



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

Report No: L022511801



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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 - 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: 2/24/25

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

Photometric & Electrical Test Results

Total Lumens:	2819.00
Efficacy:	94.69
Input Voltage (VAC/60Hz):	120.02
Input Current (Amp):	0.2499
Input Power (W):	29.77
Input Power Factor:	0.9926
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 : L022511801.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L022511801
[TESTLAB] LIGHT LABORATORY, INC. (www.lightlaboratory.com)
[ISSUE DATE] 2/25/2025
[MANUFAC] Primus Lighting, Inc.
[LUMCAT] RC2 - FL - 35K - M - 4'
[LUMINAIRE] RECESSED 2" FLAT 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	2819
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	95
Total Luminaire Watts	29.77
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.38
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	14304	12498	12167
55	13615	11426	11204
65	12916	10175	10081
75	11533	8814	8710
85	9488	6219	6453

IES INDOOR REPORT
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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	922	922	922	922	922	922	922	922	922
5	917	919	918	920	920	917	918	916	918
10	904	908	905	909	907	904	907	902	906
15	883	888	884	890	887	883	886	880	885
20	853	860	855	864	860	854	859	850	855
25	815	826	818	830	824	818	823	811	820
30	772	782	777	788	784	775	781	769	776
35	721	733	727	741	737	726	731	717	725
40	664	680	672	691	684	672	679	660	672
45	606	620	615	635	630	617	620	602	611
50	539	555	551	573	569	556	557	536	545
55	470	490	485	514	509	493	494	466	479
60	401	419	422	449	448	431	427	399	407
65	331	346	350	383	380	356	359	329	333
70	257	278	288	320	316	300	295	258	262
75	184	208	223	253	251	235	227	189	189
80	119	143	161	188	185	171	162	127	120
85	55	88	96	127	123	108	103	66	69
90	0	30	45	71	68	59	47	20	0
95	0	10	32	51	55	46	32	5	0
100	0	0	11	33	36	26	13	0	0
105	0	0	0	11	13	6	0	0	0
110	0	0	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0
125	0	0	0	0	0	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	337.09	N.A.	12.00
0-30	715.51	N.A.	25.40
0-40	1172.03	N.A.	41.60
0-60	2087.71	N.A.	74.00
0-80	2674.98	N.A.	94.90
0-90	2782.01	N.A.	98.70
10-90	2694.75	N.A.	95.60
20-40	834.94	N.A.	29.60
20-50	1311.66	N.A.	46.50
40-70	1268.11	N.A.	45.00
60-80	587.27	N.A.	20.80
70-80	234.84	N.A.	8.30
80-90	107.03	N.A.	3.80
90-110	37.39	N.A.	1.30
90-120	37.39	N.A.	1.30
90-130	37.39	N.A.	1.30
90-150	37.39	N.A.	1.30
90-180	37.39	N.A.	1.30
110-180	0.00	N.A.	0.00
0-180	2819.4	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	87.25
10-20	249.83
20-30	378.43
30-40	456.52
40-50	476.71
50-60	438.97
60-70	352.42
70-80	234.84
80-90	107.03
90-100	31.43
100-110	5.96
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	101	101	101	99
1	107	102	97	93	104	100	95	92	95	92	88	91	88	85	87	85	83	80
2	97	88	81	75	94	86	80	74	83	77	72	79	74	70	76	72	68	66
3	88	77	69	62	86	76	68	61	72	66	60	69	64	59	67	62	58	55
4	81	68	59	52	78	67	58	52	64	57	51	62	55	50	59	54	49	47
5	74	61	52	45	72	60	51	44	57	50	44	55	49	43	53	47	43	40
6	68	55	46	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35
7	63	50	41	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31
8	59	45	37	31	57	44	36	30	43	36	30	42	35	30	40	34	30	28
9	55	42	33	28	54	41	33	27	40	32	27	38	32	27	37	31	27	25
10	52	38	30	25	50	38	30	25	37	30	25	36	29	24	35	29	24	22

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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	20.1	21.8	20.5	22.1	22.4	21.1	22.7	21.5	23.1	23.4
	3H	21.8	23.3	22.2	23.6	24.0	23.2	24.8	23.6	25.1	25.5
	4H	22.4	23.8	22.8	24.2	24.6	24.2	25.6	24.6	26.0	26.4
	6H	22.8	24.1	23.2	24.5	24.9	25.1	26.4	25.5	26.8	27.2
	8H	22.9	24.2	23.3	24.6	25.0	25.5	26.8	25.9	27.2	27.6
	12H	23.0	24.2	23.4	24.6	25.0	25.9	27.1	26.3	27.5	28.0

