

Luminaire Photograph



Light Output Ratio:	83.3%	
Luminaire Power:	2.666 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: 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: CA18105-TINA-Y-W 36R
NOT DRIVER: DC 24V

30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

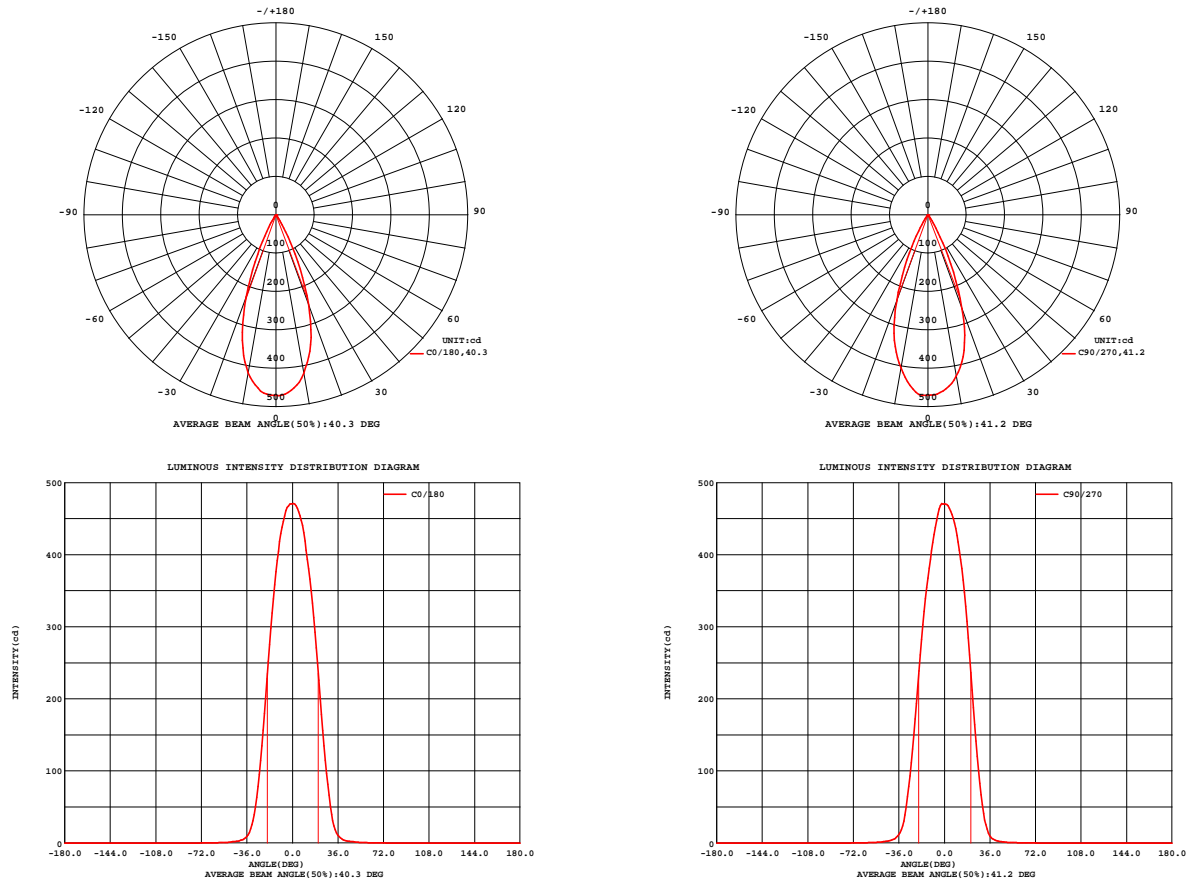


Fig. C0/C180

Fig. C90/C270

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Temperature: 25.3 °C
Operators: zoe
Test Date: 2026-3-17

