



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

Report No: L022511601



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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: CV5-FL - 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:	CV5-FL - 35K - M - 4'
Driver Model Number:	XC1050C140V048BPT1

Photometric & Electrical Test Results

Total Lumens:	2165.00
Efficacy:	73.11
Input Voltage (VAC/60Hz):	120.02
Input Current (Amp):	0.2484
Input Power (W):	29.61
Input Power Factor:	0.9931
Current ATHD (%):	7.8%

Test Condition

Ambient Temperature (°C):	25.0
Stabilization Time (Hours):	0:30
Total Operating Time (Hours):	1:05

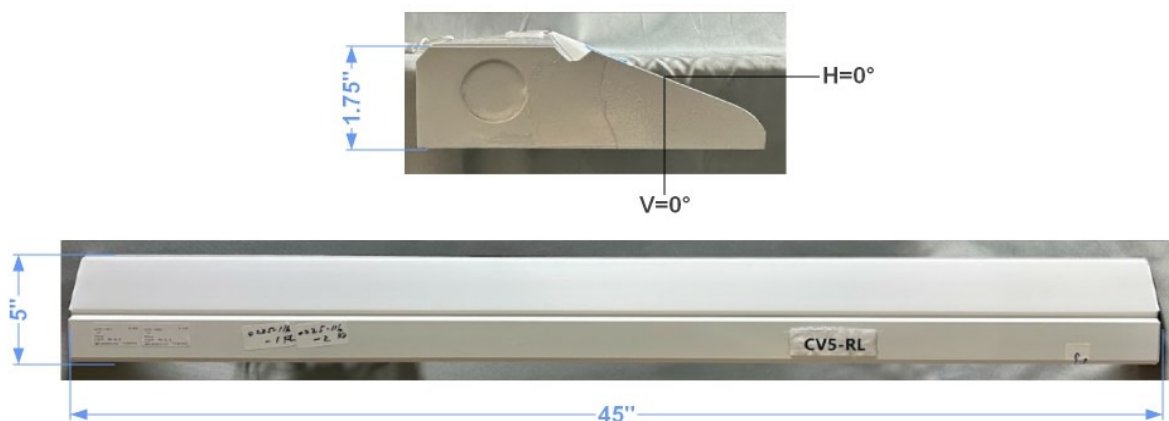


FIG. 1 LUMINAIRE

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.

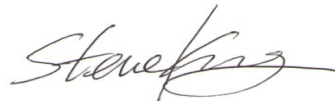
Electrical measurements are measured using the listed equipment.

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 : L022511601.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022511601

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

[ISSUEDATE] 2/19/2025

[MANUFAC] Primus Lighting, Inc.

[LUMCAT] CV5-FL - 35K - M - 4'

[LUMINAIRE] COVE 5 FLAT LENS 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	2165
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	73
Total Luminaire Watts	29.61
Ballast Factor	1.00
CIE Type	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)	0.42 ft
Luminous Width (90-270)	3.75 ft
Luminous Height	0.15 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	39	0	0
65	229	111	0
75	758	270	0
85	2713	1898	54

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L022511601.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	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0
45	0	0	0	0	0	0	0	0	0
50	4	4	0	0	0	0	0	0	0
55	5	5	0	0	0	0	0	0	0
60	19	17	3	0	0	0	0	0	0
65	25	22	11	2	0	0	0	0	0
70	31	28	16	2	0	0	0	0	0
75	67	65	21	6	0	0	0	0	0
80	116	112	53	10	0	0	0	0	0
85	176	164	102	38	1	0	0	0	0
90	231	221	154	86	2	0	0	0	0
95	288	280	208	135	42	1	0	0	0
100	334	334	264	185	88	16	1	0	0
105	402	390	319	239	140	61	17	1	1
110	453	444	370	294	191	108	66	19	17
115	504	492	423	345	244	158	111	69	86
120	552	539	472	398	299	209	163	118	116
125	593	582	516	446	342	261	216	173	170
130	631	618	558	488	398	317	266	227	222
135	663	650	594	530	445	365	319	278	276
140	687	676	624	565	486	412	369	330	329
145	707	695	650	596	525	458	418	378	378
150	719	708	670	622	559	501	464	428	428
155	725	715	683	642	588	538	508	474	477
160	724	715	690	657	613	572	548	519	521
165	718	709	692	666	632	601	583	561	563
170	706	698	687	669	646	625	614	597	602
175	688	681	677	666	654	644	640	630	636
180	659	659	659	659	659	659	659	659	659

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L022511601.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	0.00	N.A.	0.00
0-30	0.00	N.A.	0.00
0-40	0.00	N.A.	0.00
0-60	1.59	N.A.	0.10
0-80	25.48	N.A.	1.20
0-90	79.99	N.A.	3.70
10-90	79.99	N.A.	3.70
20-40	0.00	N.A.	0.00
20-50	0.15	N.A.	0.00
40-70	7.38	N.A.	0.30
60-80	23.89	N.A.	1.10
70-80	18.10	N.A.	0.80
80-90	54.51	N.A.	2.50
90-110	293.07	N.A.	13.50
90-120	557.24	N.A.	25.70
90-130	883.64	N.A.	40.80
90-150	1568.99	N.A.	72.50
90-180	2084.53	N.A.	96.30
110-180	1791.47	N.A.	82.80
0-180	2164.52	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	0.00
10-20	0.00
20-30	0.00
30-40	0.00
40-50	0.15
50-60	1.44
60-70	5.79
70-80	18.10
80-90	54.51
90-100	110.87
100-110	182.20
110-120	264.18
120-130	326.40
130-140	351.89
140-150	333.45
150-160	273.69
160-170	179.42
170-180	62.43

