

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: P389360

Luminaire Tested: **22CZ2-65VHE-S-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: P389360
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: 22CZ2-65VHE-S-UNV-L950-CD1-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: 6248.8 lumens
Efficiency: N/A
Efficacy: 130.5 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

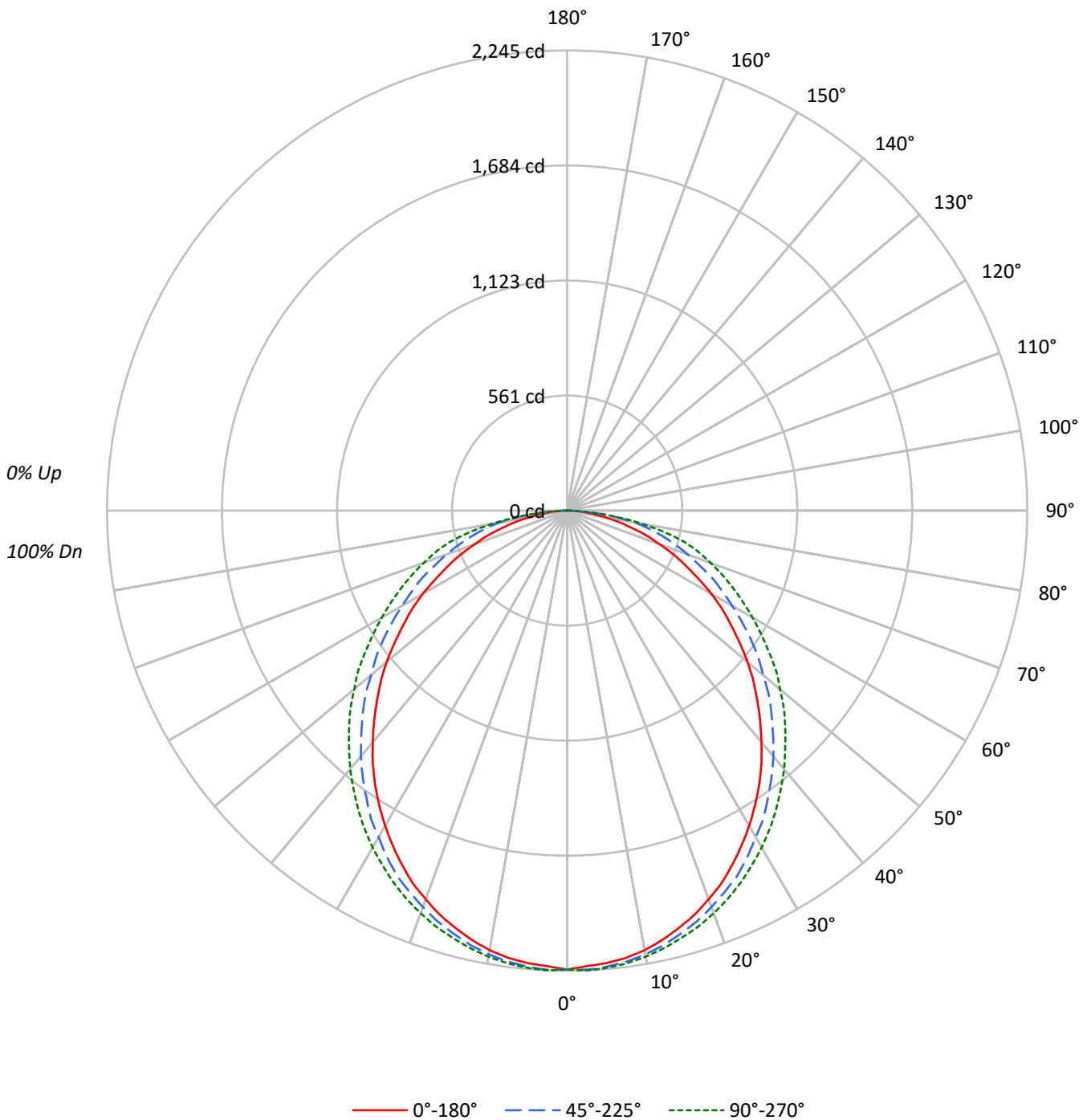
Input Watts (W): 47.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6025	6025	6025
5°	5985	6033	6048
10°	5951	6007	6039
15°	5872	5954	6011
20°	5778	5895	5986
25°	5662	5835	5947
30°	5517	5716	5898
35°	5364	5613	5843
40°	5182	5500	5787
45°	4993	5370	5725
50°	4809	5224	5676
55°	4582	5129	5636
60°	4378	5006	5618
65°	4084	4975	5681
70°	3762	4932	5850
75°	3395	5002	6154
80°	2937	5151	5783
85°	2430	4319	4319