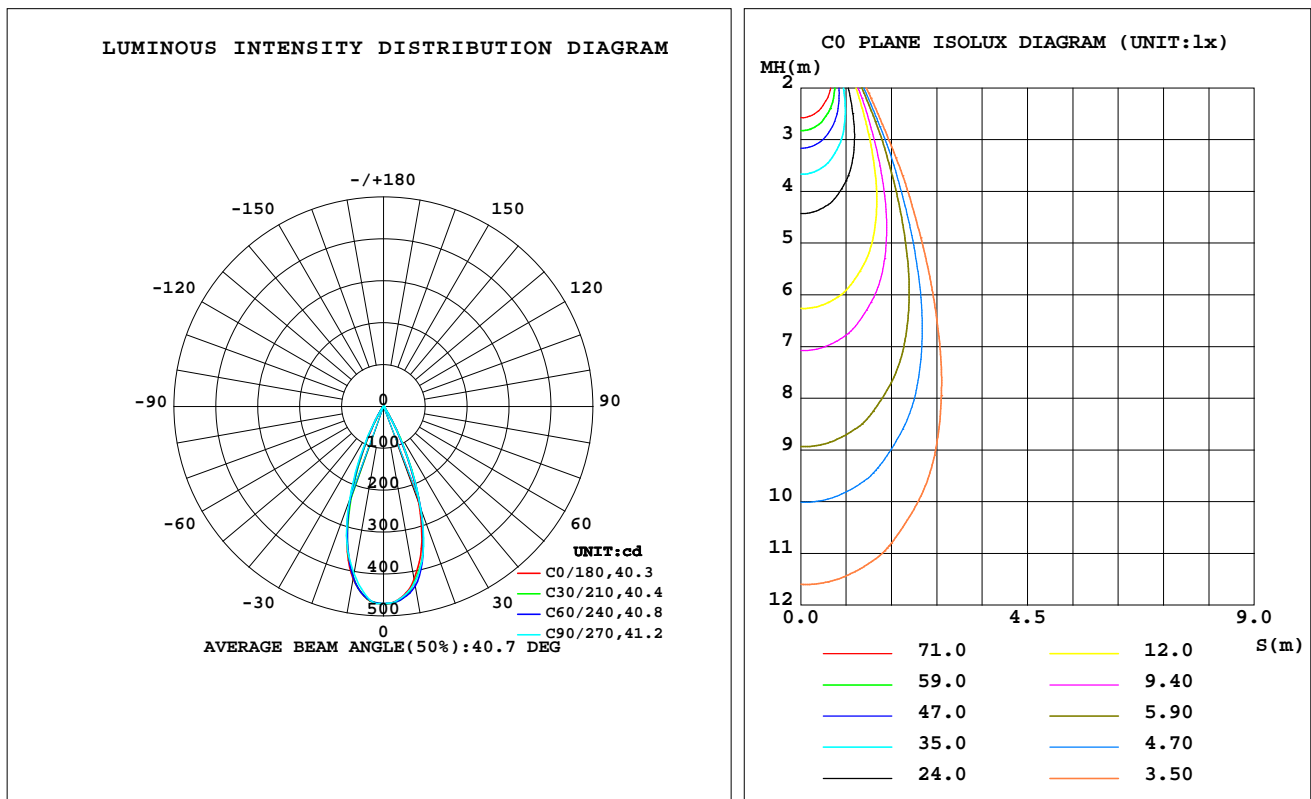
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NOT DRIVER: DC 24V

30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:23.997V I:0.1111A P:2.6661W PF:1.0000 Freq:49.99Hz Lamp Flux:251.47x1 lm		
NAME: 2417.239	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2603170036
MFR.: RISE	SUR.: 0.000283385m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 78.58 lm/W			
MODEL	OSRAM	I _{max} (cd)	471.0	S/MH(C0/180)	0.61
NOMINAL POWER(W)	3	LOR(%)	83.3	S/MH(C90/270)	0.63
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	209.50	UP,DN(C0-180)	0.0,42.5
NOMINAL FLUX(lm)	251.47	CIE CLASS	DIRECT	UP,DN(C180-360)	0.0,40.8
LAMPS INSIDE	1	up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	24	down(%)	83.3	CIBSE SHR MAX	0.65



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ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

	C0	C45	C90	C135	C180	C225	C270	C315		zone	total	%lum,lamp
10	418.9	430.4	426.7	417.8	418.3	414.8	405.0	414.2	0- 10	42.58	42.58	20.3,16.9
20	248.8	258.4	260.7	233.7	227.8	227.0	238.7	241.4	10- 20	93.75	136.3	65.1,54.2
30	51.12	53.25	53.13	43.65	39.37	45.27	49.90	49.40	20- 30	59.44	195.8	93.4,77.8
40	4.780	4.258	4.154	4.329	4.097	4.944	5.138	5.281	30- 40	10.80	206.6	98.6,82.1
50	1.241	0.9776	0.8818	1.124	0.9823	1.366	1.284	1.421	40- 50	1.914	208.5	99.5,82.9
60	0.4219	0.3191	0.3497	0.5249	0.3807	0.8242	0.4875	0.5650	50- 60	0.6941	209.2	99.8,83.2
70	0.0446	0.0329	0.0397	0.1469	0.0480	0.3896	0.0455	0.1030	60- 70	0.3044	209.5	100,83.3
80	0	0	0	0	0	0	0	0	70- 80	0.0236	209.5	100,83.3
90	0	0	0	0	0	0	0	0	80- 90	0	209.5	100,83.3
100	0	0	0	0	0	0	0	0	90-100	0	209.5	100,83.3
110	0	0	0	0	0	0	0	0	100-110	0	209.5	100,83.3
120	0	0	0	0	0	0	0	0	110-120	0	209.5	100,83.3
130	0	0	0	0	0	0	0	0	120-130	0	209.5	100,83.3
140	0	0	0	0	0	0	0	0	130-140	0	209.5	100,83.3
150	0	0	0	0	0	0	0	0	140-150	0	209.5	100,83.3
160	0	0	0	0	0	0	0	0	150-160	0	209.5	100,83.3
170	0	0	0	0	0	0	0	0	160-170	0	209.5	100,83.3
180	0	0	0	0	0	0	0	0	170-180	0	209.5	100,83.3
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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Humidity:65.0%
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NOT DRIVER:DC 24V

