

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P274712

Luminaire Tested: **14CZ2-39-RDP-UNV-L935-CD1-U**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P274712
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-43)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-39-RDP-UNV-L935-CD1-U
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS WITH INSERT, 90CRI
Light Source: (112) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2133.0 lumens
Efficiency: N/A
Efficacy: 66.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

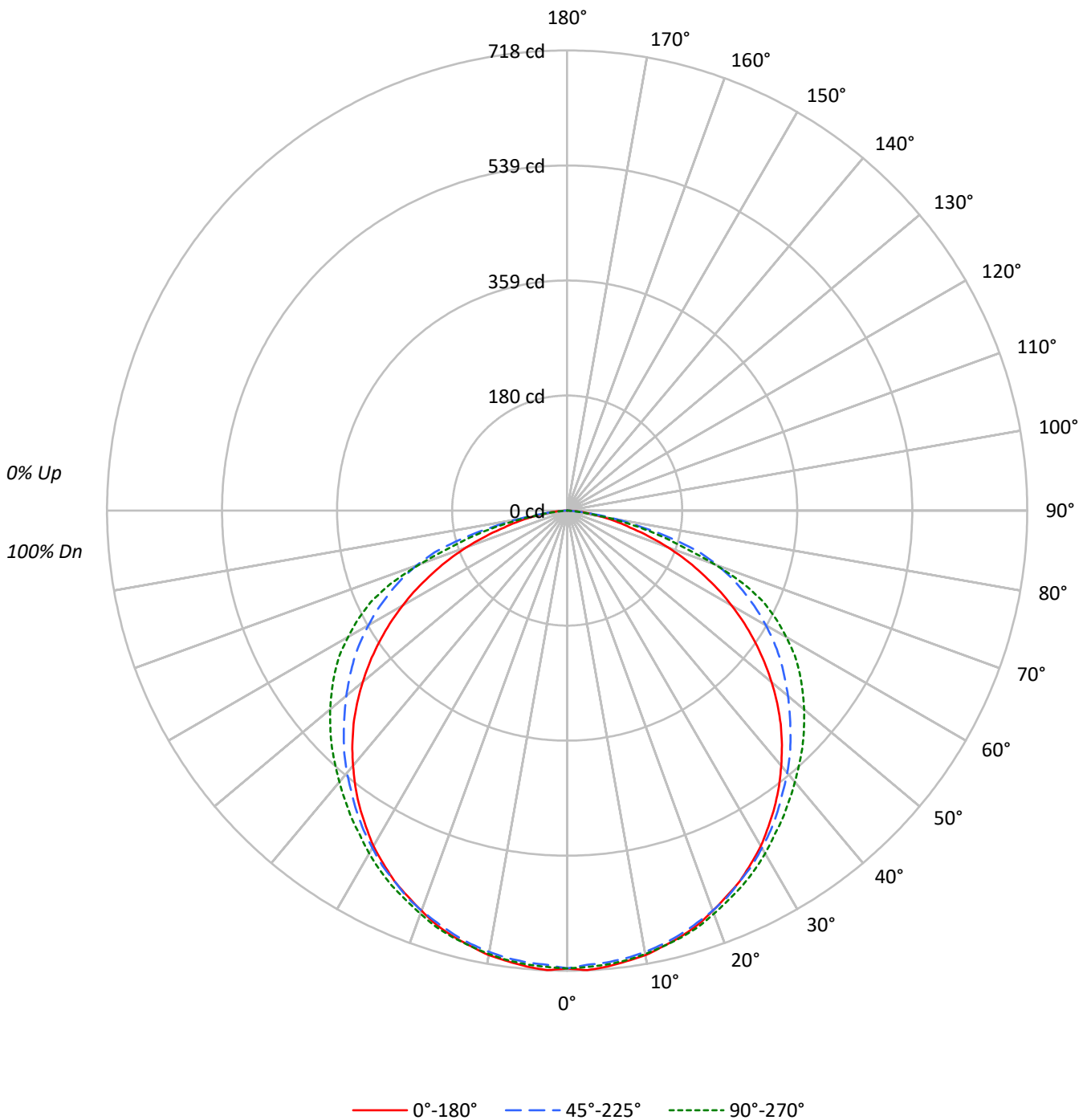
Input Watts (W): 32.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1922	1922	1922
5°	1930	1912	1921
10°	1925	1911	1920
15°	1916	1907	1921
20°	1903	1903	1917
25°	1894	1894	1918
30°	1878	1889	1920
35°	1854	1882	1926
40°	1825	1878	1942
45°	1794	1876	1977
50°	1743	1882	2022
55°	1680	1906	2078
60°	1595	1927	2124
65°	1474	1951	2152
70°	1310	1965	1926
75°	1056	1766	1541
80°	826	1238	1006
85°	565	361	256



