

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: P388568

Luminaire Tested: **22CZ2-95VHE-UNV-L950-CD1-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: P388568  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-27)  
Test Lab: INNOVATIONS CENTER(G3)  
Issue Date: 2/28/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ2-95VHE-UNV-L950-CD1-U  
Description: 2x2 CRUZE LED TROFFER WITH 5000K, 90 LEDS, AND RIBBED LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

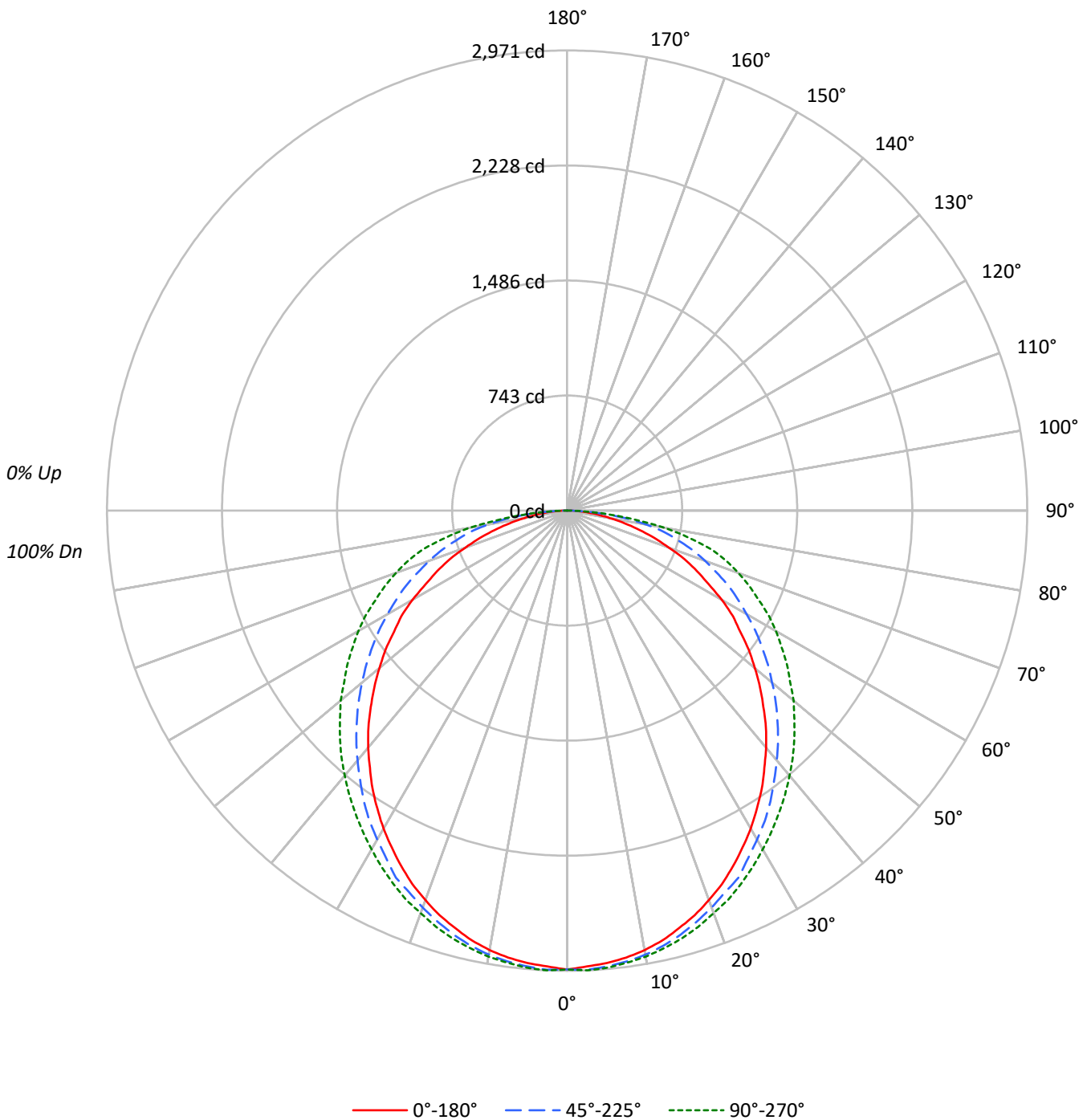
Lumens per Lamp: N/A  
Luminaire Lumens: 8713.4 lumens  
Efficiency: N/A  
Efficacy: 119.9 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

