



8165 E Kaiser Blvd. Anaheim, CA 92808  
www.lightlaboratory.com

Report No: L022511804



**Report No:** L022511804

**Issue Date:** 2/25/2025

**Report Prepared For:** Primus Lighting, Inc.  
25072 Anza Drive, Santa Clarita, CA 91355

**Reference:**N/A

**Amendment:**N/A

**Model Number:** RC2 - SL - 35K - M - 4'

**Test:** Photometric/Electrical Test

**Standards Used:** Appropriate part or all test guidelines were used for test performed:

*IES LM79: 2008* Approved Methods for Electrical and Photometric Measurements of Solid-State Lighting Products

*ANSI/IES LM79: 2019* Approved Methods for Optical and Electrical Measurements of Solid-State Lighting Products

*ANSI/NEMA C78.377: 2017* Specification of the Chromaticity of Solid State Lighting Products

*ANSI C82.77-10:2014:* Harmonic Emission Limits-Related Quality Requirements for Lighting Equipment

**Description of Sample:** Client submitted the sample. Received in working and undamaged condition. No modifications were necessary.

**Special Test Condition:** Fixture is tested with no special conditions.

**Date of Tests:** 2/24/25

**Seasoning of Sample:** No seasoning was performed in accordance with IESNA LM-79.

#### Equipment List

Equipment Used	Model No	Stock No	Calibration Due Date
Chroma Programmable AC Source	61604	PS-AC02	--
Yokogawa Digital Power Meter	WT210	MT-EL06-S3	6/21/26
HP Power Supply	6032A	PS-DC05-S2	--
Fluke Digital Thermometer	52K/J	MT-TP05	6/25/26
LLI Type C Goniophotometer System	RMG-C-MKII	CD-LL04-GC	--
LLI 2M Sphere	2MR97	CD-SN03-S2	--
LLI Spectroradiometer	SPR-3000	MT-SC01-S2	Before Use

### General Information

<b>Manufacturer:</b>	Primus Lighting, Inc.
<b>Model Number:</b>	RC2 - SL - 35K - M - 4'
<b>Driver Model Number:</b>	XC1050C140V048BPT1

### Photometric & Electrical Test Results

<b>Total Lumens:</b>	2874.00
<b>Efficacy:</b>	96.46
<b>Input Voltage (VAC/60Hz):</b>	120.01
<b>Input Current (Amp):</b>	0.2501
<b>Input Power (W):</b>	29.80
<b>Input Power Factor:</b>	0.9927
<b>Current ATHD (%):</b>	8.9%

### Test Condition

<b>Ambient Temperature (°C):</b>	25.0
<b>Stabilization Time (Hours):</b>	0:40
<b>Total Operating Time (Hours):</b>	1:10

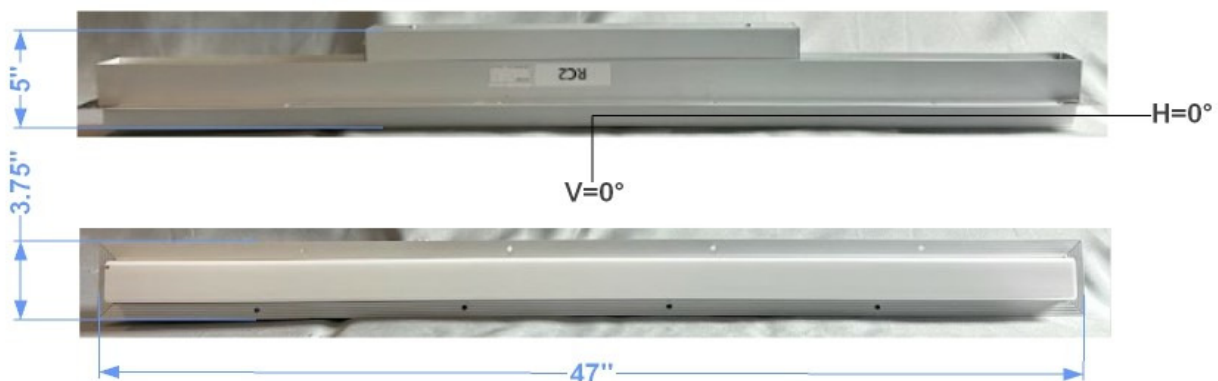


FIG. 1 LUMINAIRE



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## Test Methods

### Photometric Measurements - Goniophotometer

A Custom Light Laboratory Type C Rotating Mirror Goniophotometer was used to measure candelas(intensity) at each angle of distribution as defined by IESNA for the appropriate fixture type.

