

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: P388275

Luminaire Tested: **22CZ2-95VHE-SQR-UNV-L935-CD1-SDWPD1-U**

Issue Date: 2/28/2020

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: P388275
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-542-6)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 2/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-95VHE-SQR-UNV-L935-CD1-SDWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 3500K, 90 LEDS, AND SQUARE LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7613.4 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

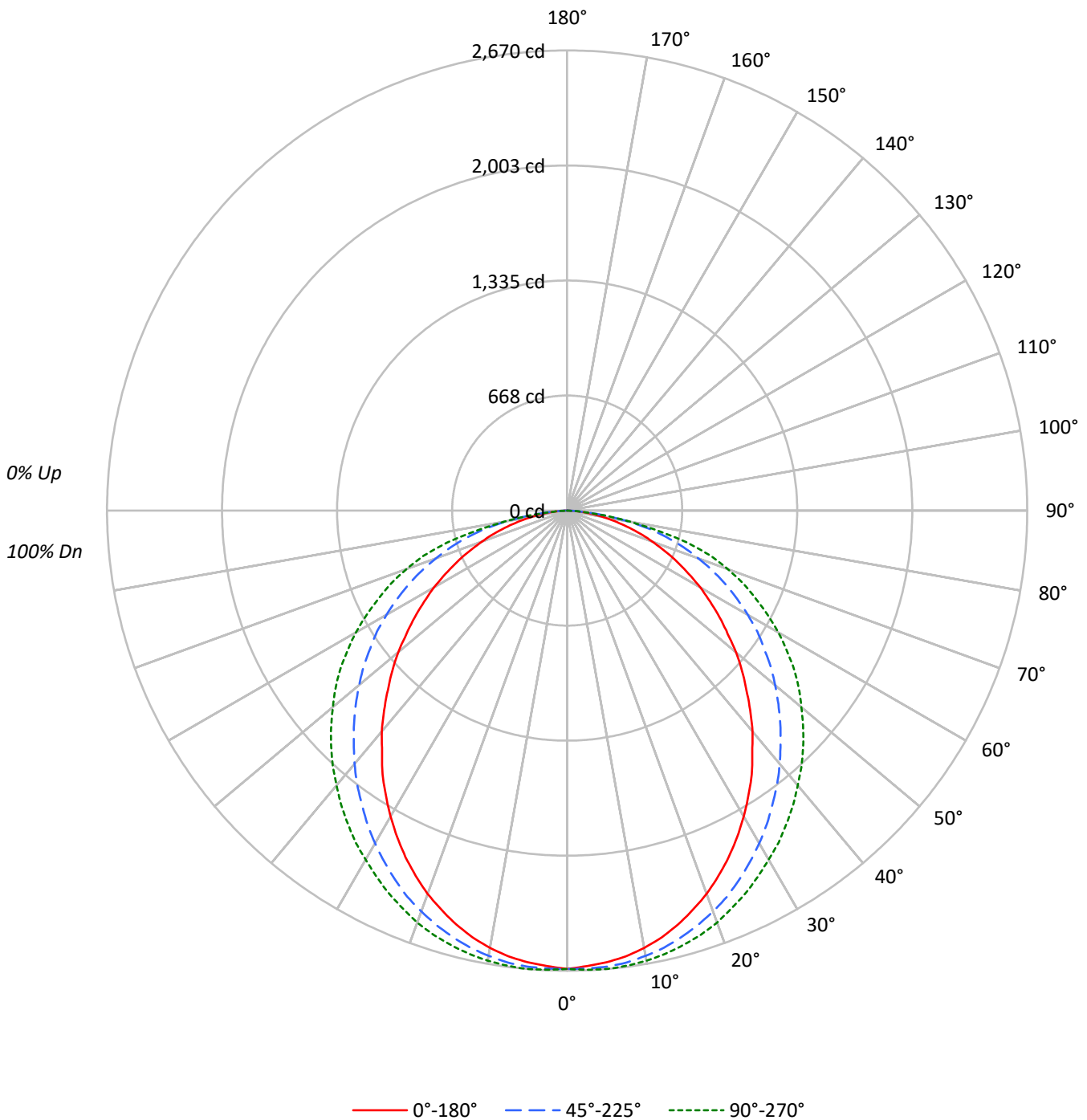
Input Watts (W): 72.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
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	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7157	7157	7157
5°	7106	7174	7213
10°	7040	7168	7247
15°	6926	7137	7268
20°	6778	7088	7285
25°	6588	7017	7274
30°	6366	6928	7264
35°	6137	6826	7289
40°	5877	6740	7312
45°	5597	6656	7371
50°	5355	6596	7428
55°	5069	6544	7544
60°	4803	6515	7624
65°	4486	6465	7685
70°	4123	6368	7790
75°	3719	6199	7514
80°	3192	5487	5656
85°	2566	3236	2566



