



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

Report No: L022511803



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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 - RL - 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

Manufacturer:	Primus Lighting, Inc.
Model Number:	RC2 - RL - 35K - M - 4'
Driver Model Number:	XC1050C140V048BPT1

Photometric & Electrical Test Results

Total Lumens:	2824.00
Efficacy:	94.69
Input Voltage (VAC/60Hz):	120.01
Input Current (Amp):	0.2503
Input Power (W):	29.82
Input Power Factor:	0.9927
Current ATHD (%):	8.9%

Test Condition

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

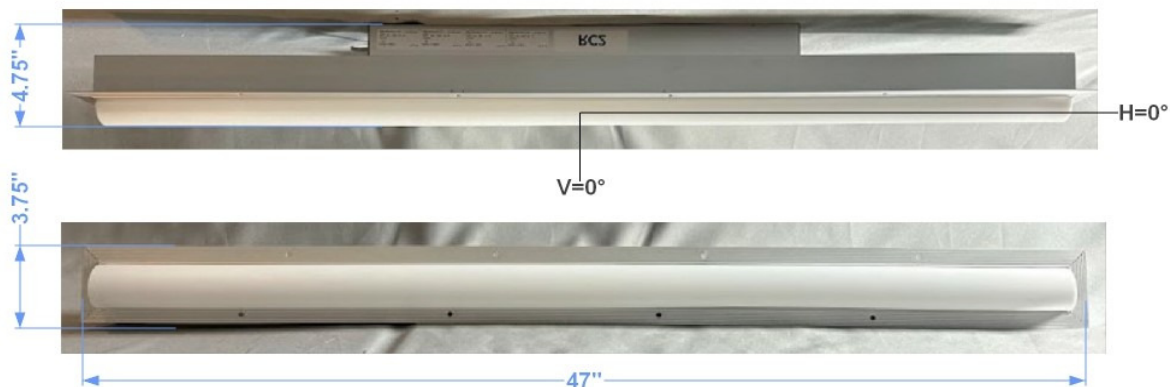


FIG. 1 LUMINAIRE



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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 : L022511803.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L022511803
[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
[ISSUE DATE] 2/25/2025
[MANUFAC] Primus Lighting, Inc.
[LUMCAT] RC2 - RL - 35K - M - 4'
[LUMINAIRE] RECESSED 2" ROUND 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	2824
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	95
Total Luminaire Watts	29.82
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.40
Spacing Criterion (Diagonal)	1.48
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	10693	10262	10602
55	10487	10130	10984
65	10185	10466	11726
75	9841	11541	13256
85	9488	14640	16787

