

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: P390655

Luminaire Tested: **22CZ2-75VHE-HRP-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: P390655
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: 22CZ2-75VHE-HRP-UNV-L950-CD1-SWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 5000K, 90 LEDS, AND HRP LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5744.0 lumens
Efficiency: N/A
Efficacy: 105.0 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

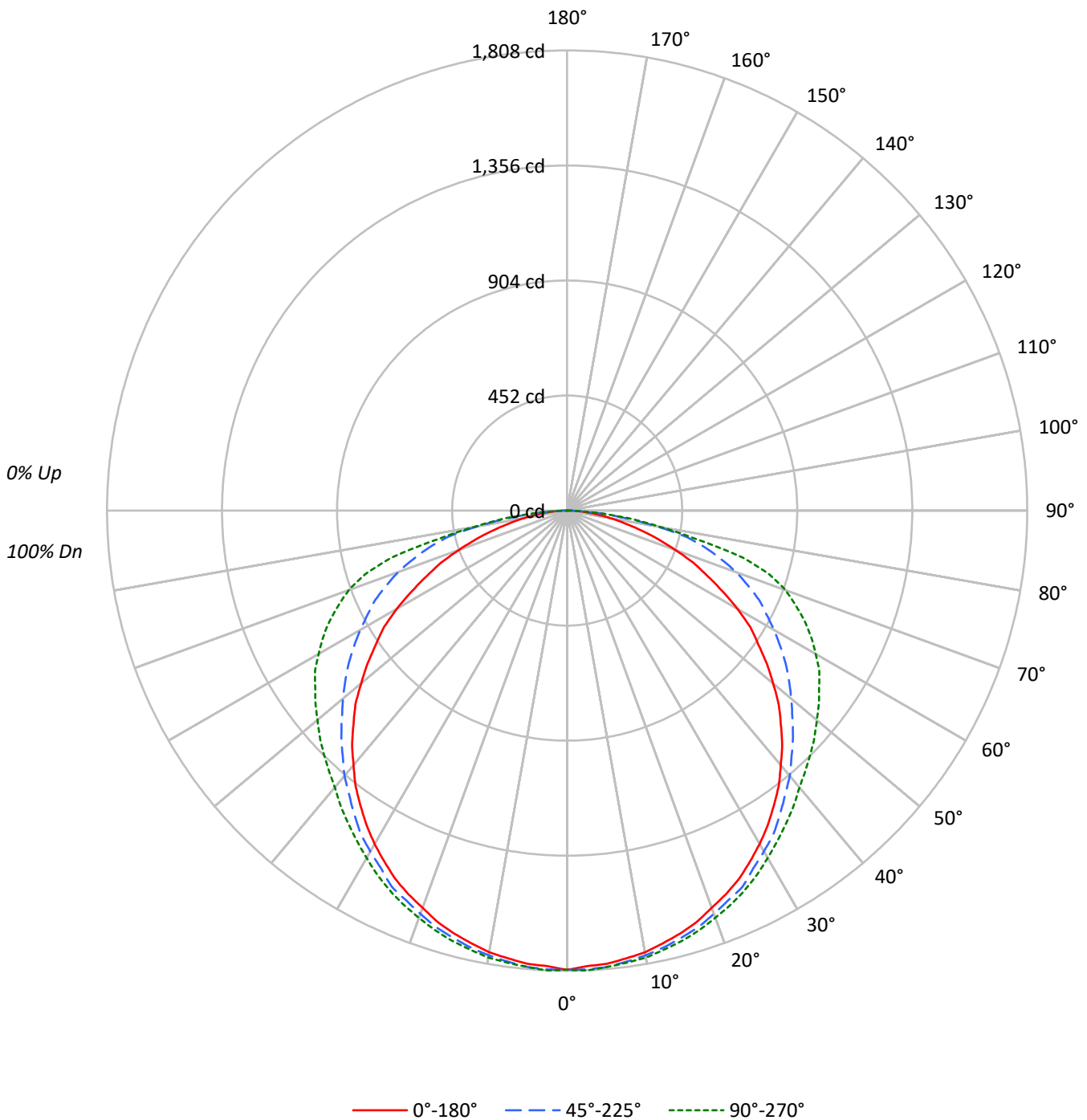
Input Watts (W): 54.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4855	4855	4855
5°	4828	4863	4863
10°	4815	4849	4873
15°	4791	4838	4874
20°	4755	4828	4877
25°	4742	4843	4893
30°	4700	4805	4897
35°	4650	4789	4928
40°	4587	4780	4988
45°	4519	4776	5146
50°	4423	4811	5360
55°	4302	4916	5670
60°	4162	5049	6072
65°	3875	5300	6565
70°	3557	5552	7181
75°	3119	5843	7425
80°	2684	5566	5828
85°	2350	4045	4437



