

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: P275875

Luminaire Tested: **14CZ2-39-RDP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275875
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-L92765-W2A1-U-3000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2012.0 lumens
Efficiency: N/A
Efficacy: 65.6 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

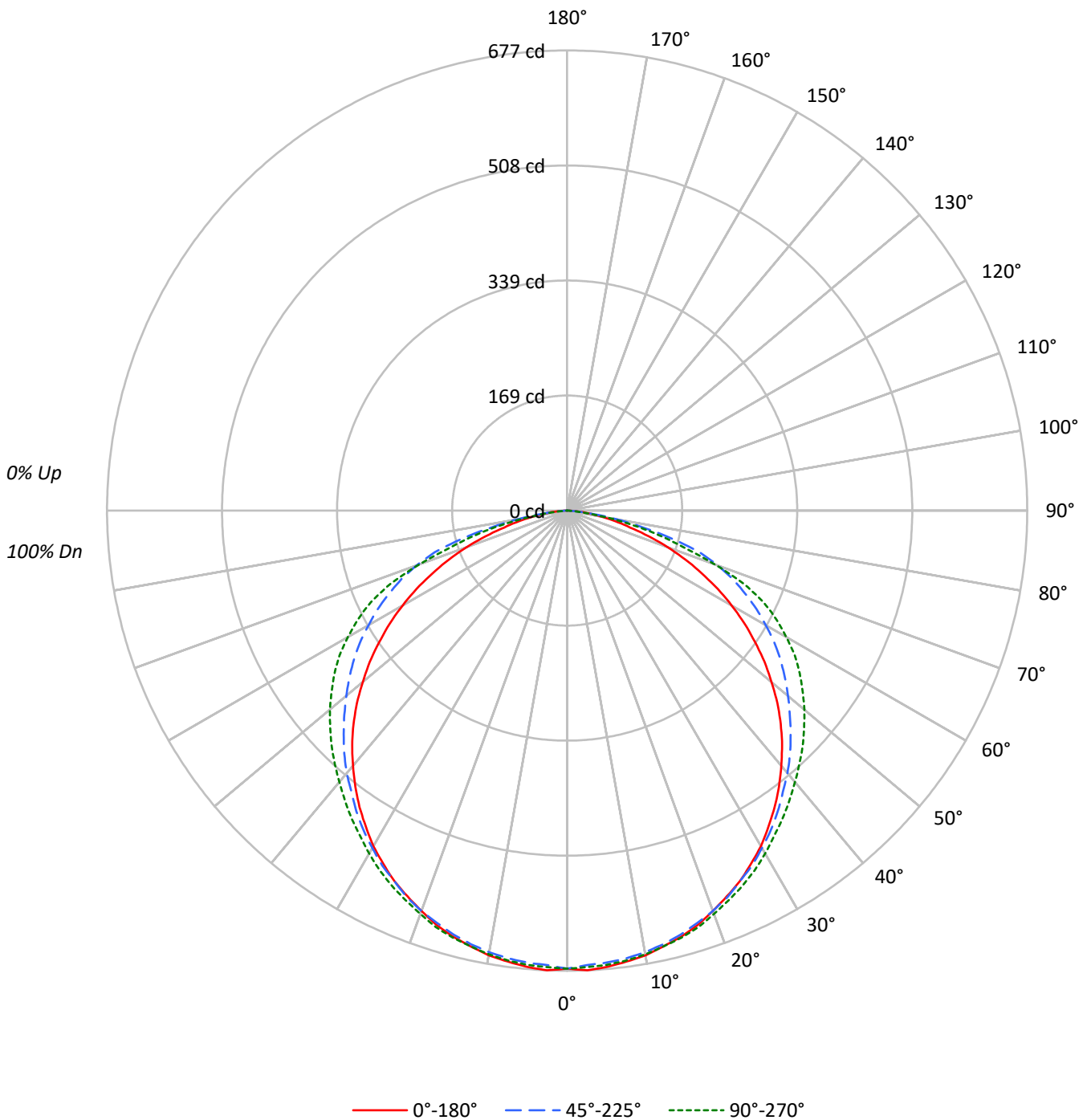
Input Watts (W): 30.69
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1813	1813	1813
5°	1820	1803	1812
10°	1815	1803	1811
15°	1807	1799	1812
20°	1795	1795	1808
25°	1786	1786	1810
30°	1772	1781	1811
35°	1749	1775	1816
40°	1722	1771	1832
45°	1692	1770	1865
50°	1644	1775	1907
55°	1584	1798	1960
60°	1505	1817	2004
65°	1390	1840	2031
70°	1236	1854	1817
75°	996	1666	1454
80°	779	1168	950
85°	534	340	244



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.8	3.2
10°-20°	183.0	9.1
20°-30°	278.6	13.8
30°-40°	339.4	16.9
40°-50°	360.1	17.9
50°-60°	339.8	16.9
60°-70°	274.4	13.6
70°-80°	148.8	7.4
80°-90°	24.1	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°	525.4	26.1
0°-40°	864.8	43.0
0°-60°	1564.7	77.8
0°-90°	2012.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2012.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	674	674	674	674	674	
5°	674	672	668	672	671	64
15°	649	647	646	650	650	183
25°	602	600	602	608	610	277
35°	532	536	540	551	553	333
45°	444	451	465	482	490	342
55°	338	352	383	408	418	302
65°	218	245	289	313	319	216
75°	96	140	160	144	140	105
85°	17	19	11	9	8	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	673.9	673.9	673.9	673.9	673.9
2.5°	677.0	673.9	669.2	673.9	672.3
5°	673.9	672.3	667.6	672.3	670.7
7.5°	669.2	669.2	664.4	667.6	667.6
10°	664.4	662.9	659.7	664.4	662.9
12.5°	656.6	655.0	653.4	658.2	656.6
15°	648.7	647.2	645.6	650.3	650.3
17.5°	639.3	637.7	636.2	642.5	642.5
20°	626.7	626.7	626.7	633.0	631.5
22.5°	614.2	614.2	615.8	622.0	620.5
25°	601.6	600.0	601.6	607.9	609.5
27.5°	585.9	587.5	589.0	595.3	596.9
30°	570.2	571.8	573.3	581.2	582.8
32.5°	551.3	554.5	557.6	567.1	567.1
35°	532.5	535.6	540.4	551.3	552.9
37.5°	512.1	515.2	521.5	534.1	537.2
40°	490.1	494.8	504.2	516.8	521.5
42.5°	468.1	474.4	485.4	499.5	505.8
45°	444.5	450.8	465.0	482.2	490.1
47.5°	419.4	427.3	444.5	466.5	472.8
50°	392.7	403.7	424.1	447.7	455.5
52.5°	366.0	378.6	403.7	428.8	436.7
55°	337.7	351.9	383.3	408.4	417.8
57.5°	309.4	325.2	361.3	388.0	397.4
60°	279.6	298.5	337.7	364.4	372.3
62.5°	249.8	271.7	314.2	340.9	347.1
65°	218.3	245.0	289.0	312.6	318.9
67.5°	188.5	219.9	263.9	281.2	281.2
70°	157.1	191.6	235.6	240.3	230.9
72.5°	125.7	164.9	204.2	186.9	179.1
75°	95.8	139.8	160.2	144.5	139.8
77.5°	72.3	113.1	113.1	103.7	100.5
80°	50.3	86.4	75.4	66.0	61.3
82.5°	33.0	48.7	39.3	31.4	26.7
85°	17.3	18.8	11.0	9.4	7.9
87.5°	6.3	3.1	1.6	3.1	1.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)