

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: P274711

Luminaire Tested: **14CZ2-39-RDP-UNV-L930-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: P274711
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-L930-CD1-U
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS WITH INSERT, 90CRI
Light Source: (112) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2081.0 lumens
Efficiency: N/A
Efficacy: 64.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

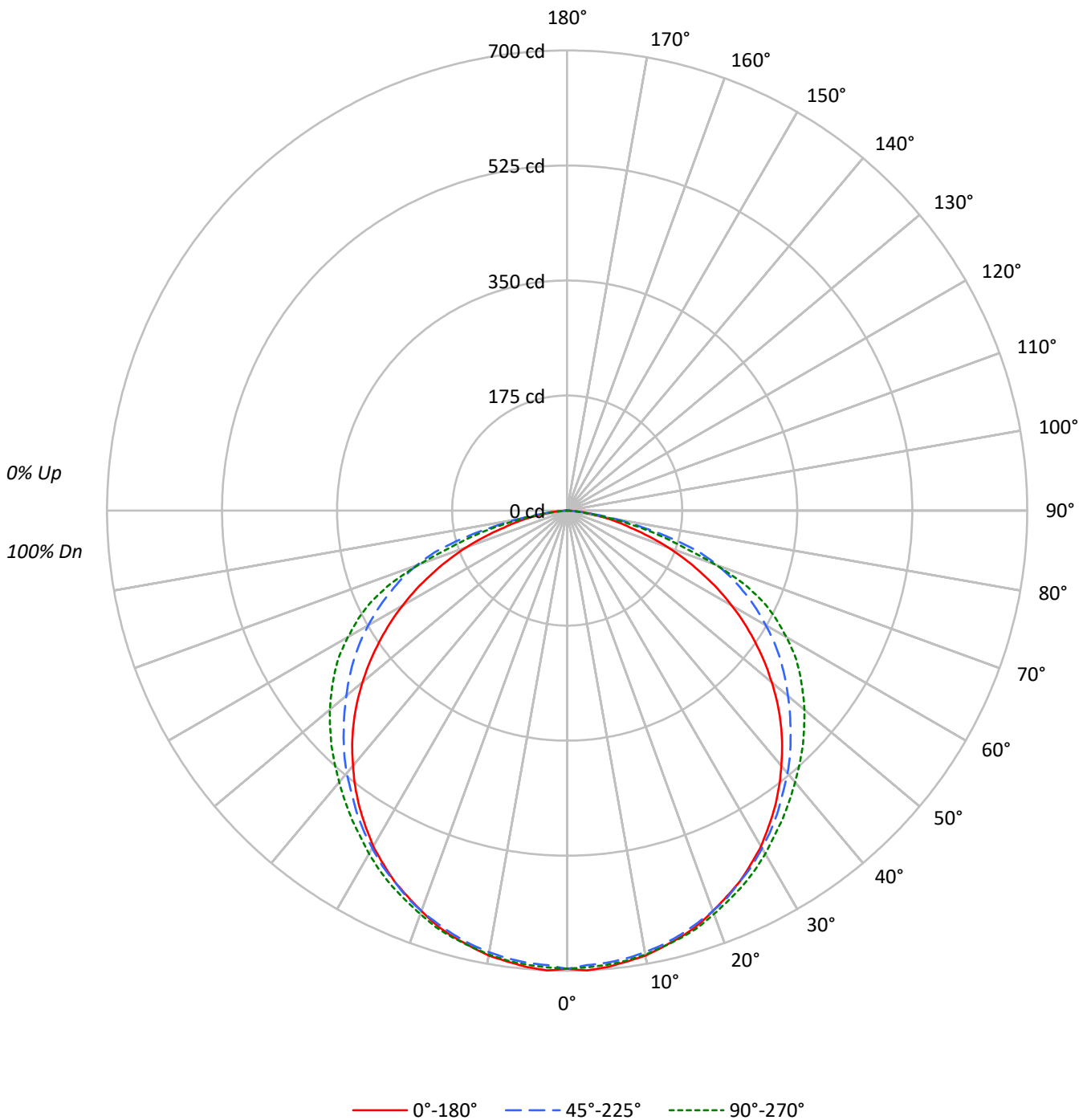
Input Watts (W): 32.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1876	1876	1876
5°	1883	1865	1874
10°	1878	1865	1873
15°	1869	1860	1874
20°	1856	1856	1870
25°	1847	1847	1872
30°	1833	1843	1873
35°	1809	1836	1879
40°	1781	1832	1895
45°	1750	1830	1929
50°	1701	1837	1973
55°	1639	1860	2028
60°	1556	1880	2072
65°	1438	1903	2100
70°	1279	1917	1879
75°	1030	1723	1503
80°	806	1209	982
85°	553	352	250



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.0	3.2
10°-20°	189.3	9.1
20°-30°	288.2	13.8
30°-40°	351.0	16.9
40°-50°	372.4	17.9
50°-60°	351.5	16.9
60°-70°	283.8	13.6
70°-80°	153.9	7.4
80°-90°	24.9	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°	543.4	26.1
0°-40°	894.5	43.0
0°-60°	1618.3	77.8
0°-90°	2081.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2081.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	697	697	697	697	697	
5°	697	695	690	695	694	66
15°	671	669	668	673	673	189
25°	622	621	622	629	630	286
35°	551	554	559	570	572	344
45°	460	466	481	499	507	354
55°	349	364	396	422	432	312
65°	226	253	299	323	330	224
75°	99	145	166	150	145	108
85°	18	20	11	10	8	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	697.0	697.0	697.0	697.0	697.0
2.5°	700.2	697.0	692.1	697.0	695.4
5°	697.0	695.4	690.5	695.4	693.7
7.5°	692.1	692.1	687.2	690.5	690.5
10°	687.2	685.6	682.4	687.2	685.6
12.5°	679.1	677.5	675.9	680.7	679.1
15°	671.0	669.4	667.7	672.6	672.6
17.5°	661.2	659.6	658.0	664.5	664.5
20°	648.2	648.2	648.2	654.7	653.1
22.5°	635.2	635.2	636.9	643.4	641.7
25°	622.2	620.6	622.2	628.7	630.4
27.5°	606.0	607.6	609.2	615.7	617.4
30°	589.8	591.4	593.0	601.1	602.7
32.5°	570.3	573.5	576.8	586.5	586.5
35°	550.8	554.0	558.9	570.3	571.9
37.5°	529.6	532.9	539.4	552.4	555.6
40°	506.9	511.8	521.5	534.5	539.4
42.5°	484.1	490.6	502.0	516.6	523.1
45°	459.8	466.3	480.9	498.8	506.9
47.5°	433.8	441.9	459.8	482.5	489.0
50°	406.2	417.5	438.7	463.0	471.2
52.5°	378.5	391.5	417.5	443.5	451.7
55°	349.3	363.9	396.4	422.4	432.2
57.5°	320.1	336.3	373.7	401.3	411.0
60°	289.2	308.7	349.3	376.9	385.0
62.5°	258.3	281.1	324.9	352.6	359.1
65°	225.8	253.4	298.9	323.3	329.8
67.5°	195.0	227.5	272.9	290.8	290.8
70°	162.5	198.2	243.7	248.6	238.8
72.5°	130.0	170.6	211.2	193.3	185.2
75°	99.1	144.6	165.7	149.5	144.6
77.5°	74.7	117.0	117.0	107.2	104.0
80°	52.0	89.4	78.0	68.2	63.4
82.5°	34.1	50.4	40.6	32.5	27.6
85°	17.9	19.5	11.4	9.7	8.1
87.5°	6.5	3.2	1.6	3.2	1.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)