

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: P390103

Luminaire Tested: **22CZ2-110VHE-RDP-UNV-L950-CD2-SWPD1-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: P390103
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-24)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 2/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-110VHE-RDP-UNV-L950-CD2-SWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 5000K, 90 LEDS, AND RDP LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6663.9 lumens
Efficiency: N/A
Efficacy: 76.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

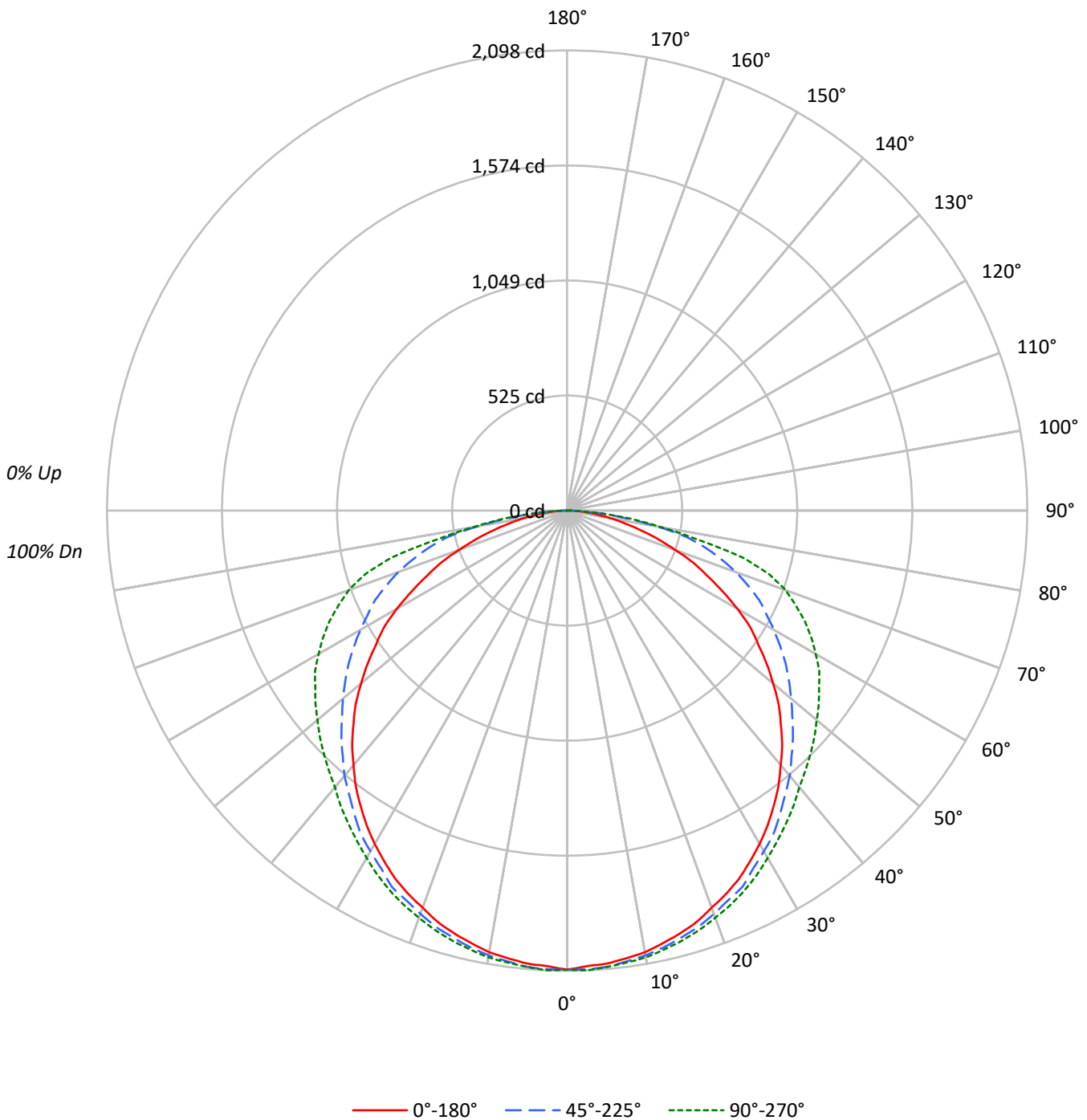
Input Watts (W): 87.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	92	96	92	89	92	89	86	88	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5633	5633	5633
5°	5601	5641	5641
10°	5586	5626	5653
15°	5558	5613	5654
20°	5517	5601	5657
25°	5502	5619	5677
30°	5453	5575	5682
35°	5395	5556	5717
40°	5321	5545	5786
45°	5242	5541	5970
50°	5131	5582	6219
55°	4991	5704	6578
60°	4828	5857	7044
65°	4495	6149	7616
70°	4127	6441	8331
75°	3619	6779	8614
80°	3115	6457	6761
85°	2723	4693	5147