Ambient temperature is set to 25°C and is measured from the center of the fixture, within 1ft from the outside of the fixture. Temperature is maintained at 25°C throughout the testing process and the sample is stabilized for at least 30mins and longer as necessary for the sample to achieve stabilization.

Electrical measurements are measured using the listed equipment.

### Spectral Measurements - Integrating Sphere

A Sensing Spectroradiometer SPR-3000, in conjunction with Light Laboratory 2 meter integrating sphere was used to measure chromaticity coordinates, correlated color temperature(CCT) and the color rendering index(CRI) for each sample.

Ambient temperature is set to 25°C and is measured from the center of the fixture, within 1ft from the outside of the fixture. Temperature is maintained at 25°C throughout the testing process and the sample is stabilized for at least 30mins and longer as necessary for the sample to achieve stabilization.

Electrical measurements are measured using the listed equipment.

### Disclaimers:

The results related only to the samples as received and tested. This report must not be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST or any agency of the Federal Government.

Report Prepared by :                     JG                    

Test Report Reviewed by:

Steve Kang  
Quality Assurance

*\*Attached are photometric data reports.*



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## Photometric Test Report

### IES INDOOR REPORT

PHOTOMETRIC FILENAME : L022511804.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022511804

[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)

[ISSUE DATE] 2/25/2025

[MANUFAC] Primus Lighting, Inc.

[LUMCAT] RC2 - SL - 35K - M - 4'

[LUMINAIRE] RECESSED 2" SQUARE LENS 3500K 90CRI MEDIUM LUMEN 4'

[BALLASTCAT] XC1050C140V048BPT1

[OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND

[MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.

[INPUT] 120VAC

[TEST PROCEDURE] IESNA:LM-79-19

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2874
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
Total Luminaire Watts	29.8
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.50
Spacing Criterion (Diagonal)	1.54
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.75 ft
Luminous Width (90-270)	0.17 ft
Luminous Height	0.04 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9489	10201	10911
55	9154	10342	11381
65	8585	10728	12071
75	7584	11580	13291
85	5865	14057	16158

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : L022511804.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
0	608	608	608	608	608	608	608	608	608
5	604	607	611	613	615	615	610	607	605
10	596	604	614	620	623	621	614	602	598
15	583	597	610	623	626	622	611	594	585
20	563	584	602	620	626	619	604	580	566
25	539	566	590	614	621	612	592	560	544
30	511	543	574	604	612	600	576	538	515
35	478	516	553	590	599	585	556	510	482
40	441	487	528	572	583	565	533	478	448
45	402	452	502	551	565	545	506	444	408
50	359	414	471	528	543	521	474	405	364
55	316	376	439	502	517	493	444	364	321
60	267	333	406	472	489	462	410	324	273
65	220	289	369	437	455	428	373	282	223
70	170	248	332	403	420	391	336	238	177
75	121	206	293	365	383	352	297	197	128
80	78	165	255	327	344	319	258	159	85
85	34	129	217	290	308	280	221	120	41
90	0	92	183	253	274	247	184	87	0
95	0	79	171	238	260	235	171	73	0
100	0	56	148	220	240	213	151	50	0
105	0	36	123	194	213	185	125	30	0
110	0	18	96	165	182	155	99	13	0
115	0	0	70	133	150	124	75	0	0
120	0	0	45	102	117	93	47	0	0
125	0	0	23	76	86	65	25	0	0
130	0	0	5	45	57	38	5	0	0
135	0	0	0	20	29	13	0	0	0
140	0	0	0	0	7	0	0	0	0
145	0	0	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0	0