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.6	3.2
10°-20°	194.0	9.1
20°-30°	295.4	13.8
30°-40°	359.8	16.9
40°-50°	381.7	17.9
50°-60°	360.3	16.9
60°-70°	290.9	13.6
70°-80°	157.8	7.4
80°-90°	25.5	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	557.0	26.1
0°-40°	916.8	43.0
0°-60°	1658.8	77.8
0°-90°	2133.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2133.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	714	714	714	714	714	
5°	714	713	708	713	711	68
15°	688	686	684	689	689	194
25°	638	636	638	644	646	294
35°	564	568	573	584	586	353
45°	471	478	493	511	520	363
55°	358	373	406	433	443	320
65°	232	260	306	331	338	229
75°	102	148	170	153	148	111
85°	18	20	12	10	8	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	714.4	714.4	714.4	714.4	714.4
2.5°	717.7	714.4	709.4	714.4	712.7
5°	714.4	712.7	707.7	712.7	711.1
7.5°	709.4	709.4	704.4	707.7	707.7
10°	704.4	702.7	699.4	704.4	702.7
12.5°	696.1	694.4	692.7	697.7	696.1
15°	687.8	686.1	684.4	689.4	689.4
17.5°	677.8	676.1	674.4	681.1	681.1
20°	664.4	664.4	664.4	671.1	669.4
22.5°	651.1	651.1	652.8	659.4	657.8
25°	637.8	636.1	637.8	644.5	646.1
27.5°	621.1	622.8	624.5	631.1	632.8
30°	604.5	606.2	607.8	616.1	617.8
32.5°	584.5	587.8	591.2	601.2	601.2
35°	564.5	567.9	572.8	584.5	586.2
37.5°	542.9	546.2	552.9	566.2	569.5
40°	519.6	524.6	534.5	547.9	552.9
42.5°	496.2	502.9	514.6	529.6	536.2
45°	471.3	477.9	492.9	511.2	519.6
47.5°	444.6	453.0	471.3	494.6	501.2
50°	416.3	428.0	449.6	474.6	482.9
52.5°	388.0	401.3	428.0	454.6	462.9
55°	358.0	373.0	406.3	433.0	443.0
57.5°	328.1	344.7	383.0	411.3	421.3
60°	296.4	316.4	358.0	386.3	394.7
62.5°	264.8	288.1	333.1	361.4	368.0
65°	231.5	259.8	306.4	331.4	338.0
67.5°	199.8	233.1	279.8	298.1	298.1
70°	166.5	203.2	249.8	254.8	244.8
72.5°	133.2	174.9	216.5	198.2	189.8
75°	101.6	148.2	169.9	153.2	148.2
77.5°	76.6	119.9	119.9	109.9	106.6
80°	53.3	91.6	79.9	69.9	64.9
82.5°	35.0	51.6	41.6	33.3	28.3
85°	18.3	20.0	11.7	10.0	8.3
87.5°	6.7	3.3	1.7	3.3	1.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)