UGR Viewed Endwise

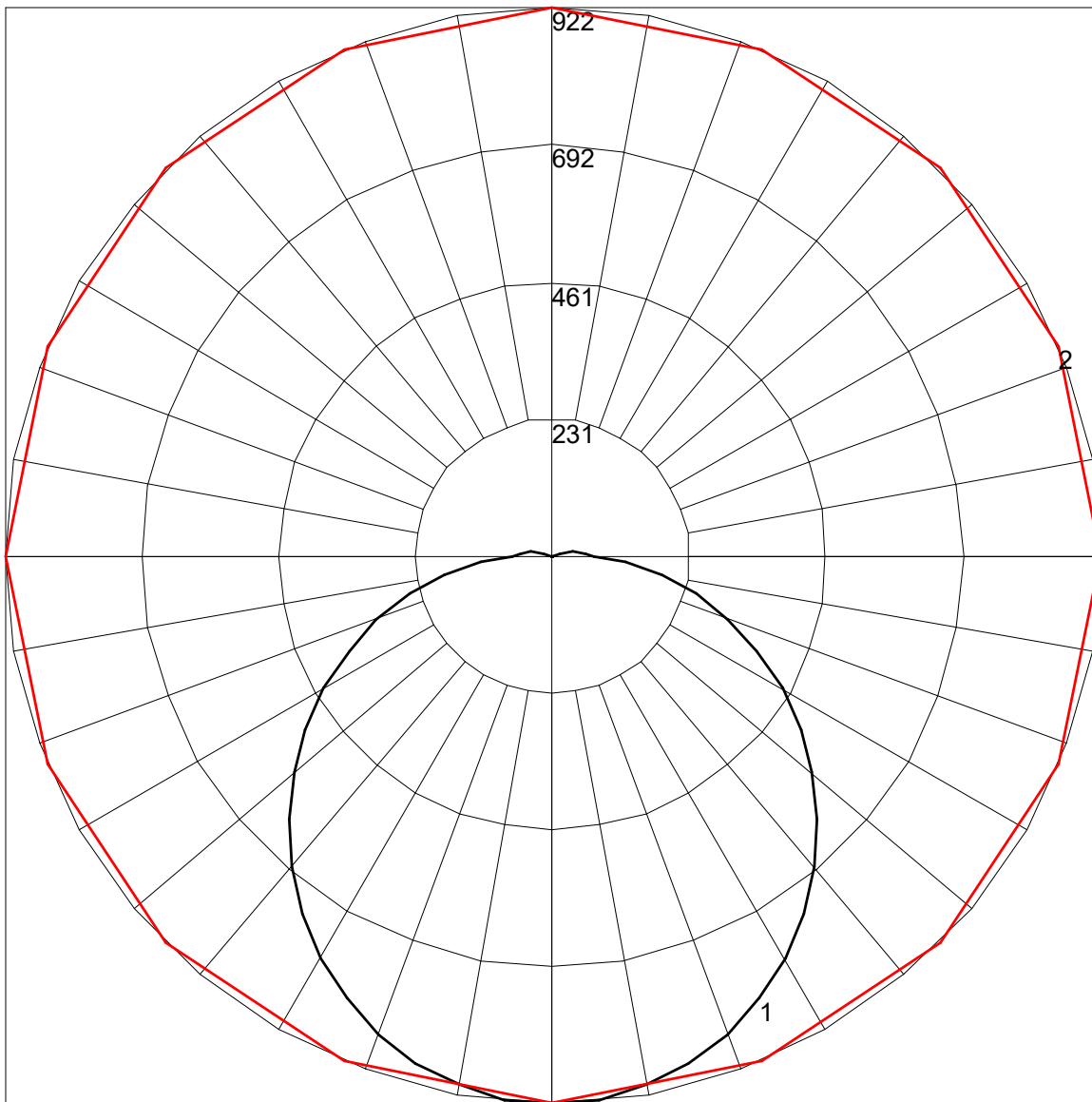
4H	2H	20.8	22.2	21.2	22.6	23.0	21.6	23.0	22.0	23.4	23.8
	3H	22.7	23.9	23.1	24.3	24.8	24.0	25.2	24.4	25.6	26.0
	4H	23.4	24.5	23.9	25.0	25.4	25.1	26.2	25.5	26.6	27.1
	6H	24.0	25.0	24.5	25.4	25.9	26.1	27.1	26.6	27.6	28.0
	8H	24.2	25.1	24.7	25.5	26.0	26.6	27.5	27.1	28.0	28.5
	12H	24.3	25.1	24.8	25.6	26.1	27.1	27.9	27.6	28.4	28.9

8H	4H	23.9	24.8	24.4	25.3	25.8	25.4	26.3	25.8	26.7	27.2
	6H	24.6	25.4	25.1	25.9	26.4	26.5	27.3	27.0	27.8	28.3
	8H	24.9	25.6	25.4	26.1	26.6	27.1	27.8	27.6	28.3	28.8
	12H	25.1	25.7	25.6	26.2	26.8	27.7	28.3	28.2	28.8	29.4

12H	4H	24.0	24.8	24.5	25.3	25.8	25.4	26.2	25.9	26.7	27.2
	6H	24.8	25.5	25.3	25.9	26.5	26.6	27.3	27.1	27.8	28.3
	8H	25.1	25.7	25.6	26.2	26.8	27.2	27.8	27.7	28.3	28.9

Maximum UGR = 29.4

POLAR GRAPH



Maximum Candela = 922 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.)