30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:23.997V I:0.1111A P:2.6661W PF:1.0000 Freq:49.99Hz
Lamp Flux:251.47x1 lm

NAME: 2417.239

TYPE:

WEIGHT:

SPEC.: 3000K

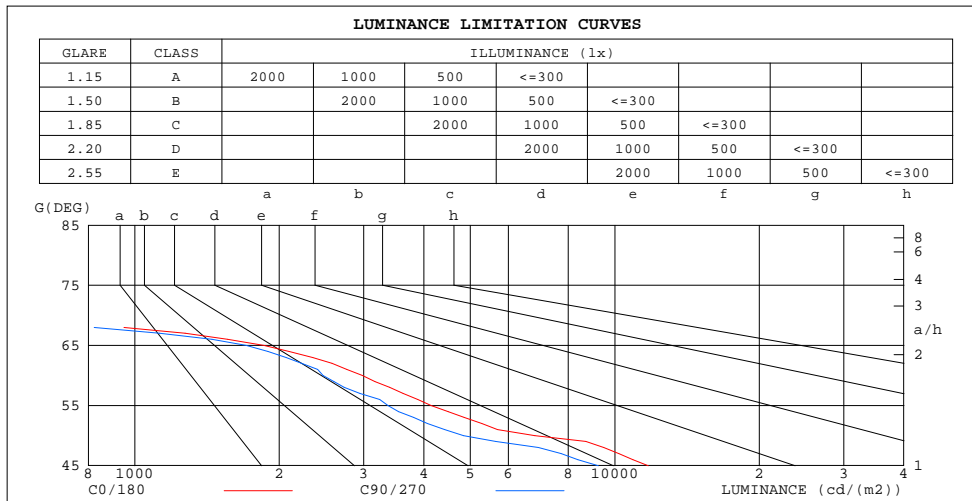
DIM.:

SERIAL No.: 2603170036

MFR.: RISE

SUR.: 0.000283385m2

Shielding Angle:



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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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WEIGHT:

SPEC.: 3000K

DIM.:

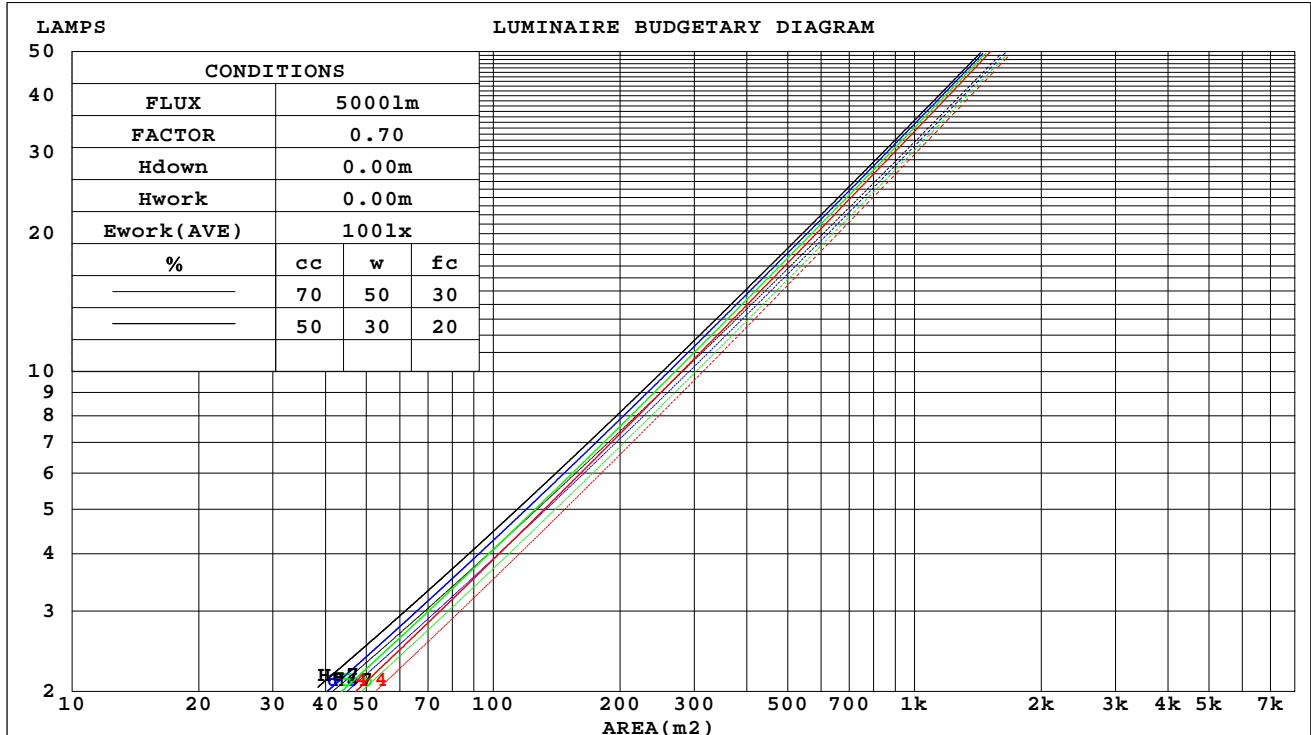
SERIAL No.: 2603170036

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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SPEC.: 3000K	DIM.:	SERIAL No.: 2603170036
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	.125	.071	.023	.120	.068	.022	.110	.063	.020	.100	.058	.019	.091	.053	.017	
2.0	.118	.064	.020	.113	.062	.019	.104	.058	.018	.097	.054	.017	.089	.050	.016	
3.0	.111	.059	.018	.107	.057	.017	.100	.054	.016	.093	.051	.016	.087	.048	.015	
4.0	.105	.054	.016	.101	.053	.016	.095	.051	.015	.090	.048	.015	.084	.046	.014	
5.0	.099	.051	.015	.097	.050	.014	.091	.048	.014	.086	.046	.014	.082	.044	.013	
6.0	.095	.047	.014	.092	.047	.013	.088	.045	.013	.083	.043	.013	.079	.042	.012	
7.0	.090	.045	.013	.088	.044	.013	.084	.043	.012	.080	.041	.012	.077	.040	.012	
8.0	.087	.042	.012	.085	.042	.012	.081	.041	.012	.078	.039	.011	.075	.038	.011	
9.0	.083	.040	.011	.081	.040	.011	.078	.039	.011	.075	.038	.011	.072	.037	.011	
10.0	.080	.038	.011	.078	.038	.011	.076	.037	.010	.073	.036	.010	.070	.035	.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	.159	.159	.159	.136	.136	.136	.093	.093	.093	.053	.053	.053	.017	.017	.017	
1.0	.141	.131	.122	.121	.113	.105	.083	.077	.073	.048	.045	.042	.015	.014	.014	
2.0	.127	.111	.097	.109	.095	.084	.074	.066	.058	.043	.038	.034	.014	.012	.011	
3.0	.115	.094	.078	.099	.081	.068	.068	.057	.047	.039	.033	.028	.013	.011	.009	
4.0	.105	.082	.064	.090	.071	.056	.062	.049	.039	.036	.029	.023	.012	.009	.008	
5.0	.097	.072	.053	.083	.062	.046	.057	.043	.033	.033	.025	.019	.011	.008	.006	
6.0	.090	.064	.045	.078	.055	.039	.054	.039	.027	.031	.023	.016	.010	.007	.005	
7.0	.084	.057	.038	.073	.049	.033	.050	.035	.023	.029	.020	.014	.009	.007	.005	
8.0	.079	.052	.033	.068	.045	.028	.047	.031	.020	.027	.019	.012	.009	.006	.004	
9.0	.075	.047	.028	.065	.041	.025	.045	.029	.018	.026	.017	.010	.008	.006	.003	
10.0	.071	.043	.025	.061	.038	.022	.042	.026	.015	.025	.016	.009	.008	.005	.003	