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.7	3.0
10°-20°	490.0	8.5
20°-30°	747.6	13.0
30°-40°	912.9	15.9
40°-50°	976.1	17.0
50°-60°	942.1	16.4
60°-70°	811.0	14.1
70°-80°	548.7	9.6
80°-90°	144.8	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°	1408.4	24.5
0°-40°	2321.2	40.4
0°-60°	4239.5	73.8
0°-90°	5744.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5744.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1804	1804	1804	1804	1804	
5°	1787	1792	1800	1800	1800	170
15°	1720	1724	1737	1745	1749	485
25°	1597	1606	1631	1640	1648	735
35°	1416	1428	1458	1487	1500	886
45°	1187	1208	1255	1318	1352	917
55°	917	946	1048	1154	1208	822
65°	608	668	832	963	1031	605
75°	300	397	562	676	714	322
85°	76	106	131	135	144	86
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1804.3	1804.3	1804.3	1804.3	1804.3
2.5°	1791.6	1795.8	1804.3	1804.3	1808.5
5°	1787.4	1791.6	1800.1	1800.1	1800.1
7.5°	1774.7	1778.9	1787.4	1791.6	1791.6
10°	1762.0	1766.3	1774.7	1778.9	1783.2
12.5°	1740.9	1745.1	1757.8	1766.3	1766.3
15°	1719.8	1724.0	1736.7	1745.1	1749.4
17.5°	1694.4	1702.9	1715.6	1724.0	1728.2
20°	1660.6	1669.1	1686.0	1698.7	1702.9
22.5°	1631.0	1639.5	1656.4	1669.1	1677.5
25°	1597.2	1605.7	1631.0	1639.5	1647.9
27.5°	1555.0	1563.4	1584.6	1601.5	1614.1
30°	1512.7	1521.2	1546.5	1567.7	1576.1
32.5°	1466.3	1478.9	1508.5	1525.4	1538.1
35°	1415.5	1428.2	1457.8	1487.4	1500.1
37.5°	1364.8	1377.5	1407.1	1445.1	1462.0
40°	1305.7	1322.6	1360.6	1411.3	1419.8
42.5°	1250.7	1271.9	1305.7	1364.8	1386.0
45°	1187.4	1208.5	1255.0	1318.4	1352.2
47.5°	1128.2	1149.3	1200.0	1276.1	1318.4
50°	1056.4	1086.0	1149.3	1238.1	1280.3
52.5°	988.8	1014.1	1098.6	1195.8	1246.5
55°	916.9	946.5	1047.9	1153.6	1208.5
57.5°	853.6	878.9	993.0	1111.3	1174.7
60°	773.3	807.1	938.1	1064.8	1128.2
62.5°	688.8	739.5	883.1	1014.1	1081.7
65°	608.5	667.6	832.4	963.4	1031.0
67.5°	536.6	600.0	769.0	908.5	971.9
70°	452.1	532.4	705.7	840.9	912.7
72.5°	376.1	464.8	633.8	769.0	832.4
75°	300.0	397.2	562.0	676.1	714.1
77.5°	232.4	325.4	481.7	515.5	519.7
80°	173.2	257.8	359.2	363.4	376.1
82.5°	118.3	181.7	232.4	253.5	257.8
85°	76.1	105.6	131.0	135.2	143.7
87.5°	33.8	38.0	46.5	42.3	42.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)