

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: P388472

Luminaire Tested: **22CZ2-75VHE-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: P388472  
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: 22CZ2-75VHE-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**

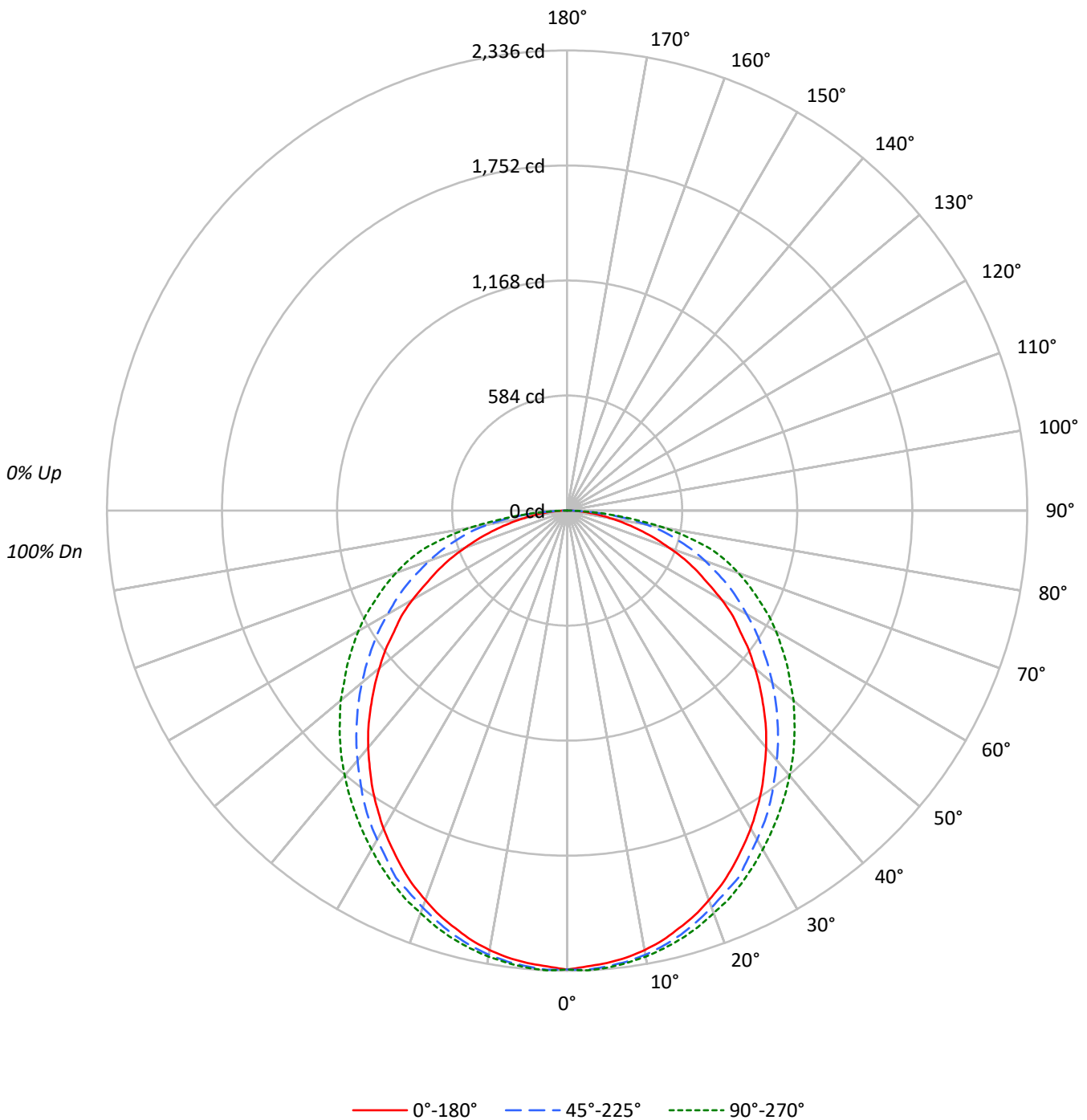
Lumens per Lamp: N/A  
Luminaire Lumens: 6852.0 lumens  
Efficiency: N/A  
Efficacy: 125.3 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 54.7  
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°	6269	6269	6269
5°	6230	6275	6293
10°	6191	6255	6283
15°	6115	6209	6265
20°	6025	6141	6228
25°	5916	6107	6207
30°	5794	5993	6171
35°	5660	5915	6158
40°	5519	5815	6171
45°	5363	5748	6210
50°	5208	5689	6281
55°	5030	5663	6390
60°	4881	5662	6587
65°	4637	5754	6827
70°	4324	5862	7268
75°	3961	6065	7852
80°	3448	6323	7733
85°	3020	5622	6141