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30minutes warm-up

UGR(Unified Glare Rating) Table

Test:U:23.997V I:0.1111A P:2.6661W PF:1.0000 Freq:49.99Hz Lamp Flux:251.47x1 lm										
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SPEC.: 3000K					DIM.:			SERIAL No.: 2603170036		
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	18.7	19.4	18.9	19.6	19.8	18.3	19.0	18.5	19.2	19.3
3H	18.5	19.2	18.8	19.4	19.6	18.1	18.8	18.4	19.0	19.2
4H	18.5	19.1	18.7	19.3	19.5	18.0	18.7	18.3	18.9	19.1
6H	18.4	19.0	18.7	19.2	19.5	18.0	18.6	18.2	18.8	19.0
8H	18.3	18.9	18.6	19.2	19.4	17.9	18.5	18.2	18.8	19.0
12H	18.3	18.9	18.6	19.1	19.4	17.9	18.4	18.2	18.7	19.0
4H 2H	18.5	19.1	18.7	19.3	19.6	18.0	18.7	18.3	18.9	19.1
3H	18.3	18.9	18.6	19.1	19.4	17.9	18.5	18.2	18.7	19.0
4H	18.2	18.7	18.5	19.0	19.3	17.8	18.3	18.1	18.6	18.9
6H	18.1	18.6	18.5	18.9	19.2	17.7	18.1	18.1	18.5	18.8
8H	18.1	18.5	18.4	18.8	19.2	17.6	18.1	18.0	18.4	18.8
12H	18.0	18.4	18.4	18.8	19.1	17.6	18.0	18.0	18.3	18.7
8H 4H	18.1	18.5	18.4	18.8	19.2	17.6	18.1	18.0	18.4	18.8
6H	17.9	18.3	18.4	18.7	19.1	17.5	17.9	17.9	18.3	18.7
8H	17.9	18.2	18.3	18.6	19.1	17.5	17.8	17.9	18.2	18.6
12H	17.8	18.1	18.3	18.5	19.0	17.4	17.7	17.9	18.1	18.6
12H 4H	18.0	18.4	18.4	18.8	19.1	17.6	18.0	18.0	18.3	18.7
6H	17.9	18.2	18.3	18.6	19.1	17.5	17.8	17.9	18.2	18.6
8H	17.8	18.1	18.3	18.5	19.0	17.4	17.7	17.9	18.1	18.6
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 4.0 / - 8.3					+ 4.0 / - 8.2				
1.5H	+ 6.0 / - 7.2					+ 6.0 / - 6.8				
2.0H	+ 5.2 / - 5.4					+ 4.8 / - 5.2				

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.: 2603170036
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	71	68	75	71	68	75	70	68	65
0.80	81	77	74	81	77	74	80	76	74	71
1.00	85	80	78	84	80	77	83	80	77	74
1.25	88	84	81	87	83	81	85	82	80	77
1.50	90	86	84	89	85	83	87	84	82	79
2.00	91	88	86	90	87	85	88	86	84	80
2.50	93	90	88	91	89	87	89	87	85	80
3.00	94	91	89	92	90	88	90	88	86	81
4.00	95	93	92	94	92	90	91	89	88	82
5.00	96	95	93	95	93	92	91	90	89	83
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

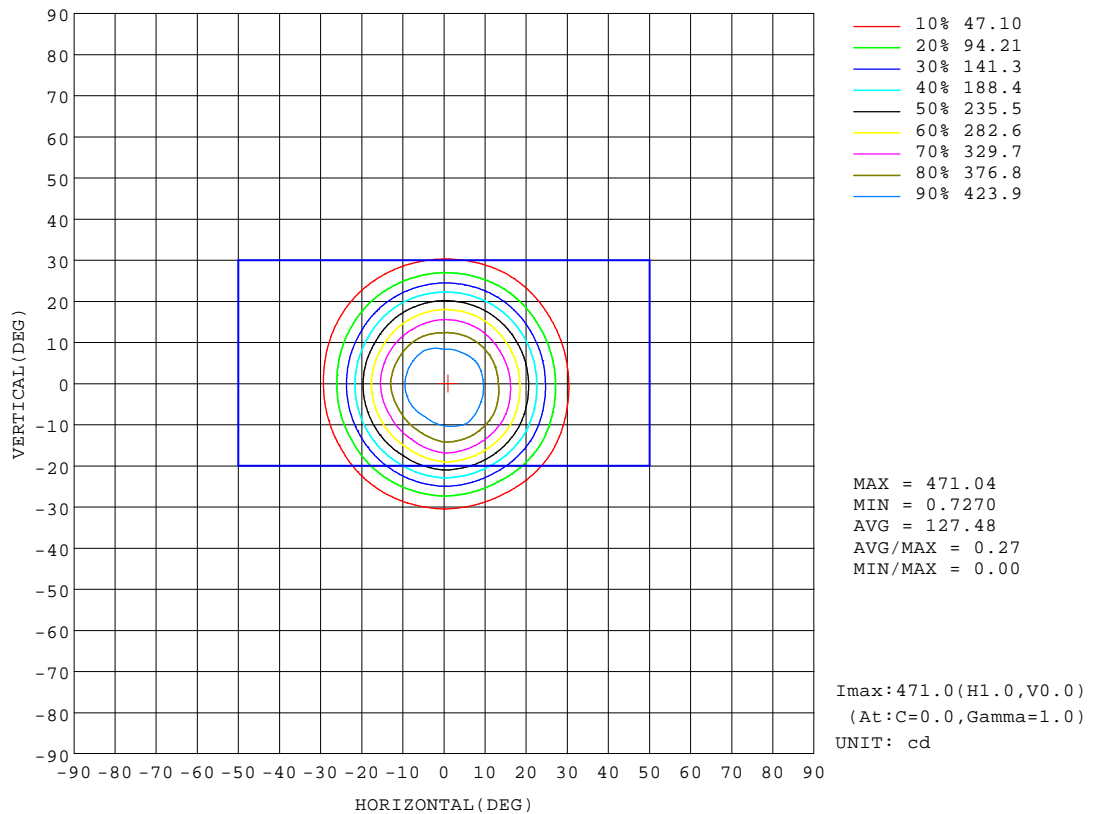
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ISOCANDELA DIAGRAM