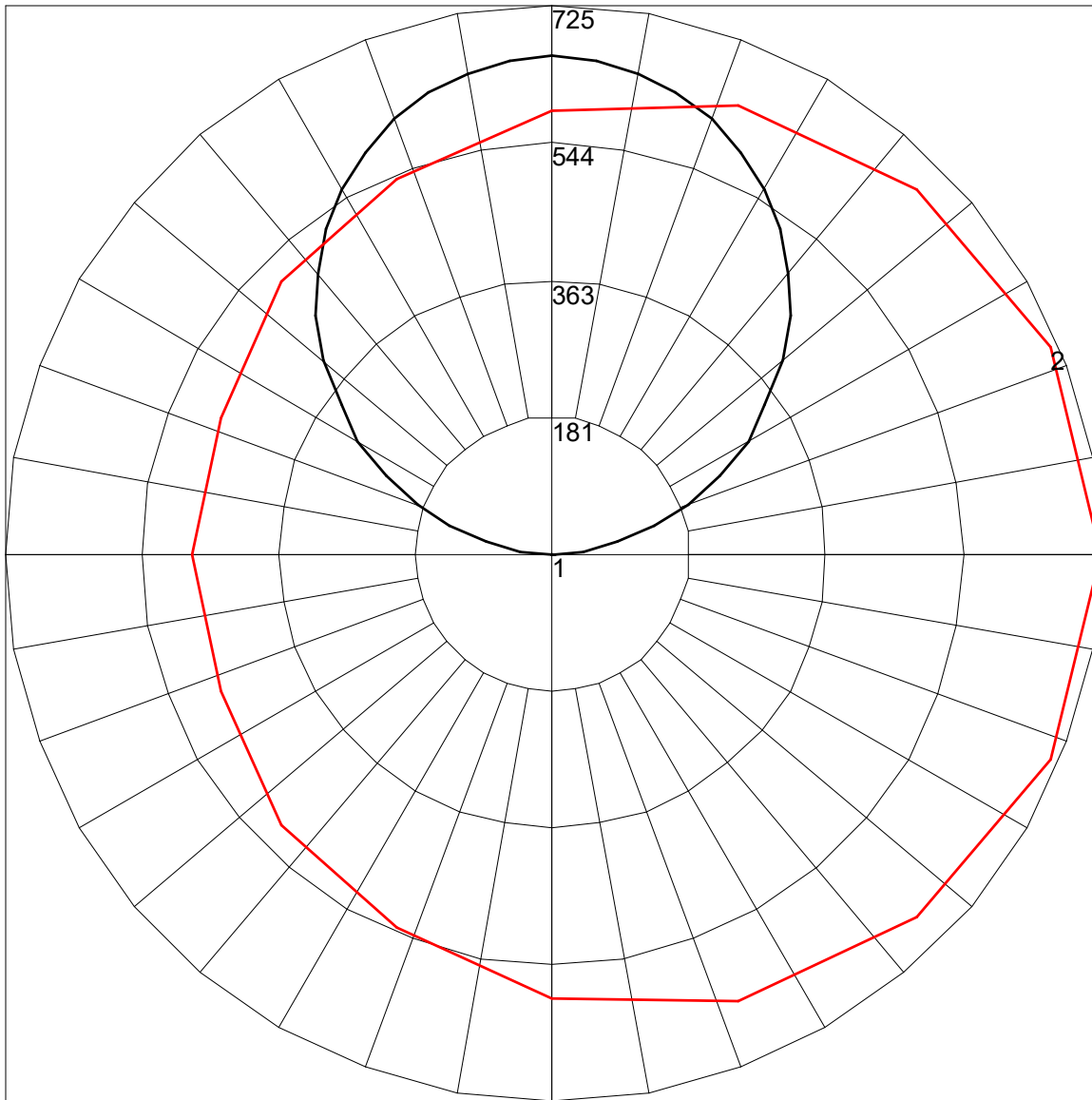
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	96	96	96	96	83	83	83	83	58	58	58	35	35	35	14	14	14	4
1	86	82	78	74	74	70	67	64	49	47	45	29	28	26	10	10	9	1
2	78	71	65	60	67	61	56	52	42	39	36	25	23	22	9	8	7	0
3	71	62	55	50	61	54	48	43	37	33	30	22	20	18	8	7	6	0
4	65	55	47	42	55	47	41	36	33	29	26	19	17	15	7	6	5	0
5	59	49	41	35	51	42	35	31	29	25	22	17	15	13	6	5	4	0
6	55	43	36	30	46	37	31	26	26	22	19	15	13	11	5	4	4	0
7	50	39	31	26	43	33	27	23	23	19	16	14	11	10	5	4	3	0
8	46	35	28	23	40	30	24	20	21	17	14	12	10	8	4	4	3	0
9	43	31	25	20	37	27	21	17	19	15	12	11	9	7	4	3	3	0
10	40	29	22	17	34	25	19	15	17	14	11	10	8	7	4	3	2	0

POLAR GRAPH



Maximum Candela = 725 Located At Horizontal Angle = 0, Vertical Angle = 155
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (155) (Through Max. Cd.)