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	220.3	3.2
10°-20°	627.6	9.2
20°-30°	942.1	13.7
30°-40°	1125.8	16.4
40°-50°	1170.6	17.1
50°-60°	1085.0	15.8
60°-70°	890.0	13.0
70°-80°	601.6	8.8
80°-90°	189.0	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°	1790.0	26.1
0°-40°	2915.8	42.6
0°-60°	5171.4	75.5
0°-90°	6852.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6852.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2330	2330	2330	2330	2330	
5°	2306	2310	2323	2326	2330	219
15°	2195	2205	2229	2242	2249	619
25°	1993	2010	2057	2080	2090	918
35°	1723	1746	1800	1854	1875	1077
45°	1409	1436	1510	1598	1632	1088
55°	1072	1106	1207	1315	1362	964
65°	728	769	904	1022	1072	720
75°	381	445	583	701	755	404
85°	98	135	182	202	199	111
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2329.8	2329.8	2329.8	2329.8	2329.8
2.5°	2316.3	2323.1	2333.2	2336.5	2336.5
5°	2306.2	2309.6	2323.1	2326.4	2329.8
7.5°	2289.3	2296.1	2309.6	2312.9	2316.3
10°	2265.7	2272.5	2289.3	2296.1	2299.5
12.5°	2235.4	2242.1	2262.4	2272.5	2275.9
15°	2194.9	2205.1	2228.7	2242.1	2248.9
17.5°	2154.5	2164.6	2188.2	2208.4	2215.2
20°	2103.9	2127.5	2144.4	2171.3	2174.7
22.5°	2053.3	2066.8	2097.2	2124.1	2137.6
25°	1992.6	2009.5	2056.7	2080.3	2090.4
27.5°	1928.6	1952.2	1989.3	2026.4	2039.8
30°	1864.5	1881.4	1928.6	1972.4	1985.9
32.5°	1793.7	1817.3	1867.9	1911.7	1932.0
35°	1722.9	1746.5	1800.5	1854.4	1874.6
37.5°	1645.4	1672.3	1726.3	1790.3	1817.3
40°	1571.2	1591.4	1655.5	1733.0	1756.6
42.5°	1493.6	1517.2	1584.7	1669.0	1695.9
45°	1409.3	1436.3	1510.5	1598.2	1631.9
47.5°	1328.4	1355.4	1436.3	1524.0	1564.4
50°	1244.1	1277.9	1358.8	1459.9	1500.4
52.5°	1163.2	1193.6	1284.6	1389.1	1426.2
55°	1072.2	1105.9	1207.0	1314.9	1362.1
57.5°	998.0	1021.6	1132.9	1244.1	1291.3
60°	907.0	937.3	1052.0	1170.0	1223.9
62.5°	809.2	859.8	977.8	1099.2	1153.1
65°	728.3	768.7	903.6	1021.6	1072.2
67.5°	644.0	687.8	819.3	944.1	1001.4
70°	549.6	606.9	745.1	869.9	923.8
72.5°	465.3	526.0	667.6	789.0	846.3
75°	381.0	445.1	583.3	701.3	755.2
77.5°	300.1	370.9	505.7	596.8	630.5
80°	222.5	290.0	408.0	472.0	499.0
82.5°	155.1	212.4	300.1	333.8	340.5
85°	97.8	134.9	182.1	202.3	198.9
87.5°	43.8	53.9	67.4	74.2	70.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)