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L022511803.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	658	658	658	658	658	658	658	658	658
5	654	656	656	657	657	657	656	654	656
10	646	650	650	654	654	652	651	646	648
15	631	636	639	647	647	644	640	632	633
20	610	619	623	637	639	633	626	612	614
25	596	601	606	624	627	619	608	589	588
30	564	577	584	607	612	601	586	560	558
35	531	547	566	588	593	581	561	535	533
40	489	510	538	565	573	558	533	500	495
45	453	473	505	540	549	531	502	466	460
50	407	438	466	513	524	505	469	421	413
55	362	387	430	484	499	476	436	380	367
60	312	348	395	456	471	446	402	332	317
65	261	298	360	425	442	417	363	287	266
70	206	251	326	394	412	385	328	240	210
75	157	206	292	364	382	352	295	196	162
80	106	168	259	332	347	324	261	159	112
85	55	135	226	300	320	292	228	126	73
90	9	105	195	269	288	260	198	96	6
95	0	85	166	238	258	230	168	66	0
100	0	40	126	201	219	189	130	31	0
105	0	13	85	159	175	145	90	6	0
110	0	7	48	114	129	101	51	5	0
115	0	6	15	86	84	60	17	0	0
120	0	5	3	33	45	22	0	0	0
125	0	0	0	0	10	0	0	0	0
130	0	0	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	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
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	243.21	N.A.	8.60
0-30	523.70	N.A.	18.50
0-40	875.82	N.A.	31.00
0-60	1651.01	N.A.	58.50
0-80	2302.02	N.A.	81.50
0-90	2532.42	N.A.	89.70
10-90	2469.97	N.A.	87.50
20-40	632.61	N.A.	22.40
20-50	1020.74	N.A.	36.10
40-70	1129.02	N.A.	40.00
60-80	651.01	N.A.	23.10
70-80	297.18	N.A.	10.50
80-90	230.40	N.A.	8.20
90-110	253.59	N.A.	9.00
90-120	287.90	N.A.	10.20
90-130	291.58	N.A.	10.30
90-150	291.58	N.A.	10.30
90-180	291.58	N.A.	10.30
110-180	37.99	N.A.	1.30
0-180	2824.00	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	62.45
10-20	180.76
20-30	280.49
30-40	352.12
40-50	388.12
50-60	387.06
60-70	353.83
70-80	297.18
80-90	230.40
90-100	162.92
100-110	90.67
110-120	34.31
120-130	3.68
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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	117	117	117	117	113	113	113	113	105	105	105	99	99	99	93	93	93	90
1	103	97	91	86	99	93	88	84	87	83	79	81	78	75	76	73	71	68
2	92	83	74	68	89	80	72	66	74	68	63	69	64	60	65	61	57	54
3	83	71	62	55	80	69	61	54	64	57	51	60	54	49	56	51	47	44
4	76	63	53	46	73	61	52	45	57	49	43	53	47	41	50	44	40	37
5	70	56	46	39	67	54	45	38	50	43	37	47	41	35	44	39	34	31
6	64	50	40	33	61	48	39	33	45	38	32	43	36	31	40	34	29	27
7	59	45	36	29	57	44	35	29	41	33	28	39	32	27	36	31	26	24
8	55	41	32	26	53	40	31	25	37	30	25	35	29	24	33	28	23	21
9	51	37	29	23	49	36	28	23	34	27	22	33	26	21	31	25	21	19
10	48	34	26	21	46	33	26	20	32	25	20	30	24	19	29	23	19	17

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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	18.2	19.7	18.7	20.2	20.8	20.6	22.2	21.1	22.7	23.2
	3H	20.0	21.4	20.5	21.9	22.5	23.6	25.0	24.1	25.5	26.1
	4H	20.7	22.0	21.2	22.5	23.1	25.1	26.5	25.7	27.0	27.6
	6H	21.2	22.4	21.7	23.0	23.6	26.8	28.0	27.3	28.6	29.2
	8H	21.4	22.6	21.9	23.1	23.8	27.7	28.9	28.2	29.4	30.1
	12H	21.5	22.6	22.0	23.2	23.9	28.7	29.8	29.2	30.4	31.0