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.7	3.4
10°-20°	602.6	9.6
20°-30°	901.7	14.4
30°-40°	1067.8	17.1
40°-50°	1088.2	17.4
50°-60°	975.3	15.6
60°-70°	763.6	12.2
70°-80°	492.4	7.9
80°-90°	145.4	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°	1716.0	27.5
0°-40°	2783.8	44.5
0°-60°	4847.3	77.6
0°-90°	6248.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6248.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2239	2239	2239	2239	2239	
5°	2216	2222	2233	2236	2239	210
15°	2108	2120	2137	2155	2158	594
25°	1907	1924	1965	1991	2003	878
35°	1633	1653	1708	1761	1778	1020
45°	1312	1341	1411	1484	1504	1013
55°	977	1009	1093	1169	1201	876
65°	641	679	781	857	892	637
75°	326	376	481	563	592	350
85°	79	108	140	140	140	92
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2239.1	2239.1	2239.1	2239.1	2239.1
2.5°	2224.6	2230.4	2242.1	2245.0	2245.0
5°	2215.8	2221.6	2233.3	2236.2	2239.1
7.5°	2201.2	2204.2	2218.7	2224.6	2227.5
10°	2177.9	2183.7	2198.3	2207.1	2210.0
12.5°	2145.8	2154.6	2172.1	2183.7	2186.7
15°	2107.9	2119.6	2137.1	2154.6	2157.5
17.5°	2067.1	2078.8	2102.1	2122.5	2128.3
20°	2017.6	2032.1	2058.4	2081.7	2090.4
22.5°	1968.0	1979.7	2011.7	2040.9	2049.6
25°	1906.8	1924.3	1965.1	1991.3	2003.0
27.5°	1842.6	1863.0	1903.9	1938.8	1950.5
30°	1775.6	1796.0	1839.7	1883.4	1898.0
32.5°	1705.6	1728.9	1781.4	1825.1	1839.7
35°	1632.7	1653.1	1708.5	1761.0	1778.5
37.5°	1556.9	1574.4	1638.5	1693.9	1711.4
40°	1475.3	1498.6	1565.6	1629.8	1647.3
42.5°	1393.6	1419.9	1486.9	1556.9	1574.4
45°	1312.0	1341.2	1411.1	1484.0	1504.4
47.5°	1233.3	1256.6	1335.3	1405.3	1434.4
50°	1148.7	1172.0	1247.9	1326.6	1355.7
52.5°	1061.3	1093.3	1175.0	1250.8	1285.8
55°	976.7	1008.8	1093.3	1169.1	1201.2
57.5°	898.0	924.2	1011.7	1090.4	1122.5
60°	813.4	836.8	930.1	1014.6	1043.8
62.5°	723.1	758.0	854.3	933.0	968.0
65°	641.4	679.3	781.4	857.2	892.2
67.5°	565.6	600.6	699.7	781.4	819.3
70°	478.1	524.8	626.8	708.5	743.5
72.5°	408.2	449.0	554.0	635.6	673.5
75°	326.5	376.1	481.1	562.7	591.9
77.5°	259.5	309.0	408.2	472.3	486.9
80°	189.5	239.1	332.4	364.4	373.2
82.5°	128.3	174.9	239.1	247.8	250.7
85°	78.7	107.9	139.9	139.9	139.9
87.5°	37.9	43.7	49.6	46.6	46.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)