

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: P275510

Luminaire Tested: **14CZ2-20-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275510
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-49)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-20-UNV-L92765-W2A1-U-6500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1973.0 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

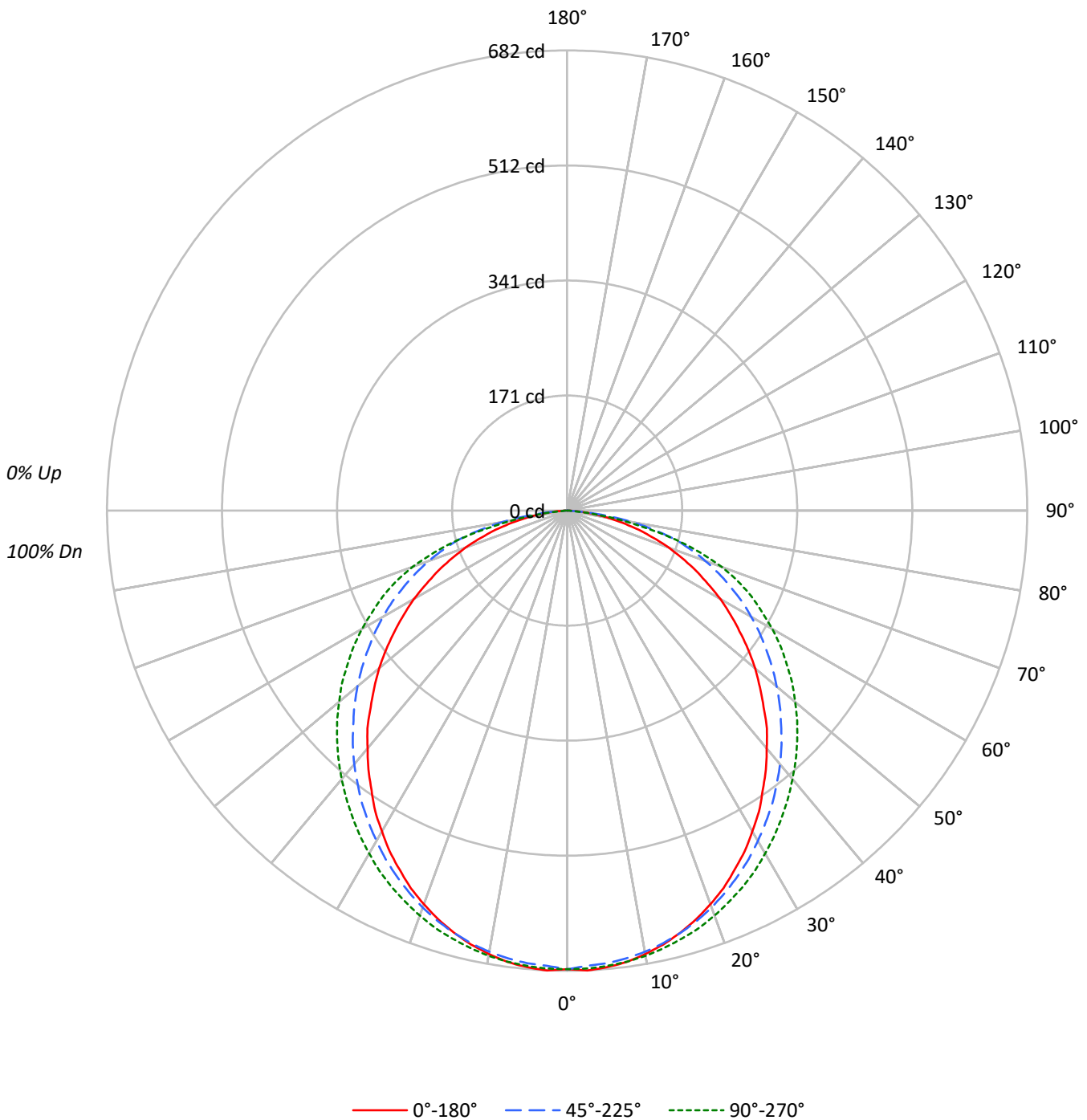
Input Watts (W): 16.089
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	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	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1829	1829	1829
5°	1835	1819	1830
10°	1824	1814	1831
15°	1804	1805	1830
20°	1778	1793	1829
25°	1744	1775	1828
30°	1706	1757	1824
35°	1661	1741	1823
40°	1617	1725	1825
45°	1567	1706	1835
50°	1521	1698	1847
55°	1463	1692	1864
60°	1411	1695	1890
65°	1339	1700	1919
70°	1257	1714	1917
75°	1138	1729	1733
80°	934	1492	1234
85°	692	707	284



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.3	3.3
10°-20°	183.7	9.3
20°-30°	276.8	14.0
30°-40°	332.1	16.8
40°-50°	346.2	17.5
50°-60°	320.5	16.2
60°-70°	258.9	13.1
70°-80°	157.9	8.0
80°-90°	32.6	1.7
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°	524.8	26.6
0°-40°	856.9	43.4
0°-60°	1523.6	77.2
0°-90°	1973.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1973.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	680	680	680	680	680	
5°	679	678	674	678	678	64
15°	648	648	648	657	657	183
25°	587	591	598	613	616	271
35°	506	513	530	550	555	317
45°	412	424	448	473	482	318
55°	312	328	361	389	397	279
65°	210	231	267	294	301	208
75°	110	134	166	169	167	115
85°	22	33	23	13	9	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	679.7	679.7	679.7	679.7	679.7
2.5°	682.3	680.1	675.3	680.1	679.3
5°	679.3	677.5	673.5	678.4	677.5
7.5°	674.9	673.1	669.6	675.3	674.4
10°	667.4	666.5	663.9	670.5	670.0
12.5°	658.6	658.1	656.8	664.3	663.9
15°	647.6	648.0	648.0	656.8	656.8
17.5°	635.3	636.2	637.9	647.6	648.9
20°	620.8	622.5	626.0	637.0	638.8
22.5°	605.8	607.1	612.4	625.6	627.4
25°	587.3	590.8	597.9	612.8	615.5
27.5°	569.7	572.8	582.5	597.9	602.3
30°	549.0	553.9	565.3	582.0	586.9
32.5°	529.2	534.5	547.7	567.1	571.5
35°	505.5	513.4	530.1	549.5	554.8
37.5°	483.9	491.4	510.3	531.4	537.6
40°	460.2	469.4	491.0	513.4	519.6
42.5°	438.2	447.0	470.3	493.2	501.5
45°	411.8	424.1	448.3	473.4	482.2
47.5°	387.6	399.9	427.6	454.5	462.4
50°	363.4	376.6	405.6	433.3	441.3
52.5°	338.3	352.4	383.6	411.3	420.6
55°	311.9	328.2	360.7	388.9	397.3
57.5°	286.8	303.6	338.3	366.9	375.3
60°	262.2	279.4	315.0	342.3	351.1
62.5°	234.9	255.2	292.1	319.0	325.6
65°	210.3	231.0	267.0	293.9	301.4
67.5°	184.3	206.8	242.8	267.5	274.5
70°	159.7	183.0	217.8	240.6	243.7
72.5°	133.3	157.1	192.3	206.8	206.8
75°	109.5	133.7	166.3	168.9	166.7
77.5°	83.6	110.4	131.5	126.3	121.0
80°	60.3	86.7	96.3	86.7	79.6
82.5°	40.5	62.9	58.1	46.2	40.9
85°	22.4	33.4	22.9	12.8	9.2
87.5°	8.4	7.5	2.2	2.2	2.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)