

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: P390055

Luminaire Tested: **22CZ2-100VHE-RDP-UNV-L950-CD1-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: P390055  
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: 22CZ2-100VHE-RDP-UNV-L950-CD1-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**

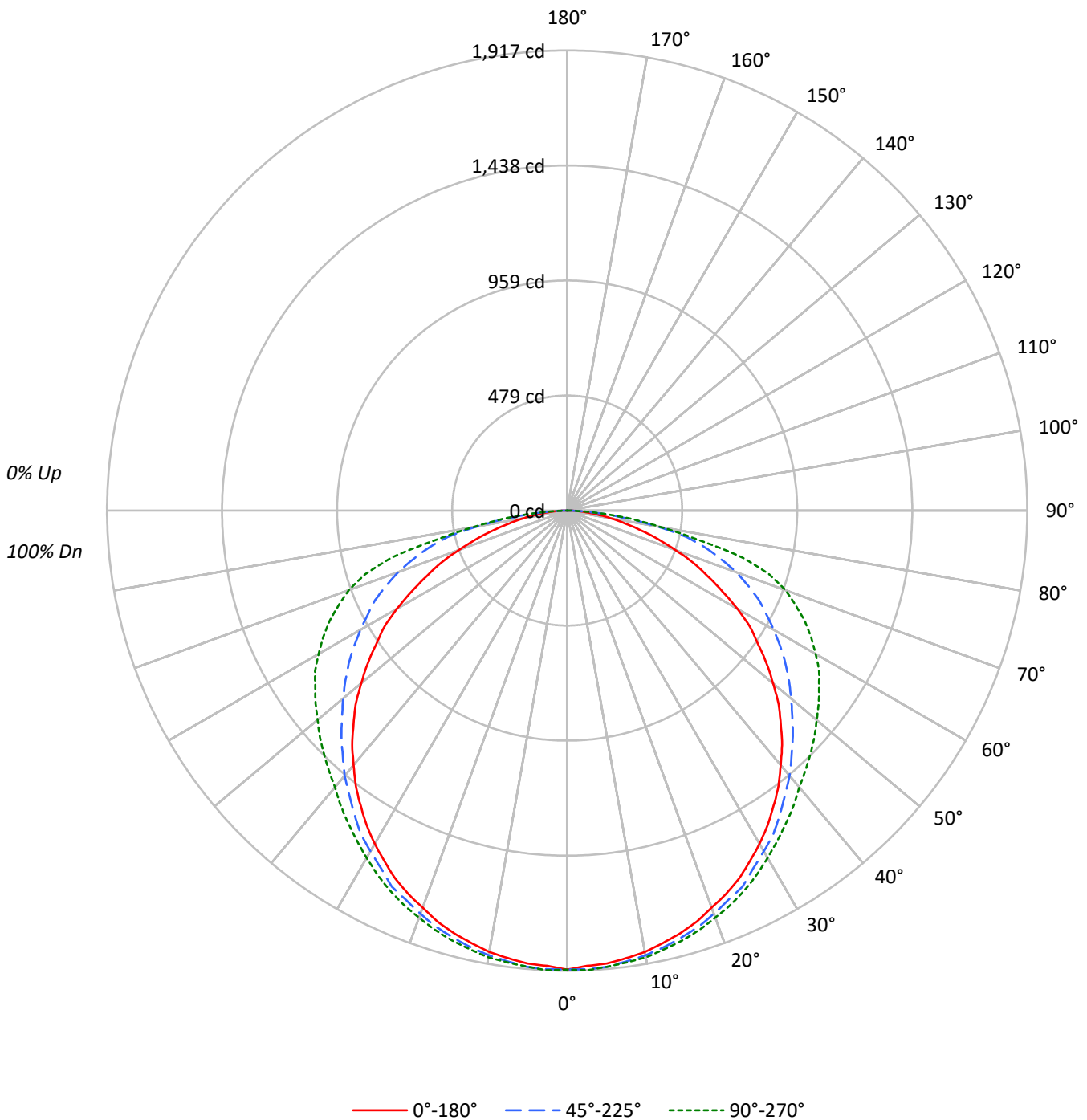
Lumens per Lamp: N/A  
Luminaire Lumens: 6087.6 lumens  
Efficiency: N/A  
Efficacy: 78.3 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 77.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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°	5146	5146	5146
5°	5117	5153	5153
10°	5103	5140	5164
15°	5078	5128	5165
20°	5040	5117	5168
25°	5026	5133	5186
30°	4982	5093	5190
35°	4928	5075	5223
40°	4861	5065	5286
45°	4789	5061	5453
50°	4687	5099	5681
55°	4559	5210	6009
60°	4411	5351	6435
65°	4106	5617	6958
70°	3770	5884	7611
75°	3306	6193	7869
80°	2845	5900	6177
85°	2489	4286	4702