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : L022511804.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	230.25	N.A.	8.00
0-30	501.17	N.A.	17.40
0-40	844.83	N.A.	29.40
0-60	1614.03	N.A.	56.20
0-80	2261.26	N.A.	78.70
0-90	2480.54	N.A.	86.30
10-90	2422.25	N.A.	84.30
20-40	614.58	N.A.	21.40
20-50	997.62	N.A.	34.70
40-70	1122.94	N.A.	39.10
60-80	647.23	N.A.	22.50
70-80	293.49	N.A.	10.20
80-90	219.28	N.A.	7.60
90-110	285.21	N.A.	9.90
90-120	354.77	N.A.	12.30
90-130	385.94	N.A.	13.40
90-150	393.04	N.A.	13.70
90-180	393.04	N.A.	13.70
110-180	107.83	N.A.	3.80
0-180	2873.58	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	58.29
10-20	171.97
20-30	270.92
30-40	343.65
40-50	383.04
50-60	386.16
60-70	353.74
70-80	293.49
80-90	219.28
90-100	165.46
100-110	119.75
110-120	69.56
120-130	31.17
130-140	6.95
140-150	0.15
150-160	0.00
160-170	0.00
170-180	0.00

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : L022511804.IES**

**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	116	116	116	116	111	111	111	111	103	103	103	96	96	96	89	89	89	86
1	102	96	91	86	98	93	88	83	86	82	78	79	76	73	74	71	69	65
2	92	82	74	67	88	79	72	65	73	67	62	68	63	58	63	59	55	52
3	83	71	62	55	79	68	60	53	63	56	50	59	53	48	54	49	45	42
4	75	62	53	45	72	60	51	44	56	48	42	52	45	40	48	43	38	35
5	69	55	46	38	66	53	44	38	49	42	36	46	39	34	43	37	33	30
6	64	49	40	33	61	48	39	32	44	37	31	41	35	30	39	33	28	26
7	59	45	35	29	56	43	34	28	40	33	27	38	31	26	35	29	25	23
8	55	40	32	25	52	39	31	25	37	29	24	34	28	23	32	26	22	20
9	51	37	28	23	49	36	28	22	34	26	21	32	25	21	30	24	20	18
10	48	34	26	20	46	33	25	20	31	24	19	29	23	19	27	22	18	16

