



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

Report No: L022511501



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Issue Date: 2/20/2025

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

Reference: N/A

Amendment: N/A

Model Number: CV2 - 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: 2/19/25

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:	CV2 - 35K - M - 4'
Driver Model Number:	XC1050C140V048BPT1

Photometric & Electrical Test Results

Total Lumens:	3069.00
Efficacy:	104.16
Input Voltage (VAC/60Hz):	120.05
Input Current (Amp):	0.2471
Input Power (W):	29.46
Input Power Factor:	0.9931
Current ATHD (%):	8.3%

Test Condition

Ambient Temperature (°C):	25.0
Stabilization Time (Hours):	0:35
Total Operating Time (Hours):	1:05

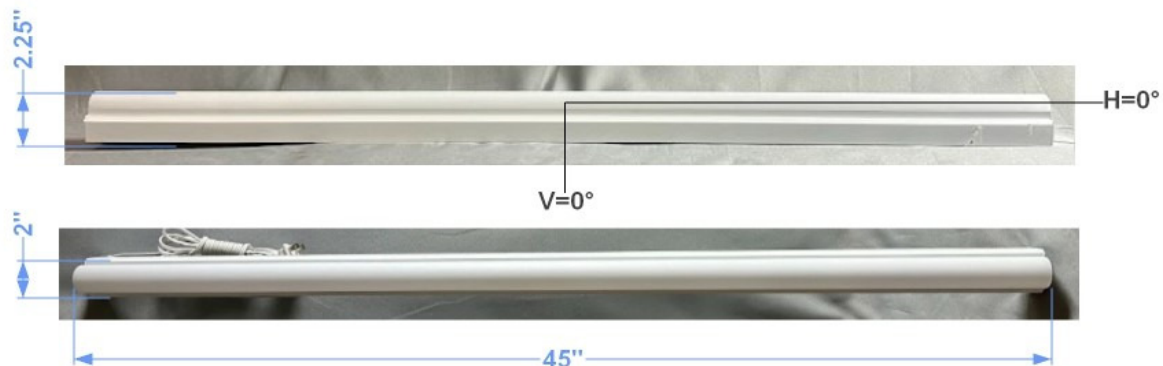


FIG. 1 LUMINAIRE

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 : L022511501.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L022511501
[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
[ISSUE DATE] 2/19/2025
[MANUFAC] Primus Lighting, Inc.
[LUMCAT] CV2 - 35K - M - 4'
[LUMINAIRE] COVE 2 3500K (90CRI) MEDIUM LUMEN 4' LONG
[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	3069
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	29.46
Ballast Factor	1.00
CIE Type	Semi-Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.75 ft
Luminous Width (90-270)	0.13 ft
Luminous Height	0.08 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	710	425
55	0	398	2333
65	0	2310	3555
75	0	3943	5429
85	0	7083	8412

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L022511501.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	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0
20	0	0	0	3	3	3	0	0	0
25	0	0	0	11	13	3	0	0	0
30	0	0	3	24	29	20	3	0	0
35	0	0	15	37	43	34	16	0	0
40	0	0	25	48	55	46	27	0	0
45	0	3	33	30	22	47	35	3	0
50	0	9	42	30	58	22	44	7	0
55	0	16	17	100	114	93	19	15	0
60	0	20	46	120	135	114	59	20	0
65	0	25	87	142	158	136	88	25	0
70	0	17	106	165	183	157	107	18	0
75	0	46	124	191	210	183	126	41	0
80	0	61	147	218	237	209	148	57	0
85	0	85	172	246	267	239	173	73	3
90	3	104	199	277	298	267	201	95	3
95	47	135	230	307	329	299	232	124	49
100	97	170	263	339	359	331	264	161	98
105	147	212	297	371	391	361	300	200	151
110	203	259	332	404	422	394	338	246	208
115	258	304	372	437	454	428	375	295	263
120	312	353	410	471	486	461	415	334	321
125	367	402	448	504	516	493	454	386	374
130	417	448	487	534	545	525	490	435	421
135	472	490	522	563	573	555	526	481	473
140	510	532	555	591	598	582	560	520	517
145	552	568	586	615	620	608	590	560	556
150	588	602	614	637	640	630	618	594	594
155	621	631	638	656	657	650	642	624	626
160	647	655	659	670	671	666	661	649	651
165	669	675	676	683	683	680	678	670	672
170	685	688	688	692	691	689	689	685	687
175	694	696	695	697	697	696	696	694	696
180	698	698	698	698	698	698	698	698	698