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	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	86	84	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68
3	89	78	69	63	86	76	68	62	73	66	61	70	65	60	68	63	59	56
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	44	41
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	7973	7973	7973
5°	7922	7980	8003
10°	7873	7955	7990
15°	7776	7896	7967
20°	7661	7809	7920
25°	7524	7766	7893
30°	7367	7621	7847
35°	7198	7522	7831
40°	7019	7395	7847
45°	6820	7310	7897
50°	6623	7234	7988
55°	6396	7202	8127
60°	6208	7199	8376
65°	5897	7317	8681
70°	5499	7456	9243
75°	5037	7713	9985
80°	4386	8040	9834
85°	3838	7148	7812



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	280.2	3.2
10°-20°	798.1	9.2
20°-30°	1198.1	13.7
30°-40°	1431.6	16.4
40°-50°	1488.6	17.1
50°-60°	1379.7	15.8
60°-70°	1131.7	13.0
70°-80°	765.0	8.8
80°-90°	240.4	2.8
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°	2276.3	26.1
0°-40°	3707.9	42.6
0°-60°	6576.2	75.5
0°-90°	8713.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8713.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2963	2963	2963	2963	2963	
5°	2933	2937	2954	2958	2963	278
15°	2791	2804	2834	2851	2860	787
25°	2534	2555	2615	2645	2658	1167
35°	2191	2221	2290	2358	2384	1369
45°	1792	1826	1921	2032	2075	1384
55°	1363	1406	1535	1672	1732	1225
65°	926	978	1149	1299	1363	915
75°	484	566	742	892	960	514
85°	124	172	232	257	253	141
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2962.7	2962.7	2962.7	2962.7	2962.7
2.5°	2945.6	2954.1	2967.0	2971.3	2971.3
5°	2932.7	2937.0	2954.1	2958.4	2962.7
7.5°	2911.3	2919.8	2937.0	2941.3	2945.6
10°	2881.3	2889.8	2911.3	2919.8	2924.1
12.5°	2842.7	2851.2	2877.0	2889.8	2894.1
15°	2791.2	2804.1	2834.1	2851.2	2859.8
17.5°	2739.8	2752.6	2782.6	2808.4	2816.9
20°	2675.4	2705.5	2726.9	2761.2	2765.5
22.5°	2611.1	2628.3	2666.9	2701.2	2718.3
25°	2534.0	2555.4	2615.4	2645.4	2658.3
27.5°	2452.5	2482.5	2529.7	2576.8	2594.0
30°	2371.0	2392.5	2452.5	2508.2	2525.4
32.5°	2281.0	2311.0	2375.3	2431.1	2456.8
35°	2191.0	2221.0	2289.6	2358.2	2383.9
37.5°	2092.3	2126.6	2195.2	2276.7	2311.0
40°	1998.0	2023.7	2105.2	2203.8	2233.8
42.5°	1899.4	1929.4	2015.2	2122.4	2156.7
45°	1792.2	1826.5	1920.8	2032.3	2075.2
47.5°	1689.3	1723.6	1826.5	1938.0	1989.4
50°	1582.1	1625.0	1727.9	1856.5	1908.0
52.5°	1479.2	1517.8	1633.6	1766.5	1813.6
55°	1363.4	1406.3	1535.0	1672.2	1732.2
57.5°	1269.1	1299.1	1440.6	1582.1	1642.1
60°	1153.4	1191.9	1337.7	1487.8	1556.4
62.5°	1029.0	1093.3	1243.4	1397.8	1466.4
65°	926.1	977.6	1149.1	1299.1	1363.4
67.5°	818.9	874.7	1041.9	1200.5	1273.4
70°	698.9	771.8	947.6	1106.2	1174.8
72.5°	591.7	668.9	848.9	1003.3	1076.2
75°	484.5	566.0	741.8	891.8	960.4
77.5°	381.6	471.6	643.1	758.9	801.8
80°	283.0	368.7	518.8	600.3	634.6
82.5°	197.2	270.1	381.6	424.5	433.0
85°	124.3	171.5	231.5	257.3	253.0
87.5°	55.7	68.6	85.8	94.3	90.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)