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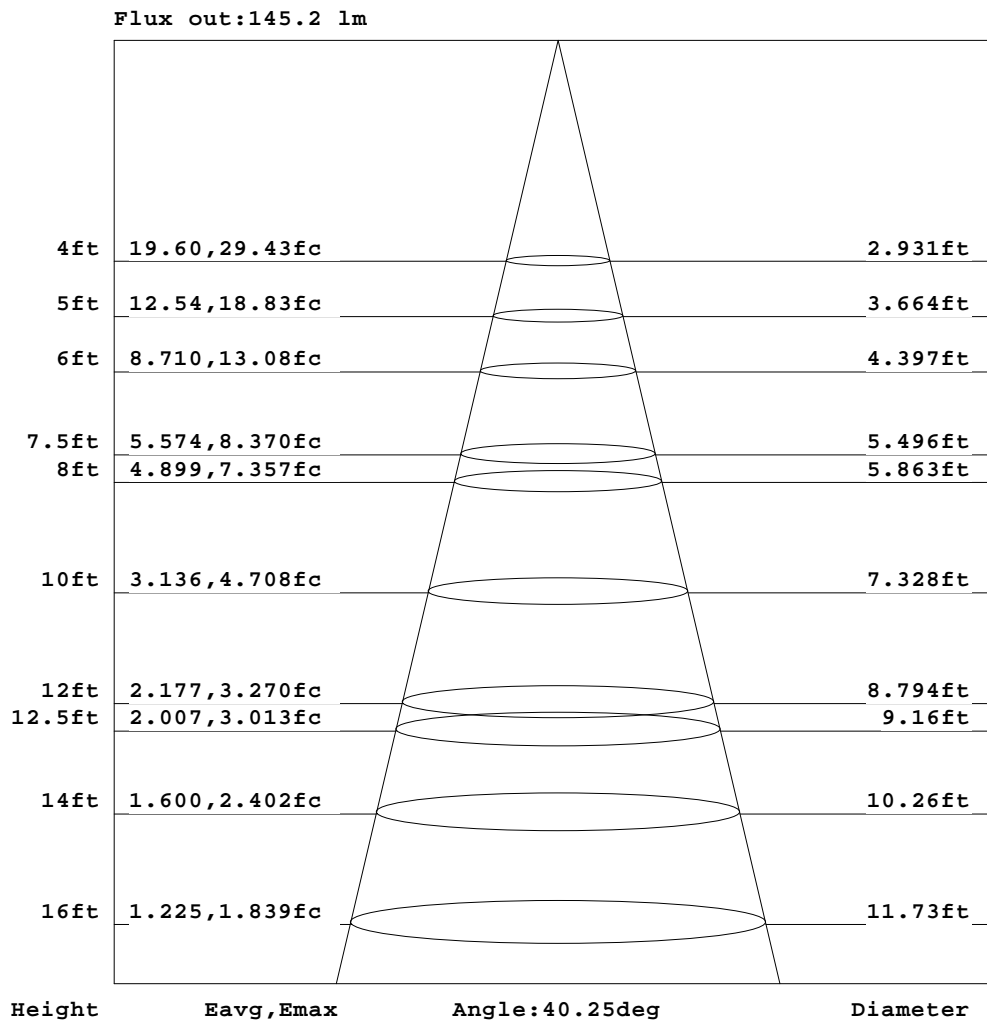
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AAI Figure