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L022511501.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	0.09	N.A.	0.00
0-30	2.24	N.A.	0.10
0-40	13.58	N.A.	0.40
0-60	73.55	N.A.	2.40
0-80	275.53	N.A.	9.00
0-90	447.21	N.A.	14.60
10-90	447.21	N.A.	14.60
20-40	13.49	N.A.	0.40
20-50	31.87	N.A.	1.00
40-70	140.42	N.A.	4.60
60-80	201.98	N.A.	6.60
70-80	121.52	N.A.	4.00
80-90	171.69	N.A.	5.60
90-110	535.18	N.A.	17.40
90-120	897.64	N.A.	29.20
90-130	1297.35	N.A.	42.30
90-150	2068.99	N.A.	67.40
90-180	2621.65	N.A.	85.40
110-180	2086.47	N.A.	68.00
0-180	3068.87	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	0.00
10-20	0.09
20-30	2.15
30-40	11.34
40-50	18.38
50-60	41.58
60-70	80.46
70-80	121.52
80-90	171.69
90-100	233.03
100-110	302.16
110-120	362.46
120-130	399.71
130-140	403.55
140-150	368.08
150-160	295.31
160-170	191.18
170-180	66.18

IES INDOOR REPORT
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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	99	99	99	99	86	86	86	86	64	64	64	43	43	43	24	24	24	15
1	87	82	77	73	76	71	67	64	52	49	46	33	32	30	17	15	14	7
2	78	70	63	58	68	61	55	51	44	40	37	28	25	23	13	12	10	4
3	71	61	53	47	61	53	46	41	38	33	30	24	21	19	11	9	8	2
4	65	53	45	39	56	46	40	34	33	28	25	21	18	15	10	8	6	2
5	59	47	39	33	51	41	34	29	29	25	21	19	15	13	8	7	5	1
6	54	42	34	28	47	36	30	25	26	21	18	17	13	11	8	6	4	1
7	50	38	30	24	43	33	26	21	23	19	15	15	12	9	7	5	4	1
8	46	34	26	21	40	29	23	18	21	17	13	13	10	8	6	5	3	0
9	43	31	23	18	37	27	20	16	19	15	12	12	9	7	6	4	3	0
10	40	28	21	16	34	24	18	14	18	13	10	11	8	6	5	4	2	0

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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	3.9	3.9	3.9	3.9	3.9	9.0	9.7	10.2	10.9	12.5
	3H	3.9	3.9	3.9	3.9	3.9	14.5	15.2	15.7	16.3	18.0
	4H	3.9	3.9	3.9	3.9	3.9	17.4	18.0	18.6	19.1	20.9
	6H	3.9	3.9	3.9	3.9	3.9	20.4	20.9	21.6	22.1	23.8
	8H	3.9	3.9	3.9	3.9	3.9	21.9	22.5	23.1	23.7	25.4
	12H	3.9	3.9	3.9	3.9	3.9	23.7	24.2	24.9	25.4	27.1