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**UGR TABLE - CORRECTED**

Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

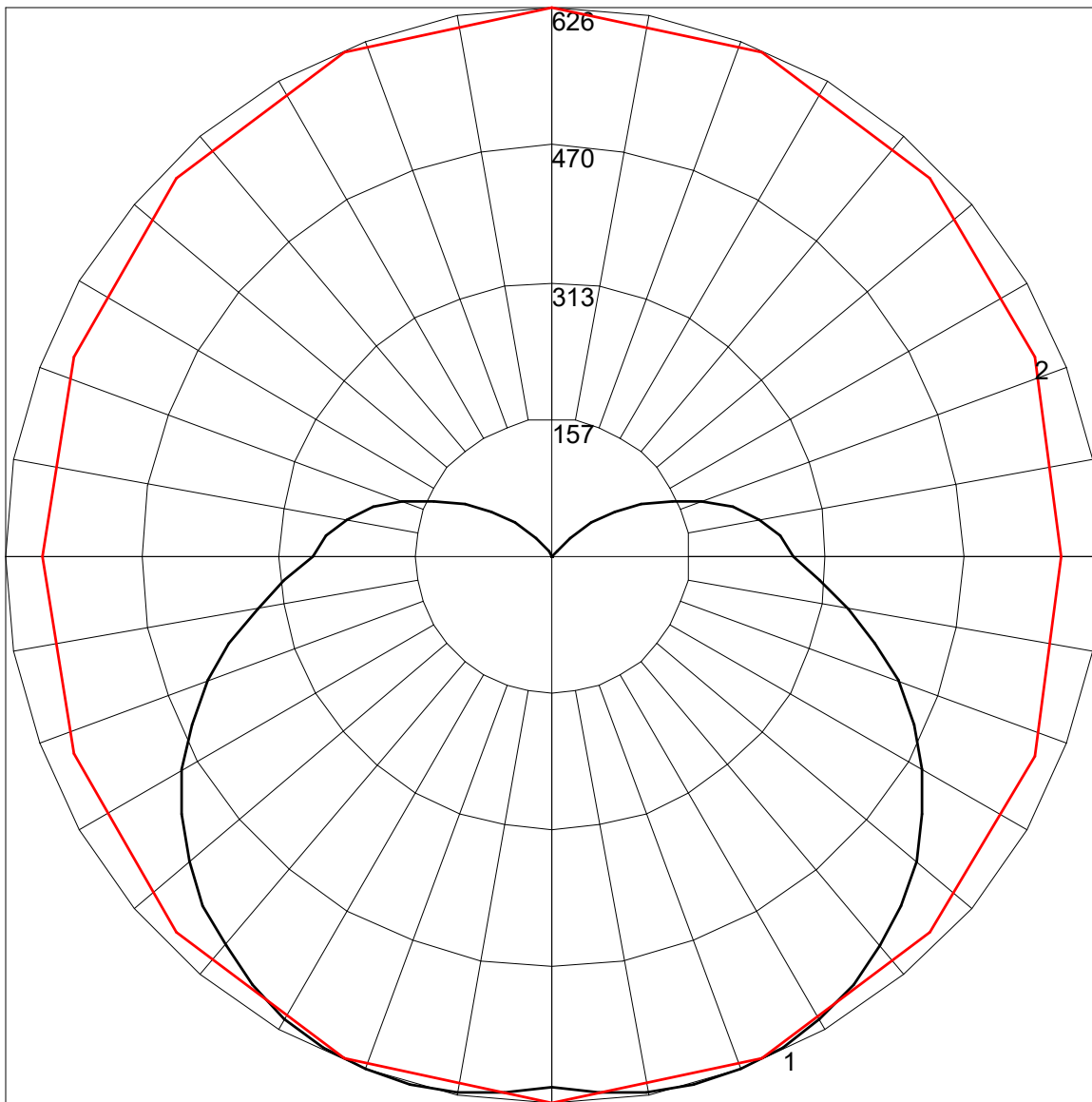
Room Size      UGR Viewed Crosswise

X=2H	Y=2H	17.7	19.1	18.2	19.7	20.4	UGR Viewed Endwise					
	3H	19.4	20.7	19.9	21.3	22.0	20.8	22.2	21.3	22.8	23.4	
	4H	20.0	21.2	20.5	21.8	22.5	23.7	25.0	24.2	25.6	26.3	
	6H	20.4	21.6	21.0	22.2	22.9	25.1	26.4	25.7	27.0	27.7	
	8H	20.5	21.6	21.1	22.3	23.0	26.7	27.9	27.3	28.5	29.2	
	12H	20.6	21.7	21.2	22.3	23.0	27.5	28.7	28.2	29.3	30.0	
							28.5	29.6	29.1	30.2	30.9	
4H	2H	19.0	20.2	19.6	20.8	21.5	21.2	22.5	21.8	23.1	23.8	
	3H	21.0	22.1	21.6	22.7	23.4	24.4	25.5	25.0	26.1	26.8	
	4H	21.7	22.8	22.4	23.4	24.1	26.1	27.1	26.7	27.7	28.5	
	6H	22.3	23.2	23.0	23.9	24.7	27.8	28.7	28.5	29.4	30.2	
	8H	22.5	23.4	23.2	24.0	24.8	28.8	29.6	29.4	30.3	31.1	
	12H	22.7	23.4	23.3	24.1	24.9	29.9	30.6	30.5	31.3	32.1	
8H	4H	22.8	23.7	23.5	24.4	25.1	26.3	27.2	27.0	27.9	28.6	
	6H	23.7	24.5	24.4	25.2	25.9	28.3	29.1	29.0	29.8	30.5	
	8H	24.1	24.7	24.8	25.4	26.2	29.5	30.1	30.2	30.8	31.6	
	12H	24.3	24.9	25.0	25.6	26.5	30.7	31.3	31.4	32.0	32.9	
12H	4H	23.2	24.0	23.9	24.7	25.4	26.4	27.1	27.1	27.8	28.6	
	6H	24.2	24.9	24.9	25.6	26.4	28.4	29.1	29.1	29.8	30.6	
	8H	24.7	25.3	25.4	26.0	26.8	29.6	30.2	30.3	30.9	31.7	

Maximum UGR = 32.9



POLAR GRAPH



Maximum Candela = 626 Located At Horizontal Angle = 90, Vertical Angle = 15  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)  
# 2 - Horizontal Cone Through Vertical Angle (15) (Through Max. Cd.)