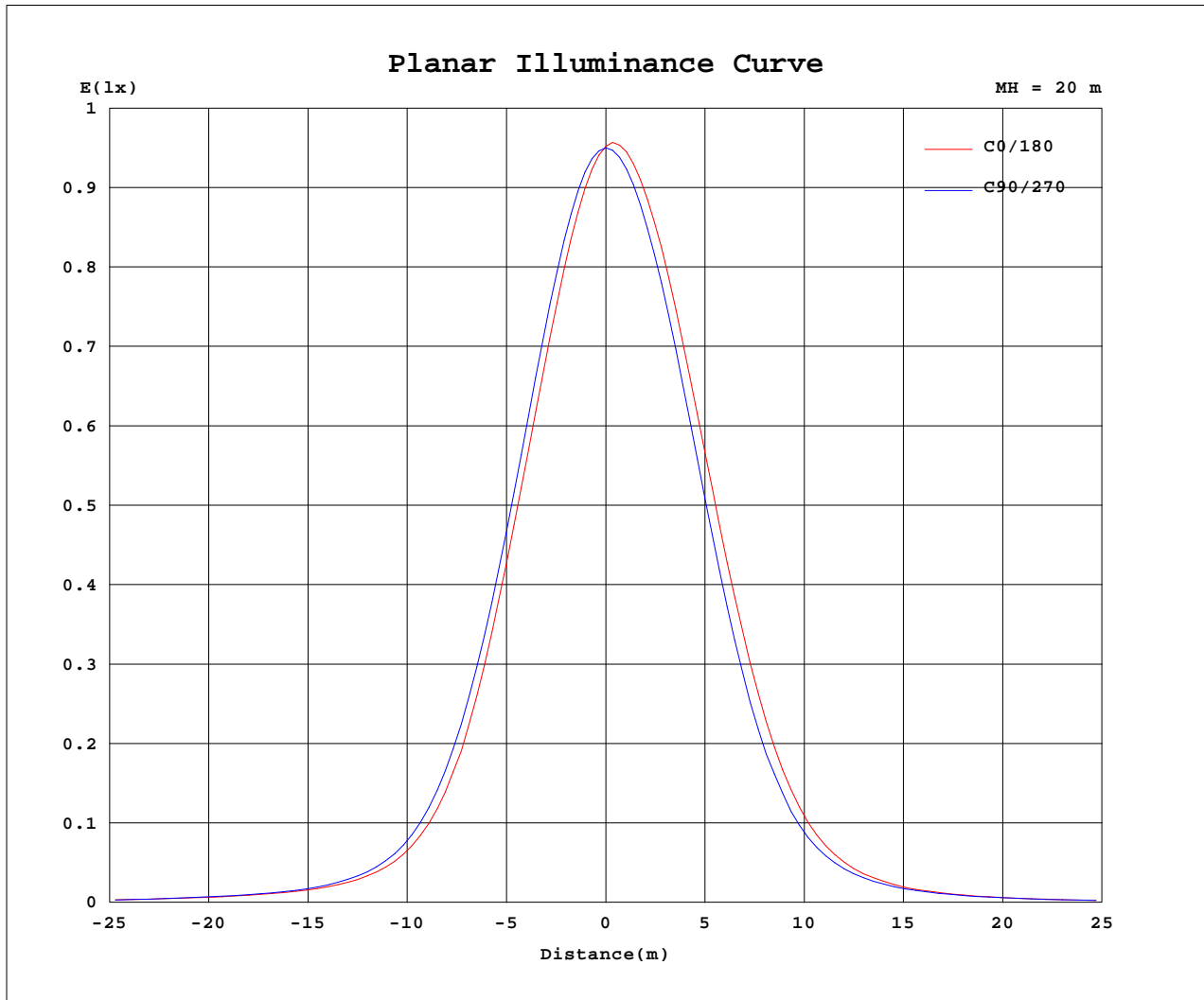
Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2026-3-18

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:PM-0142A-007-056 20R
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: 2026-3-18

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: PM-0142A-007-056 20R
 NOT DRIVER: DC 24V

30minutes warm-up

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:23.997V I:0.0793A P:1.9030W PF:1.0000 Freq:49.99Hz Lamp Flux:188.78x1 lm		
NAME: 2417.238	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2603180029
MFR.: RISE	SUR.: 0.00005024m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	380	380	380	380	380	380	380	380	380	380	380	380						
5	338	339	342	351	358	365	368	367	364	356	349	341						
10	258	258	261	277	291	305	313	312	308	292	278	264						
15	170	171	173	188	205	222	231	230	224	206	191	176						
20	92.1	94.4	96.2	109	122	138	145	145	138	122	110	97.1						
25	45.4	46.8	48.3	54.5	61.9	71.4	76.4	78.7	72.2	61.9	54.9	47.9						
30	23.8	25.5	26.2	27.8	30.8	35.1	37.1	38.8	35.8	30.8	28.3	24.5						
35	14.6	16.5	16.9	16.2	17.6	19.3	19.6	21.1	19.9	17.0	16.5	14.5						
40	10.2	12.1	12.5	11.1	11.7	11.8	11.2	13.2	12.2	10.4	11.2	10.0						
45	7.75	9.33	9.91	8.27	8.54	8.28	7.24	9.22	8.59	6.95	8.30	7.66						
50	5.92	7.23	7.64	5.95	6.18	6.13	4.94	6.79	6.38	4.71	6.25	6.05						
55	4.39	5.49	5.65	3.88	4.28	4.56	3.51	5.32	4.89	3.17	4.65	4.63						
60	3.20	4.12	4.01	2.42	3.01	3.54	2.57	4.23	3.78	2.22	3.49	3.52						
65	2.20	2.91	2.76	1.55	2.16	2.73	1.86	3.21	2.80	1.55	2.58	2.67						
70	1.42	1.87	1.78	0.98	1.47	1.97	1.30	2.26	1.95	1.04	1.75	1.89						
75	0.81	1.04	1.00	0.59	0.92	1.30	0.88	1.46	1.24	0.66	1.07	1.17						
80	0.40	0.48	0.47	0.32	0.50	0.74	0.55	0.83	0.70	0.38	0.56	0.60						
85	0.10	0.10	0.06	0.09	0.18	0.29	0.25	0.33	0.28	0.14	0.18	0.15						
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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