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

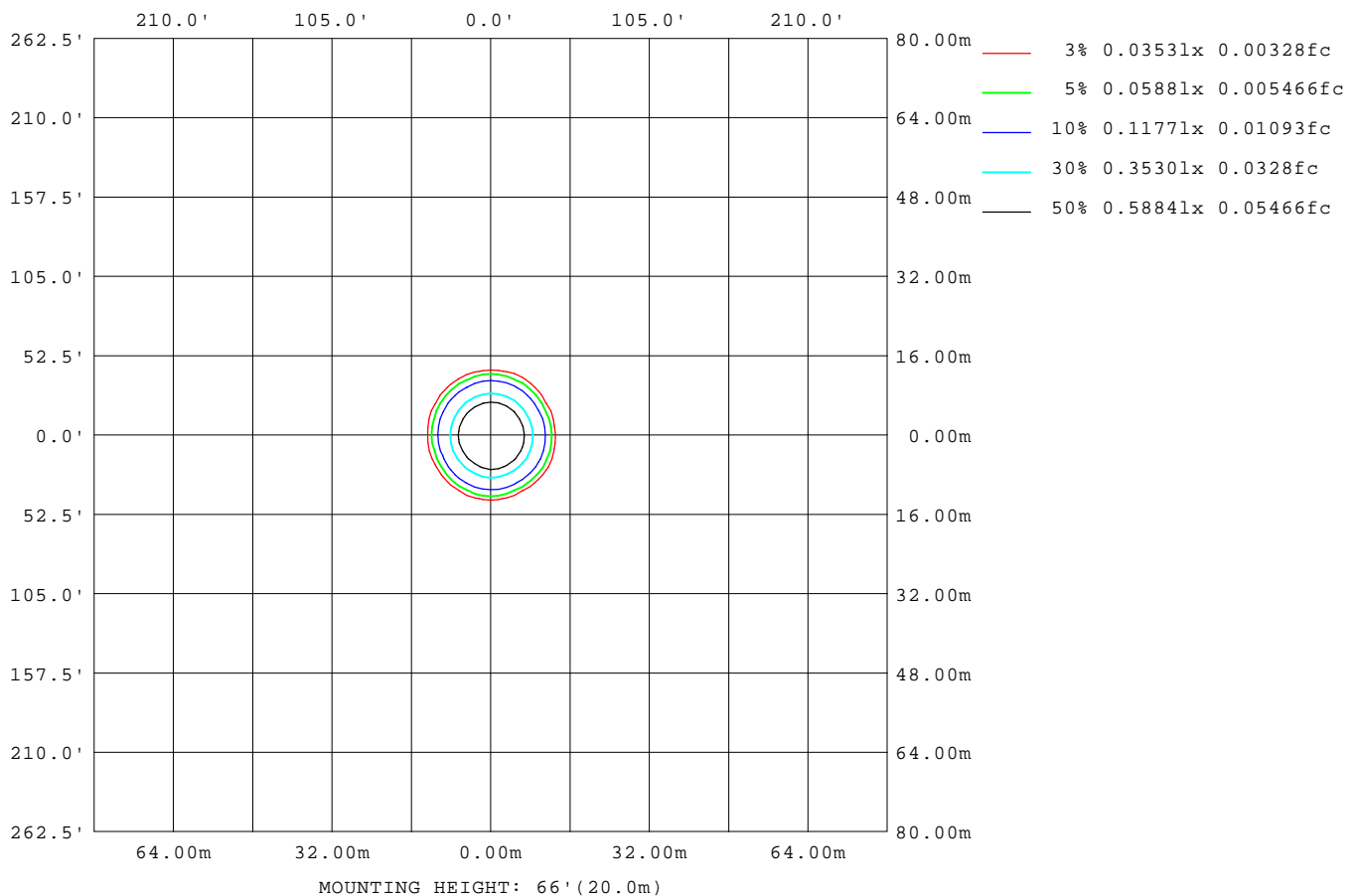
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ISOLUX DIAGRAM

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LED Avg.L Report

Test:U:23.997V I:0.1111A P:2.6661W PF:1.0000 Freq:49.99Hz Lamp Flux:251.47x1 lm		
NAME: 2417.239	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2603170036
MFR.: RISE	SUR.: 0.000283385m2	Shielding Angle:

AvgL	cd/m2
L_0~180(65)av	1768
L_0~180(75)av	0
L_0~180(85)av	0
L_90~270(65)av	1870
L_90~270(75)av	0
L_90~270(85)av	0
L_45(65)av	3113
L_45(75)av	0
L_45(85)av	0