UGR Viewed Endwise

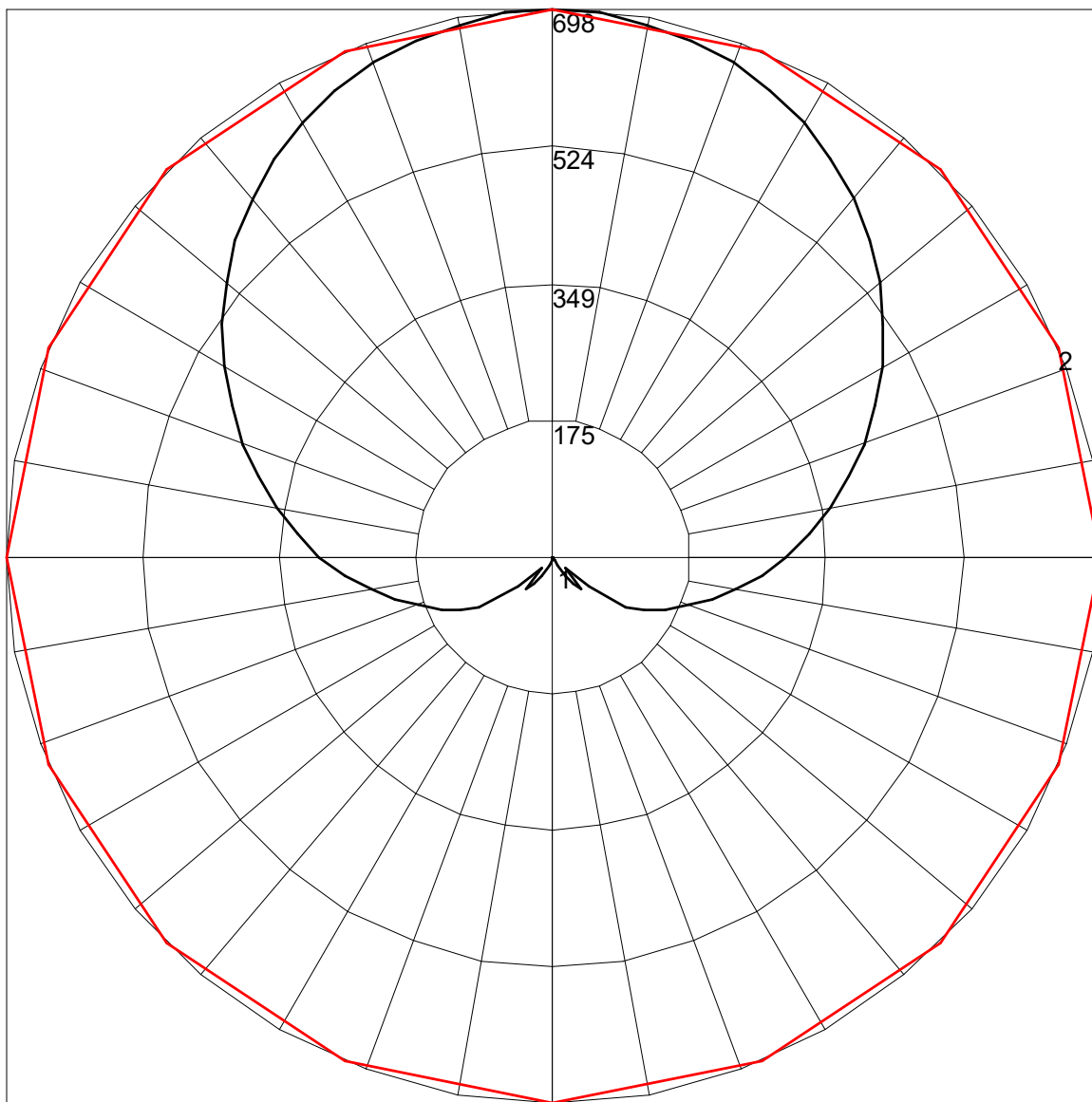
4H	2H	3.9	3.9	4.4	4.9	6.6	9.3	9.9	10.5	11.1	12.8
	3H	5.0	5.5	6.2	6.7	8.4	15.1	15.6	16.3	16.8	18.6
	4H	6.1	6.6	7.3	7.8	9.5	18.2	18.7	19.4	19.9	21.6
	6H	7.2	7.6	8.4	8.8	10.5	21.4	21.8	22.6	23.0	24.7
	8H	7.7	8.1	8.9	9.3	11.0	23.1	23.5	24.3	24.7	26.4
	12H	8.0	8.4	9.2	9.6	11.3	24.9	25.3	26.1	26.5	28.2

8H	4H	11.2	11.6	12.4	12.8	14.6	18.4	18.8	19.6	20.0	21.7
	6H	12.5	12.9	13.8	14.1	15.9	21.8	22.1	23.0	23.4	25.1
	8H	13.1	13.4	14.4	14.6	16.4	23.7	24.0	24.9	25.2	26.9
	12H	13.6	13.9	14.8	15.1	16.9	25.7	26.0	26.9	27.2	29.0

12H	4H	12.7	13.1	14.0	14.3	16.0	18.4	18.7	19.6	20.0	21.7
	6H	14.3	14.6	15.6	15.9	17.6	21.9	22.1	23.1	23.4	25.1
	8H	15.1	15.4	16.4	16.6	18.4	23.8	24.0	25.0	25.3	27.0

Maximum UGR = 29.0

POLAR GRAPH



Maximum Candela = 698 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (180) (Through Max. Cd.)