

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: P388566

Luminaire Tested: **22CZ2-95VHE-UNV-L950-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: P388566  
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-SDWPD1-U  
Description: 2x2 CRUZE LED TROFFER WITH 5000K, 90 LEDS, AND RIBBED LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

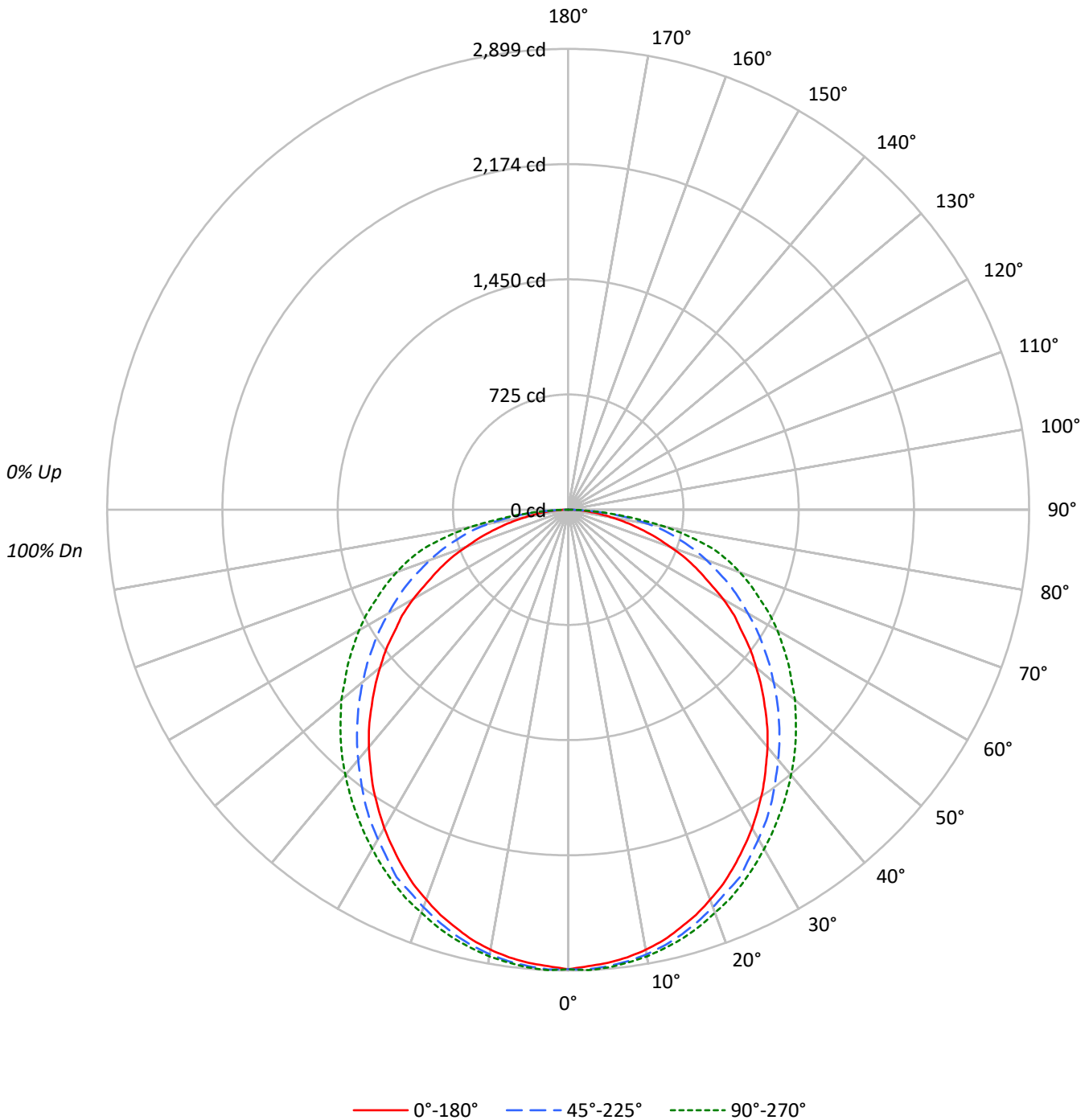
Lumens per Lamp: N/A  
Luminaire Lumens: 8501.6 lumens  
Efficiency: N/A  
Efficacy: 116.9 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 72.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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



TEST NUMBER: P388566

CATALOG NUMBER: 22CZ2-95VHE-UNV-L950-CD1-SDWPD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P388566

