

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: P389311

Luminaire Tested: **22CZ2-55VHE-S-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: P389311
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-23)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 2/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-55VHE-S-UNV-L950-CD1-SWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 5000K, 90 LEDS, AND SMOOTH LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5203.1 lumens
Efficiency: N/A
Efficacy: 132.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

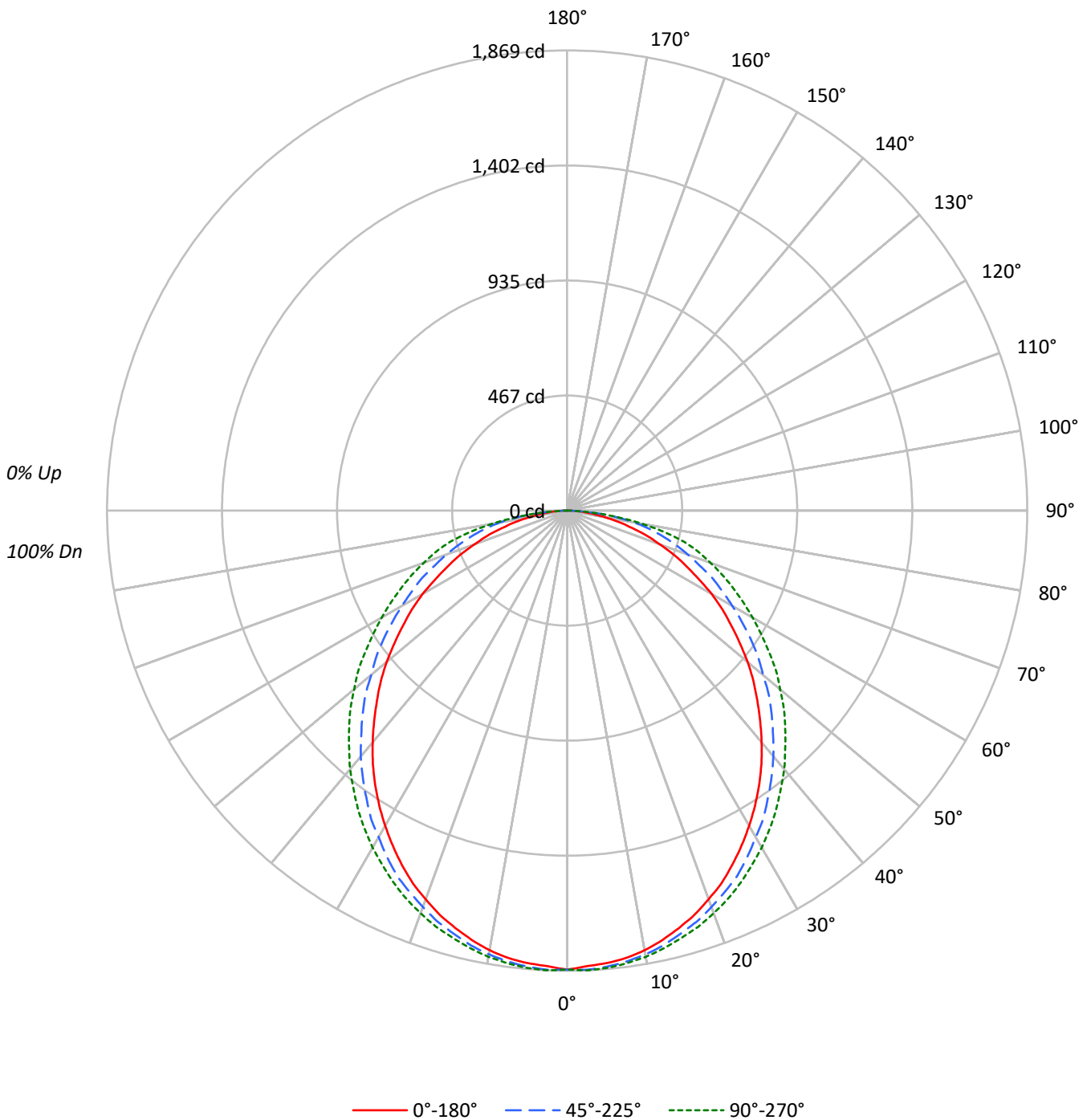
Input Watts (W): 39.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	51	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5017	5017	5017
5°	4984	5023	5036
10°	4955	5002	5028
15°	4890	4958	5005
20°	4811	4908	4985
25°	4714	4858	4952
30°	4594	4760	4911
35°	4466	4673	4865
40°	4315	4579	4818
45°	4157	4472	4767
50°	4004	4350	4726
55°	3816	4271	4693
60°	3645	4168	4677
65°	3401	4143	4730
70°	3132	4106	4870
75°	2827	4165	5124
80°	2445	4289	4815
85°	2022	3597	3597



