



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

Report No: L022511702



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Issue Date: 2/18/2025

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

Reference:N/A

Amendment:N/A

Model Number: CV5+A - 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: 2/18/25

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+A - 35K - M - 4'
Driver Model Number:	XC1050C140V048BPT1

Photometric & Electrical Test Results

Total Lumens:	5793.00
Efficacy:	97.11
Input Voltage (VAC/60Hz):	120.02
Input Current (Amp):	0.4999
Input Power (W):	59.66
Input Power Factor:	0.9942
Current ATHD (%):	6.8%

Test Condition

Ambient Temperature (°C):	25.0
Stabilization Time (Hours):	0:30
Total Operating Time (Hours):	1:00

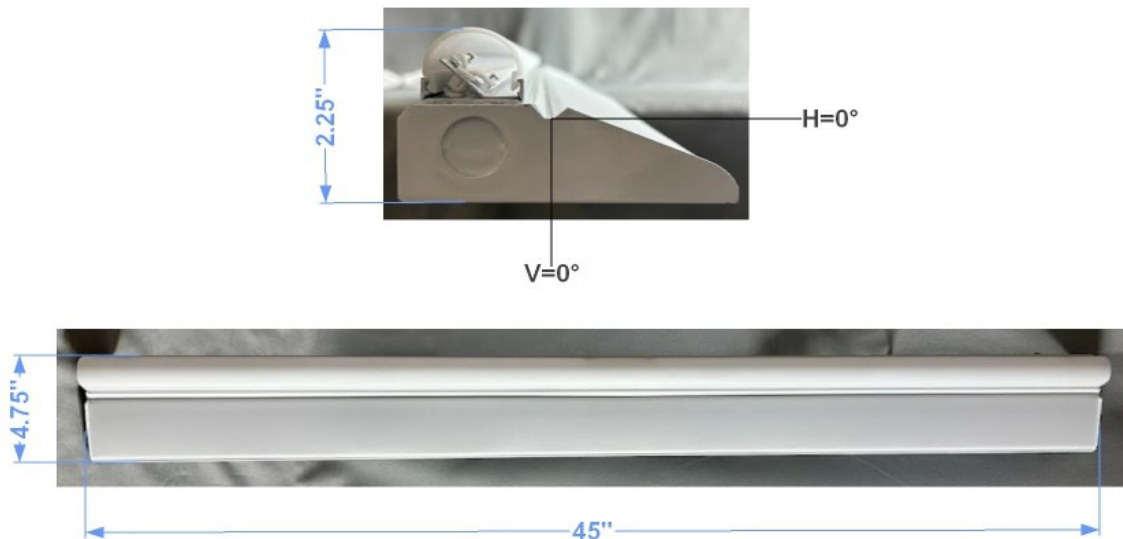


FIG. 1 LUMINAIRE



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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 : L022511702.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] L022511702

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

[ISSUEDATE] 2/18/2025

[MANUFAC] Primus Lighting, Inc.

[LUMCAT] CV5+A - 35K - M - 4'

[LUMINAIRE] COVE 5 PLUS ASYMMETRIC 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	5793
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	59.66
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	Point
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	0.00 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L022511702.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	8	8	8
25	0	0	0	0	0	0	8	9	10
30	0	0	0	0	0	0	9	11	12
35	0	0	0	6	7	7	10	12	12
40	0	0	0	6	7	7	11	9	10
45	5	5	5	6	7	7	10	10	19
50	7	5	5	6	7	8	9	20	23
55	8	8	5	7	7	8	16	24	28
60	30	25	7	7	7	9	19	29	34
65	223	170	10	7	7	7	23	35	42
70	291	261	91	7	7	11	29	43	51
75	382	349	195	11	7	13	36	53	63
80	492	453	274	94	7	17	45	65	76
85	607	563	358	161	8	24	59	81	92
90	719	683	479	258	8	37	80	100	113
95	838	795	594	363	113	58	99	121	135
100	955	908	710	481	230	90	127	147	161
105	1063	1026	824	608	349	155	161	176	191
110	1174	1132	940	732	481	283	198	208	222
115	1280	1241	1057	853	616	414	278	245	257
120	1375	1343	1166	979	746	550	432	290	295
125	1467	1431	1268	1090	874	683	565	429	415
130	1549	1515	1365	1199	998	811	702	582	578
135	1619	1588	1450	1299	1113	933	843	720	722
140	1676	1646	1525	1385	1220	1051	971	856	854
145	1722	1695	1590	1466	1321	1162	1089	997	996
150	1755	1730	1640	1531	1407	1266	1197	1124	1122
155	1774	1751	1677	1587	1485	1359	1298	1227	1232
160	1777	1757	1701	1628	1549	1441	1393	1328	1336
165	1767	1750	1711	1655	1600	1514	1473	1426	1427
170	1744	1728	1706	1667	1639	1572	1546	1507	1515
175	1706	1691	1687	1665	1660	1617	1607	1581	1591
180	1651	1651	1651	1651	1651	1651	1651	1651	1651

IES INDOOR REPORT
PHOTOMETRIC FILENAME : L022511702.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	0.21	N.A.	0.00
0-30	1.52	N.A.	0.00
0-40	4.82	N.A.	0.10
0-60	21.91	N.A.	0.40
0-80	190.23	N.A.	3.30
0-90	412.20	N.A.	7.10
10-90	412.20	N.A.	7.10
20-40	4.61	N.A.	0.10
20-50	10.55	N.A.	0.20
40-70	65.10	N.A.	1.10
60-80	168.33	N.A.	2.90
70-80	120.31	N.A.	2.10
80-90	221.97	N.A.	3.80
90-110	881.24	N.A.	15.20
90-120	1561.31	N.A.	27.00
90-130	2376.62	N.A.	41.00
90-150	4090.23	N.A.	70.60
90-180	5380.77	N.A.	92.90
110-180	4499.53	N.A.	77.70
0-180	5792.97	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	0.00
10-20	0.21
20-30	1.31
30-40	3.30
40-50	5.94
50-60	11.15
60-70	48.01
70-80	120.31
80-90	221.97
90-100	360.27
100-110	520.97
110-120	680.07
120-130	815.31
130-140	878.85
140-150	834.76
150-160	685.12
160-170	449.08
170-180	156.34