UGR Viewed Endwise

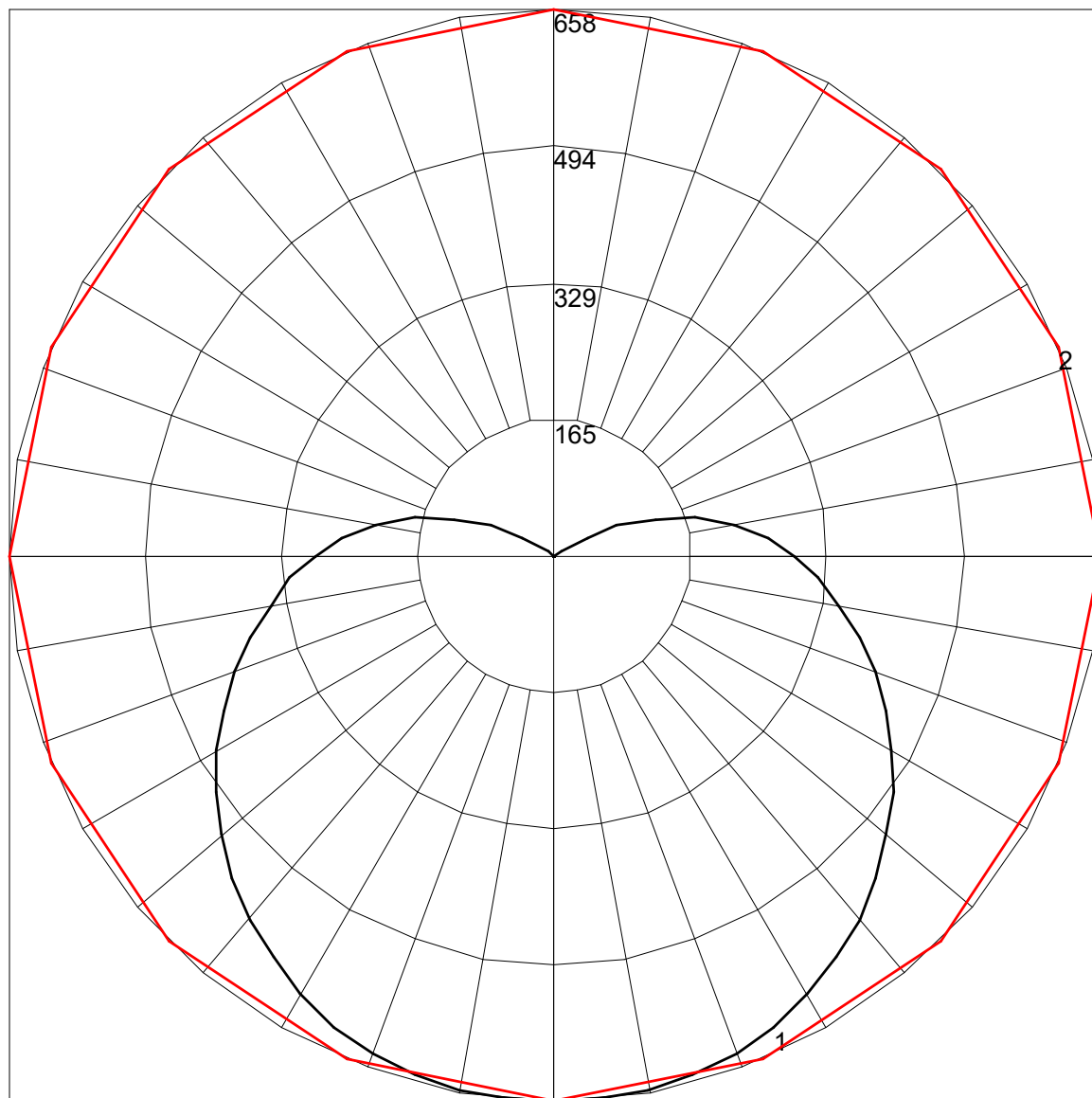
4H	2H	19.3	20.7	19.8	21.2	21.8	21.1	22.5	21.7	23.0	23.6
	3H	21.4	22.5	21.9	23.1	23.7	24.4	25.5	24.9	26.1	26.7
	4H	22.2	23.3	22.8	23.8	24.5	26.1	27.2	26.7	27.7	28.4
	6H	22.9	23.8	23.5	24.4	25.1	28.0	28.9	28.5	29.5	30.2
	8H	23.1	24.0	23.7	24.6	25.3	29.0	29.9	29.5	30.5	31.1
	12H	23.3	24.1	23.9	24.8	25.4	30.1	30.9	30.7	31.5	32.2

8H	4H	23.2	24.1	23.8	24.7	25.4	26.4	27.3	27.0	27.9	28.6
	6H	24.2	24.9	24.8	25.6	26.3	28.5	29.2	29.1	29.9	30.6
	8H	24.5	25.2	25.2	25.9	26.6	29.6	30.3	30.3	31.0	31.7
	12H	24.8	25.5	25.5	26.1	26.9	31.0	31.6	31.6	32.3	33.0

12H	4H	23.6	24.4	24.2	25.0	25.7	26.4	27.3	27.0	27.9	28.6
	6H	24.6	25.4	25.3	26.0	26.7	28.5	29.3	29.2	29.9	30.6
	8H	25.1	25.8	25.8	26.4	27.2	29.8	30.4	30.4	31.1	31.8

Maximum UGR = 33.0

POLAR GRAPH



Maximum Candela = 658 Located At Horizontal Angle = 0, Vertical Angle = 0

1 - Vertical Plane Through Horizontal Angles (90 - 270)

2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)