

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: P390872

Luminaire Tested: **22CZ2-95VHE-RDP-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: P390872  
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: 22CZ2-95VHE-RDP-UNV-L950-CD1-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: 5860.3 lumens  
Efficiency: N/A  
Efficacy: 80.6 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

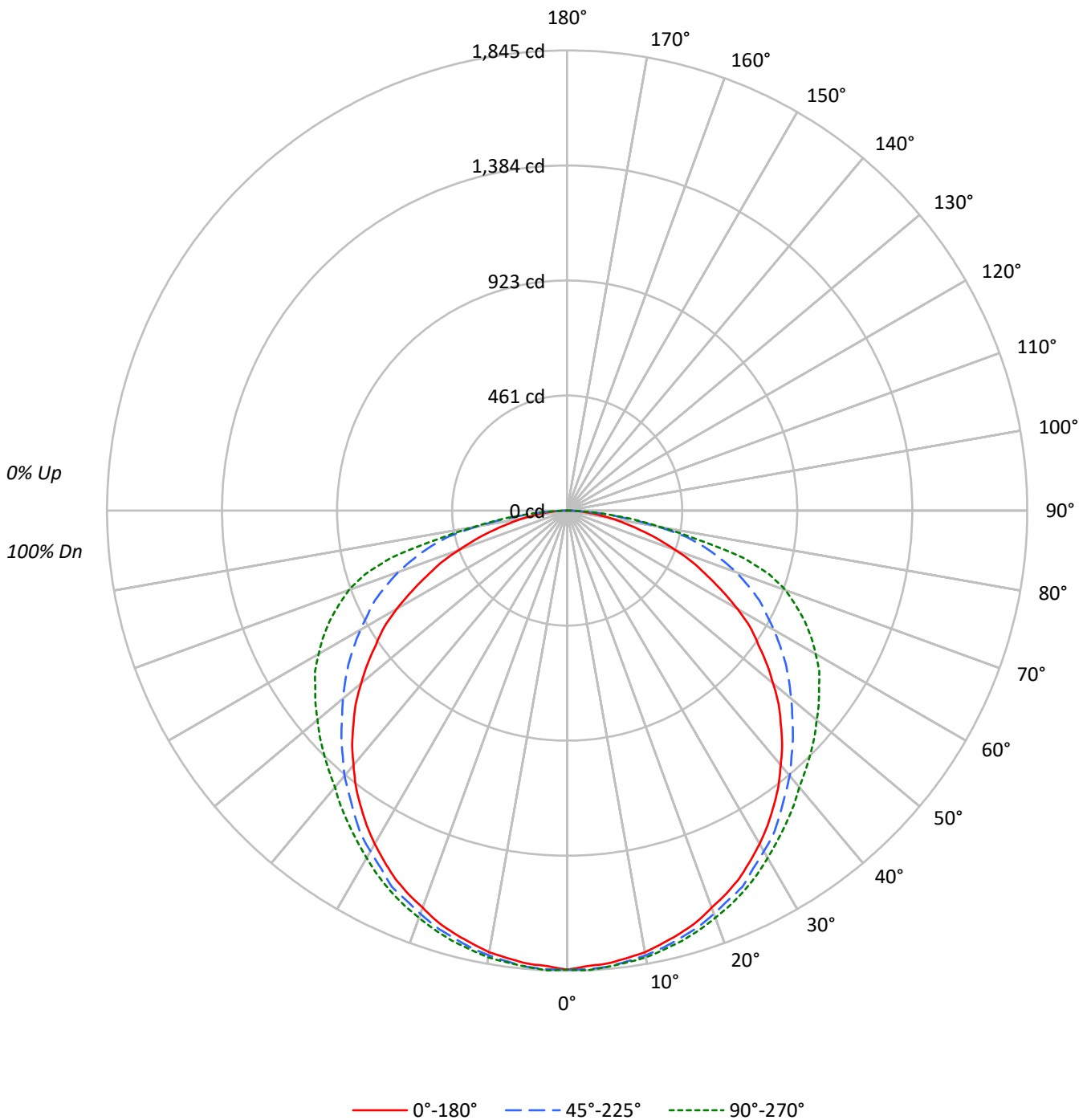
Input Watts (W): 72.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	108	103	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84	82					82			
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67					67			
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55					55			
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47					47			
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40					40			
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35					35			
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31					31			
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27					27			
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24					24			
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22					22			