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.0	3.0
10°-20°	568.5	8.5
20°-30°	867.4	13.0
30°-40°	1059.1	15.9
40°-50°	1132.4	17.0
50°-60°	1093.0	16.4
60°-70°	940.9	14.1
70°-80°	636.6	9.6
80°-90°	168.0	2.5
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°	1633.9	24.5
0°-40°	2693.0	40.4
0°-60°	4918.4	73.8
0°-90°	6663.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6663.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2093	2093	2093	2093	2093	
5°	2074	2078	2088	2088	2088	197
15°	1995	2000	2015	2025	2030	563
25°	1853	1863	1892	1902	1912	853
35°	1642	1657	1691	1726	1740	1028
45°	1378	1402	1456	1530	1569	1063
55°	1064	1098	1216	1338	1402	953
65°	706	775	966	1118	1196	702
75°	348	461	652	784	828	373
85°	88	123	152	157	167	99
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2093.2	2093.2	2093.2	2093.2	2093.2
2.5°	2078.5	2083.4	2093.2	2093.2	2098.1
5°	2073.6	2078.5	2088.3	2088.3	2088.3
7.5°	2058.9	2063.8	2073.6	2078.5	2078.5
10°	2044.2	2049.1	2058.9	2063.8	2068.7
12.5°	2019.7	2024.6	2039.3	2049.1	2049.1
15°	1995.2	2000.1	2014.8	2024.6	2029.5
17.5°	1965.8	1975.6	1990.3	2000.1	2005.0
20°	1926.6	1936.4	1956.0	1970.7	1975.6
22.5°	1892.3	1902.1	1921.7	1936.4	1946.2
25°	1853.0	1862.8	1892.3	1902.1	1911.9
27.5°	1804.0	1813.8	1838.3	1857.9	1872.6
30°	1755.0	1764.8	1794.2	1818.7	1828.5
32.5°	1701.1	1715.8	1750.1	1769.7	1784.4
35°	1642.2	1656.9	1691.3	1725.6	1740.3
37.5°	1583.4	1598.1	1632.4	1676.6	1696.2
40°	1514.8	1534.4	1578.5	1637.3	1647.1
42.5°	1451.1	1475.6	1514.8	1583.4	1607.9
45°	1377.5	1402.0	1456.0	1529.5	1568.7
47.5°	1308.9	1333.4	1392.2	1480.5	1529.5
50°	1225.6	1259.9	1333.4	1436.3	1485.4
52.5°	1147.1	1176.5	1274.6	1387.3	1446.2
55°	1063.8	1098.1	1215.8	1338.3	1402.0
57.5°	990.2	1019.7	1152.0	1289.3	1362.8
60°	897.1	936.3	1088.3	1235.4	1308.9
62.5°	799.1	857.9	1024.6	1176.5	1255.0
65°	705.9	774.6	965.7	1117.7	1196.1
67.5°	622.6	696.1	892.2	1054.0	1127.5
70°	524.5	617.7	818.7	975.5	1058.9
72.5°	436.3	539.2	735.3	892.2	965.7
75°	348.1	460.8	652.0	784.4	828.5
77.5°	269.6	377.5	558.9	598.1	603.0
80°	201.0	299.0	416.7	421.6	436.3
82.5°	137.3	210.8	269.6	294.1	299.0
85°	88.2	122.6	152.0	156.9	166.7
87.5°	39.2	44.1	53.9	49.0	49.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)