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	180.9	3.0
10°-20°	519.4	8.5
20°-30°	792.4	13.0
30°-40°	967.5	15.9
40°-50°	1034.5	17.0
50°-60°	998.5	16.4
60°-70°	859.5	14.1
70°-80°	581.5	9.6
80°-90°	153.5	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°	1492.6	24.5
0°-40°	2460.1	40.4
0°-60°	4493.1	73.8
0°-90°	6087.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6087.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1912	1912	1912	1912	1912	
5°	1894	1899	1908	1908	1908	180
15°	1823	1827	1841	1850	1854	514
25°	1693	1702	1729	1738	1746	779
35°	1500	1514	1545	1576	1590	939
45°	1258	1281	1330	1397	1433	971
55°	972	1003	1111	1223	1281	871
65°	645	708	882	1021	1093	641
75°	318	421	596	716	757	341
85°	81	112	139	143	152	91
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1912.2	1912.2	1912.2	1912.2	1912.2
2.5°	1898.8	1903.3	1912.2	1912.2	1916.7
5°	1894.3	1898.8	1907.7	1907.7	1907.7
7.5°	1880.9	1885.4	1894.3	1898.8	1898.8
10°	1867.4	1871.9	1880.9	1885.4	1889.8
12.5°	1845.0	1849.5	1863.0	1871.9	1871.9
15°	1822.7	1827.1	1840.6	1849.5	1854.0
17.5°	1795.8	1804.7	1818.2	1827.1	1831.6
20°	1760.0	1768.9	1786.8	1800.3	1804.7
22.5°	1728.6	1737.6	1755.5	1768.9	1777.9
25°	1692.8	1701.7	1728.6	1737.6	1746.5
27.5°	1648.0	1657.0	1679.4	1697.3	1710.7
30°	1603.2	1612.2	1639.0	1661.4	1670.4
32.5°	1554.0	1567.4	1598.7	1616.7	1630.1
35°	1500.2	1513.7	1545.0	1576.4	1589.8
37.5°	1446.5	1459.9	1491.3	1531.6	1549.5
40°	1383.8	1401.7	1442.0	1495.7	1504.7
42.5°	1325.6	1348.0	1383.8	1446.5	1468.9
45°	1258.4	1280.8	1330.0	1397.2	1433.0
47.5°	1195.7	1218.1	1271.8	1352.4	1397.2
50°	1119.6	1150.9	1218.1	1312.1	1356.9
52.5°	1047.9	1074.8	1164.4	1267.4	1321.1
55°	971.8	1003.1	1110.6	1222.6	1280.8
57.5°	904.6	931.5	1052.4	1177.8	1245.0
60°	819.5	855.3	994.2	1128.5	1195.7
62.5°	730.0	783.7	936.0	1074.8	1146.4
65°	644.9	707.6	882.2	1021.0	1092.7
67.5°	568.7	635.9	815.0	962.8	1030.0
70°	479.2	564.3	747.9	891.2	967.3
72.5°	398.6	492.6	671.7	815.0	882.2
75°	318.0	421.0	595.6	716.5	756.8
77.5°	246.3	344.8	510.5	546.3	550.8
80°	183.6	273.2	380.7	385.1	398.6
82.5°	125.4	192.6	246.3	268.7	273.2
85°	80.6	112.0	138.8	143.3	152.3
87.5°	35.8	40.3	49.3	44.8	44.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)