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.1	3.3
10°-20°	720.9	9.5
20°-30°	1082.7	14.2
30°-40°	1291.3	17.0
40°-50°	1335.1	17.5
50°-60°	1227.4	16.1
60°-70°	977.2	12.8
70°-80°	597.0	7.8
80°-90°	129.8	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°	2055.7	27.0
0°-40°	3347.0	44.0
0°-60°	5909.5	77.6
0°-90°	7613.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7613.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2660	2660	2660	2660	2660	
5°	2631	2638	2656	2667	2670	249
15°	2486	2515	2562	2598	2609	700
25°	2219	2273	2363	2428	2450	1021
35°	1868	1948	2078	2186	2219	1166
45°	1471	1576	1749	1890	1937	1137
55°	1080	1200	1395	1554	1608	966
65°	705	824	1015	1156	1207	698
75°	358	462	596	701	723	381
85°	83	101	105	90	83	96
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2659.5	2659.5	2659.5	2659.5	2659.5
2.5°	2645.1	2648.7	2659.5	2666.8	2666.8
5°	2630.6	2637.9	2655.9	2666.8	2670.4
7.5°	2609.0	2619.8	2645.1	2659.5	2663.2
10°	2576.4	2590.9	2623.4	2645.1	2652.3
12.5°	2536.7	2558.4	2598.1	2627.0	2634.2
15°	2486.1	2515.0	2562.0	2598.1	2609.0
17.5°	2428.3	2464.4	2522.2	2565.6	2580.0
20°	2366.8	2403.0	2475.3	2525.8	2543.9
22.5°	2294.6	2341.6	2424.7	2482.5	2496.9
25°	2218.7	2272.9	2363.2	2428.3	2450.0
27.5°	2135.6	2200.6	2298.2	2377.7	2395.8
30°	2048.9	2117.5	2229.5	2316.3	2337.9
32.5°	1958.5	2038.0	2157.3	2254.8	2283.7
35°	1868.2	1947.7	2077.8	2186.2	2218.7
37.5°	1763.4	1857.3	2001.9	2113.9	2153.7
40°	1673.1	1763.4	1918.8	2041.6	2081.4
42.5°	1571.9	1669.4	1832.1	1965.7	2012.7
45°	1470.7	1575.5	1748.9	1889.9	1936.8
47.5°	1376.7	1481.5	1662.2	1810.4	1857.3
50°	1279.2	1387.6	1575.5	1727.3	1774.2
52.5°	1174.4	1293.6	1488.8	1640.5	1694.7
55°	1080.4	1199.7	1394.8	1553.8	1608.0
57.5°	982.9	1105.7	1308.1	1459.9	1510.4
60°	892.5	1011.8	1210.5	1358.7	1416.5
62.5°	795.0	917.8	1113.0	1257.5	1311.7
65°	704.6	823.9	1015.4	1156.3	1206.9
67.5°	614.3	733.5	914.2	1047.9	1105.7
70°	524.0	643.2	809.4	939.5	990.1
72.5°	444.5	549.3	708.2	827.5	874.5
75°	357.7	462.5	596.2	701.0	722.7
77.5°	278.2	372.2	484.2	531.2	538.4
80°	206.0	278.2	354.1	365.0	365.0
82.5°	137.3	191.5	220.4	224.0	220.4
85°	83.1	101.2	104.8	90.3	83.1
87.5°	28.9	28.9	18.1	10.8	3.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)