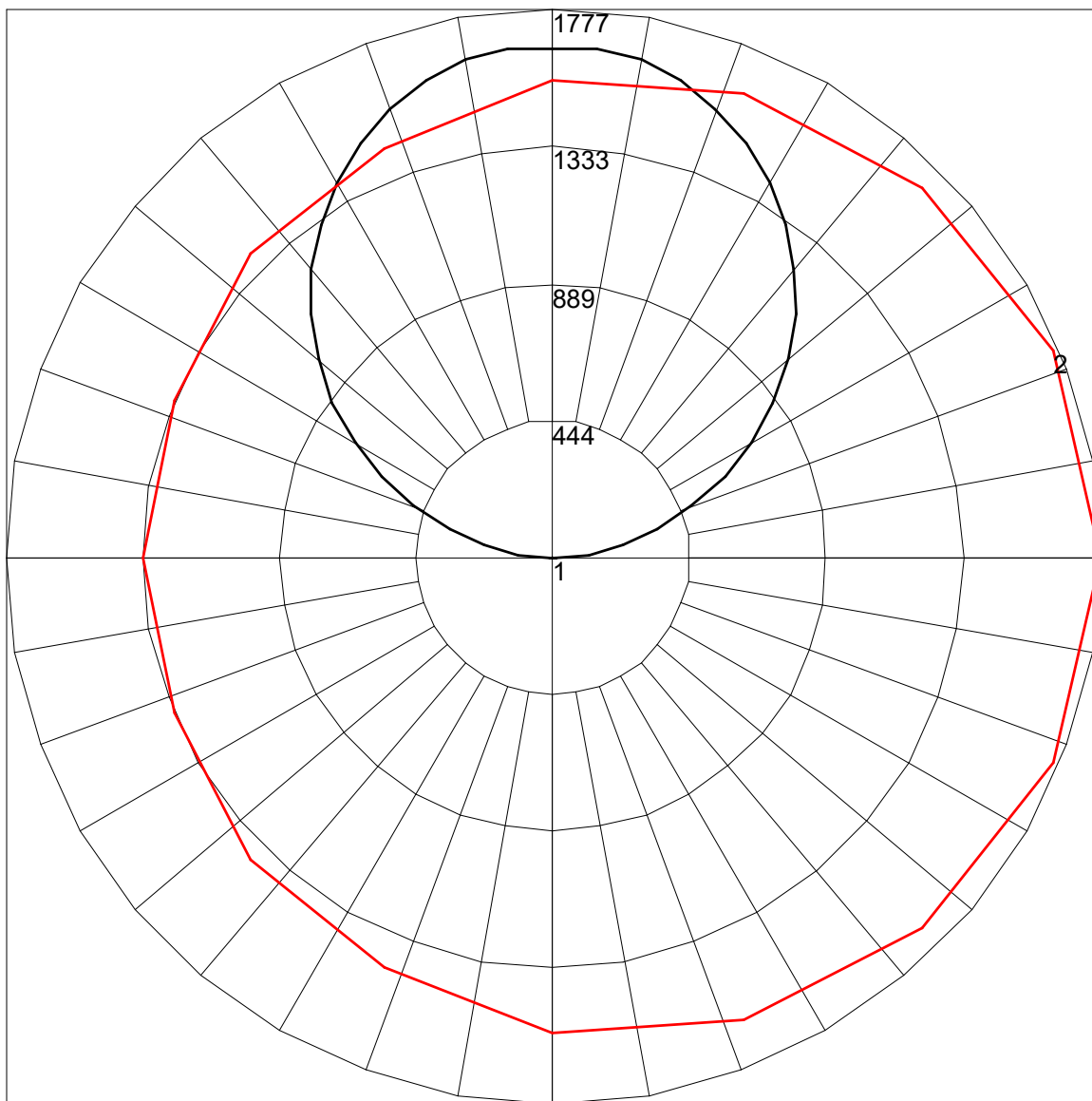
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	97	97	97	97	84	84	84	84	60	60	60	37	37	37	17	17	17	7
1	86	82	77	74	74	70	67	64	49	47	45	30	29	27	12	11	11	2
2	78	71	64	59	67	61	56	51	43	39	36	26	24	22	10	9	8	1
3	71	62	54	49	61	53	47	42	37	33	30	22	20	18	9	7	6	1
4	65	54	47	41	55	47	40	35	33	28	25	20	17	15	7	6	5	0
5	59	48	40	34	51	41	35	30	29	25	21	17	15	13	7	5	5	0
6	54	43	35	29	46	37	30	26	26	22	18	16	13	11	6	5	4	0
7	50	38	31	25	43	33	27	22	23	19	16	14	11	9	5	4	3	0
8	46	34	27	22	40	30	24	19	21	17	14	13	10	8	5	4	3	0
9	43	31	24	19	37	27	21	17	19	15	12	12	9	7	5	3	3	0
10	40	28	22	17	34	25	19	15	17	13	11	11	8	6	4	3	2	0

POLAR GRAPH



Maximum Candela = 1777 Located At Horizontal Angle = 0, Vertical Angle = 160

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

2 - Horizontal Cone Through Vertical Angle (160) (Through Max. Cd.)