CATALOG NUMBER: 22CZ2-95VHE-UNV-L950-CD1-SDWPD1-U

**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°	7779	7779	7779
5°	7729	7786	7809
10°	7682	7762	7796
15°	7587	7704	7774
20°	7475	7619	7727
25°	7341	7577	7701
30°	7188	7435	7656
35°	7023	7339	7641
40°	6848	7215	7656
45°	6655	7132	7705
50°	6463	7058	7793
55°	6241	7026	7929
60°	6056	7025	8173
65°	5754	7138	8471
70°	5365	7274	9018
75°	4915	7524	9743
80°	4279	7844	9594
85°	3745	6975	7620



TEST NUMBER: P388566

CATALOG NUMBER: 22CZ2-95VHE-UNV-L950-CD1-SDWPD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	273.4	3.2
10°-20°	778.7	9.2
20°-30°	1168.9	13.7
30°-40°	1396.8	16.4
40°-50°	1452.4	17.1
50°-60°	1346.2	15.8
60°-70°	1104.2	13.0
70°-80°	746.4	8.8
80°-90°	234.6	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°	2221.0	26.1
0°-40°	3617.8	42.6
0°-60°	6416.4	75.5
0°-90°	8501.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8501.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2891	2891	2891	2891	2891	
5°	2861	2866	2882	2886	2891	272
15°	2723	2736	2765	2782	2790	768
25°	2472	2493	2552	2581	2594	1139
35°	2138	2167	2234	2301	2326	1336
45°	1749	1782	1874	1983	2025	1350
55°	1330	1372	1498	1632	1690	1196
65°	904	954	1121	1268	1330	893
75°	473	552	724	870	937	501
85°	121	167	226	251	247	138
90°	0	0	0	0	0	



TEST NUMBER: P388566

CATALOG NUMBER: 22CZ2-95VHE-UNV-L950-CD1-SDWPD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2890.7	2890.7	2890.7	2890.7	2890.7
2.5°	2874.0	2882.3	2894.9	2899.1	2899.1
5°	2861.4	2865.6	2882.3	2886.5	2890.7
7.5°	2840.5	2848.9	2865.6	2869.8	2874.0
10°	2811.2	2819.6	2840.5	2848.9	2853.1
12.5°	2773.6	2781.9	2807.0	2819.6	2823.8
15°	2723.4	2735.9	2765.2	2781.9	2790.3
17.5°	2673.2	2685.7	2715.0	2740.1	2748.5
20°	2610.4	2639.7	2660.6	2694.1	2698.3
22.5°	2547.7	2564.4	2602.0	2635.5	2652.2
25°	2472.4	2493.3	2551.8	2581.1	2593.7
27.5°	2392.9	2422.2	2468.2	2514.2	2530.9
30°	2313.4	2334.3	2392.9	2447.3	2464.0
32.5°	2225.5	2254.8	2317.6	2372.0	2397.1
35°	2137.7	2167.0	2233.9	2300.8	2325.9
37.5°	2041.5	2074.9	2141.9	2221.4	2254.8
40°	1949.4	1974.5	2054.0	2150.2	2179.5
42.5°	1853.2	1882.5	1966.2	2070.8	2104.2
45°	1748.6	1782.1	1874.1	1982.9	2024.7
47.5°	1648.2	1681.7	1782.1	1890.9	1941.1
50°	1543.7	1585.5	1685.9	1811.4	1861.6
52.5°	1443.3	1480.9	1593.9	1723.5	1769.6
55°	1330.3	1372.1	1497.6	1631.5	1690.1
57.5°	1238.3	1267.6	1405.6	1543.7	1602.2
60°	1125.3	1163.0	1305.2	1451.6	1518.6
62.5°	1004.0	1066.8	1213.2	1363.8	1430.7
65°	903.6	953.8	1121.1	1267.6	1330.3
67.5°	799.0	853.4	1016.6	1171.3	1242.5
70°	681.9	753.0	924.5	1079.3	1146.2
72.5°	577.3	652.6	828.3	978.9	1050.0
75°	472.7	552.2	723.7	870.1	937.1
77.5°	372.3	460.2	627.5	740.5	782.3
80°	276.1	359.8	506.2	585.7	619.1
82.5°	192.4	263.6	372.3	414.2	422.5
85°	121.3	167.3	225.9	251.0	246.8
87.5°	54.4	66.9	83.7	92.0	87.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)