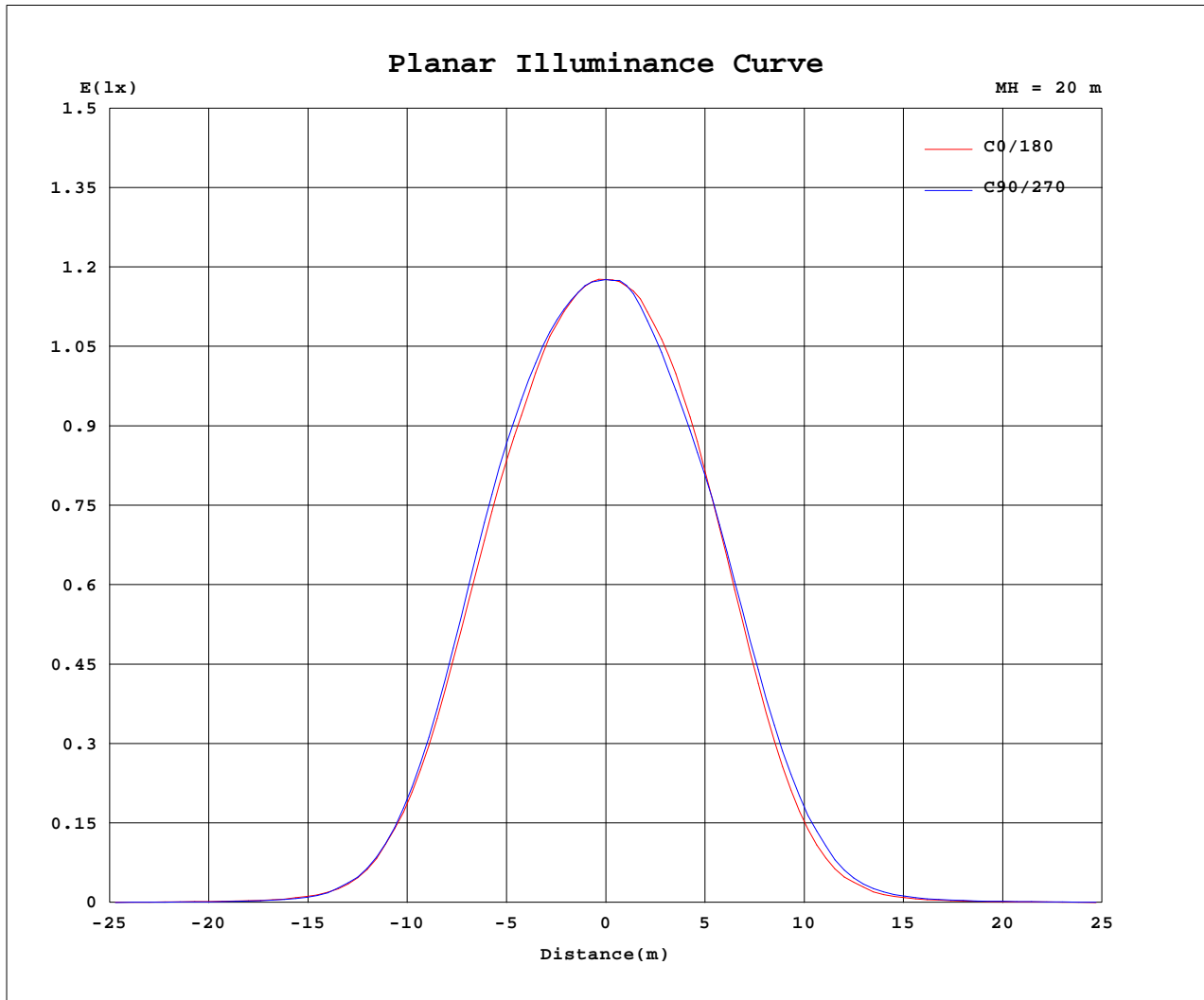
Standard: GB/T 29293-2012

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:CA18105-TINA-Y-W 36R
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: CA18105-TINA-Y-W 36R
 NOT DRIVER: DC 24V

30minutes warm-up



LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:23.997V I:0.1111A P:2.6661W PF:1.0000 Freq:49.99Hz Lamp Flux:251.47x1 lm		
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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	471	471	471	471	471	471	471	471	471	471	471	471						
5	459	464	464	460	461	461	461	460	460	456	456	458						
10	419	425	436	427	417	419	418	415	415	405	410	418						
15	350	363	365	365	342	333	338	335	333	339	342	342						
20	249	258	259	261	237	230	228	222	232	239	241	242						
25	135	143	137	142	129	116	114	115	122	130	132	129						
30	51.1	56.4	50.0	53.1	47.5	39.8	39.4	43.8	46.7	49.9	51.4	47.4						
35	14.2	15.4	12.7	13.5	13.3	11.1	11.2	13.4	13.8	14.6	15.6	13.4						
40	4.78	4.73	3.79	4.15	4.56	4.10	4.10	4.93	4.96	5.14	5.55	5.01						
45	2.35	2.06	2.07	1.85	2.08	2.22	2.15	2.48	2.32	2.62	2.75	2.70						
50	1.24	1.08	0.88	0.88	1.08	1.17	0.98	1.21	1.52	1.28	1.48	1.36						
55	0.67	0.55	0.49	0.55	0.72	0.81	0.61	0.85	1.27	0.80	0.92	0.86						
60	0.42	0.34	0.30	0.35	0.50	0.55	0.38	0.75	0.90	0.49	0.57	0.56						
65	0.22	0.18	0.16	0.20	0.32	0.34	0.20	0.58	0.66	0.24	0.30	0.30						
70	0.04	0.04	0.03	0.04	0.14	0.15	0.05	0.33	0.45	0.05	0.10	0.11						
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						

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