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.3	3.4
10°-20°	501.8	9.6
20°-30°	750.8	14.4
30°-40°	889.1	17.1
40°-50°	906.1	17.4
50°-60°	812.1	15.6
60°-70°	635.8	12.2
70°-80°	410.0	7.9
80°-90°	121.1	2.3
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°	1428.8	27.5
0°-40°	2317.9	44.5
0°-60°	4036.2	77.6
0°-90°	5203.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5203.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1864	1864	1864	1864	1864	
5°	1845	1850	1860	1862	1864	175
15°	1755	1765	1780	1794	1796	495
25°	1588	1602	1636	1658	1668	731
35°	1360	1376	1423	1466	1481	850
45°	1092	1117	1175	1236	1253	844
55°	813	840	910	974	1000	729
65°	534	566	651	714	743	531
75°	272	313	401	468	493	292
85°	66	90	116	116	116	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1864.4	1864.4	1864.4	1864.4	1864.4
2.5°	1852.3	1857.1	1866.9	1869.3	1869.3
5°	1845.0	1849.9	1859.6	1862.0	1864.4
7.5°	1832.9	1835.3	1847.4	1852.3	1854.7
10°	1813.5	1818.3	1830.4	1837.7	1840.2
12.5°	1786.7	1794.0	1808.6	1818.3	1820.7
15°	1755.2	1764.9	1779.5	1794.0	1796.5
17.5°	1721.2	1730.9	1750.3	1767.3	1772.2
20°	1679.9	1692.1	1713.9	1733.3	1740.6
22.5°	1638.7	1648.4	1675.1	1699.4	1706.6
25°	1587.7	1602.2	1636.2	1658.1	1667.8
27.5°	1534.3	1551.3	1585.3	1614.4	1624.1
30°	1478.4	1495.4	1531.8	1568.3	1580.4
32.5°	1420.2	1439.6	1483.3	1519.7	1531.8
35°	1359.5	1376.5	1422.6	1466.3	1480.9
37.5°	1296.4	1310.9	1364.3	1410.5	1425.0
40°	1228.4	1247.8	1303.6	1357.1	1371.6
42.5°	1160.4	1182.3	1238.1	1296.4	1310.9
45°	1092.4	1116.7	1175.0	1235.7	1252.7
47.5°	1026.9	1046.3	1111.9	1170.1	1194.4
50°	956.5	975.9	1039.0	1104.6	1128.9
52.5°	883.7	910.4	978.3	1041.5	1070.6
55°	813.3	840.0	910.4	973.5	1000.2
57.5°	747.7	769.6	842.4	907.9	934.6
60°	677.3	696.7	774.4	844.8	869.1
62.5°	602.1	631.2	711.3	776.8	806.0
65°	534.1	565.6	650.6	713.7	742.9
67.5°	471.0	500.1	582.6	650.6	682.2
70°	398.1	437.0	521.9	589.9	619.0
72.5°	339.9	373.9	461.3	529.2	560.8
75°	271.9	313.2	400.6	468.5	492.8
77.5°	216.1	257.3	339.9	393.3	405.4
80°	157.8	199.1	276.8	303.5	310.7
82.5°	106.8	145.7	199.1	206.3	208.8
85°	65.5	89.8	116.5	116.5	116.5
87.5°	31.6	36.4	41.3	38.8	38.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)