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

	0°	45°	90°
0°	4954	4954	4954
5°	4926	4961	4961
10°	4912	4947	4971
15°	4888	4936	4972
20°	4852	4926	4975
25°	4839	4941	4992
30°	4796	4903	4996
35°	4744	4886	5027
40°	4679	4877	5088
45°	4610	4873	5250
50°	4512	4909	5469
55°	4389	5016	5785
60°	4246	5151	6195
65°	3953	5408	6698
70°	3629	5664	7327
75°	3183	5962	7575
80°	2740	5678	5946
85°	2396	4125	4526



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	174.1	3.0
10°-20°	500.0	8.5
20°-30°	762.8	13.0
30°-40°	931.4	15.9
40°-50°	995.9	17.0
50°-60°	961.2	16.4
60°-70°	827.4	14.1
70°-80°	559.8	9.6
80°-90°	147.7	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°	1436.9	24.5
0°-40°	2368.2	40.4
0°-60°	4325.3	73.8
0°-90°	5860.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5860.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1841	1841	1841	1841	1841	
5°	1824	1828	1836	1836	1836	173
15°	1755	1759	1772	1780	1785	495
25°	1630	1638	1664	1673	1681	750
35°	1444	1457	1487	1518	1530	904
45°	1211	1233	1280	1345	1380	935
55°	936	966	1069	1177	1233	838
65°	621	681	849	983	1052	617
75°	306	405	573	690	729	328
85°	78	108	134	138	147	87
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1840.8	1840.8	1840.8	1840.8	1840.8
2.5°	1827.9	1832.2	1840.8	1840.8	1845.1
5°	1823.6	1827.9	1836.5	1836.5	1836.5
7.5°	1810.6	1815.0	1823.6	1827.9	1827.9
10°	1797.7	1802.0	1810.6	1815.0	1819.3
12.5°	1776.2	1780.5	1793.4	1802.0	1802.0
15°	1754.6	1758.9	1771.8	1780.5	1784.8
17.5°	1728.7	1737.4	1750.3	1758.9	1763.2
20°	1694.2	1702.9	1720.1	1733.0	1737.4
22.5°	1664.1	1672.7	1689.9	1702.9	1711.5
25°	1629.6	1638.2	1664.1	1672.7	1681.3
27.5°	1586.5	1595.1	1616.6	1633.9	1646.8
30°	1543.4	1552.0	1577.8	1599.4	1608.0
32.5°	1495.9	1508.9	1539.0	1556.3	1569.2
35°	1444.2	1457.1	1487.3	1517.5	1530.4
37.5°	1392.5	1405.4	1435.6	1474.4	1491.6
40°	1332.1	1349.4	1388.2	1439.9	1448.5
42.5°	1276.1	1297.6	1332.1	1392.5	1414.0
45°	1211.4	1233.0	1280.4	1345.1	1379.5
47.5°	1151.1	1172.6	1224.3	1301.9	1345.1
50°	1077.8	1107.9	1172.6	1263.1	1306.3
52.5°	1008.8	1034.7	1120.9	1220.0	1271.8
55°	935.5	965.7	1069.1	1176.9	1233.0
57.5°	870.8	896.7	1013.1	1133.8	1198.5
60°	788.9	823.4	957.1	1086.4	1151.1
62.5°	702.7	754.4	901.0	1034.7	1103.6
65°	620.8	681.1	849.3	982.9	1051.9
67.5°	547.5	612.2	784.6	926.9	991.5
70°	461.3	543.2	719.9	857.9	931.2
72.5°	383.7	474.2	646.7	784.6	849.3
75°	306.1	405.2	573.4	689.8	728.6
77.5°	237.1	332.0	491.5	525.9	530.3
80°	176.8	263.0	366.4	370.8	383.7
82.5°	120.7	185.4	237.1	258.7	263.0
85°	77.6	107.8	133.6	138.0	146.6
87.5°	34.5	38.8	47.4	43.1	43.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)