

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: P388465

Luminaire Tested: **22CZ2-75VHE-UNV-L935-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: P388465
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-27)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 2/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-75VHE-UNV-L935-CD1-SWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 3500K, 90 LEDS, AND RIBBED LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6310.0 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

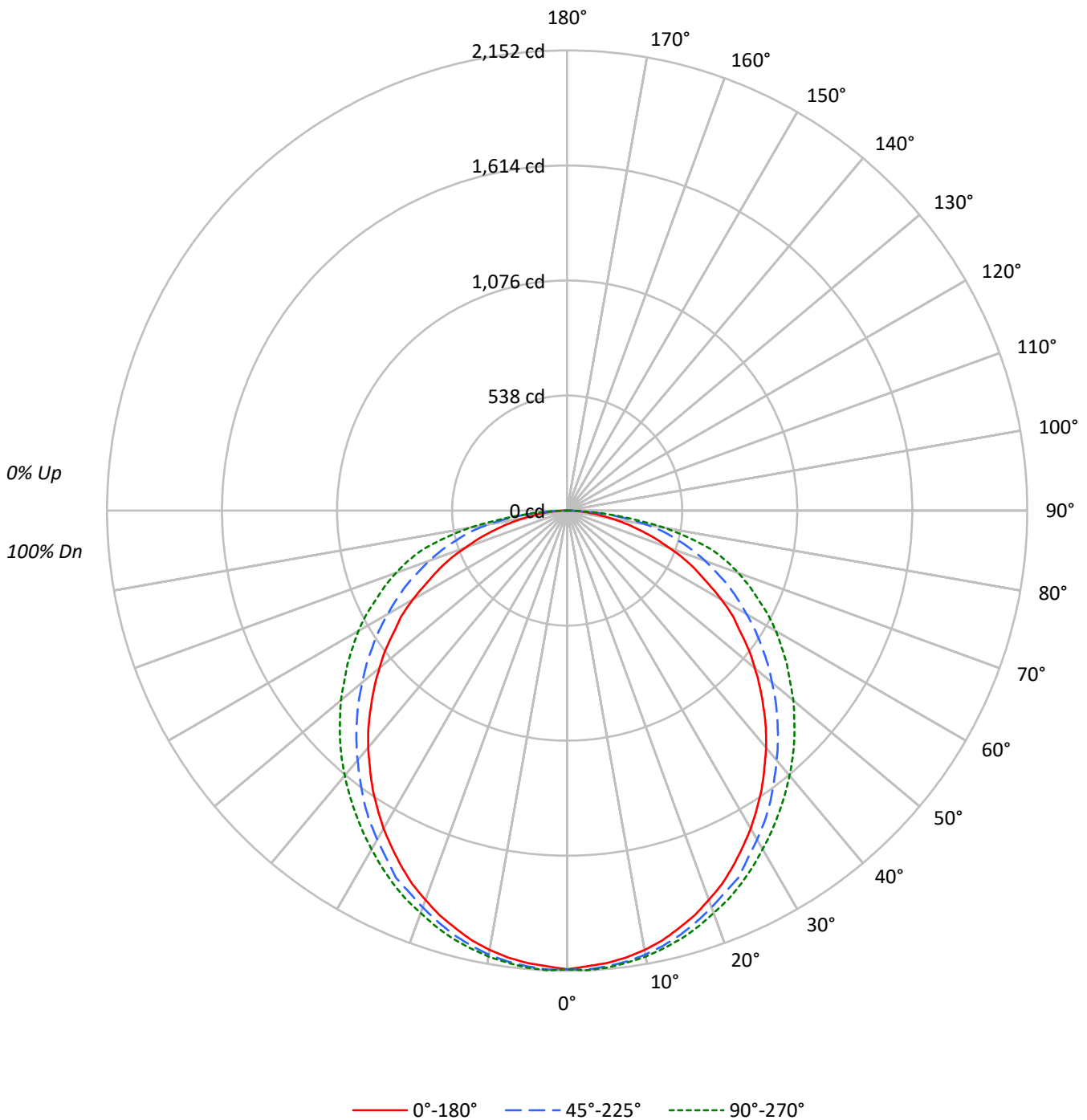
Input Watts (W): 54.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	96	93	96	93	90	92	90	87	89	86	84	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68
3	89	78	69	63	86	76	68	62	73	66	61	70	65	60	68	63	59	56
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	44	41
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5773	5773	5773
5°	5737	5779	5796
10°	5701	5761	5786
15°	5631	5718	5770
20°	5548	5655	5735
25°	5448	5624	5716
30°	5335	5519	5683
35°	5212	5447	5671
40°	5083	5355	5683
45°	4939	5294	5719
50°	4796	5238	5784
55°	4632	5215	5885
60°	4495	5214	6066
65°	4271	5298	6287
70°	3982	5399	6694
75°	3648	5585	7231
80°	3175	5822	7121
85°	2779	5178	5656



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.9	3.2
10°-20°	577.9	9.2
20°-30°	867.6	13.7
30°-40°	1036.7	16.4
40°-50°	1078.0	17.1
50°-60°	999.2	15.8
60°-70°	819.6	13.0
70°-80°	554.0	8.8
80°-90°	174.1	2.8
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°	1648.4	26.1
0°-40°	2685.2	42.6
0°-60°	4762.3	75.5
0°-90°	6310.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6310.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2146	2146	2146	2146	2146	
5°	2124	2127	2139	2142	2146	202
15°	2021	2031	2052	2065	2071	570
25°	1835	1850	1894	1916	1925	845
35°	1587	1608	1658	1708	1726	992
45°	1298	1323	1391	1472	1503	1002
55°	987	1018	1112	1211	1254	887
65°	671	708	832	941	987	663
75°	351	410	537	646	696	372
85°	90	124	168	186	183	102
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2145.5	2145.5	2145.5	2145.5	2145.5
2.5°	2133.1	2139.3	2148.6	2151.7	2151.7
5°	2123.8	2126.9	2139.3	2142.4	2145.5
7.5°	2108.3	2114.5	2126.9	2130.0	2133.1
10°	2086.5	2092.7	2108.3	2114.5	2117.6
12.5°	2058.6	2064.8	2083.4	2092.7	2095.8
15°	2021.3	2030.6	2052.4	2064.8	2071.0
17.5°	1984.1	1993.4	2015.1	2033.7	2039.9
20°	1937.5	1959.2	1974.7	1999.6	2002.7
22.5°	1890.9	1903.3	1931.3	1956.1	1968.5
25°	1835.0	1850.5	1894.0	1915.8	1925.1
27.5°	1776.0	1797.8	1831.9	1866.1	1878.5
30°	1717.0	1732.6	1776.0	1816.4	1828.8
32.5°	1651.8	1673.6	1720.1	1760.5	1779.1
35°	1586.6	1608.4	1658.0	1707.7	1726.3
37.5°	1515.2	1540.1	1589.7	1648.7	1673.6
40°	1446.9	1465.5	1524.5	1595.9	1617.7
42.5°	1375.5	1397.2	1459.3	1536.9	1561.8
45°	1297.9	1322.7	1391.0	1471.7	1502.8
47.5°	1223.3	1248.2	1322.7	1403.4	1440.7
50°	1145.7	1176.8	1251.3	1344.4	1381.7
52.5°	1071.2	1099.2	1183.0	1279.2	1313.4
55°	987.4	1018.4	1111.6	1210.9	1254.4
57.5°	919.1	940.8	1043.3	1145.7	1189.2
60°	835.2	863.2	968.7	1077.4	1127.1
62.5°	745.2	791.8	900.4	1012.2	1061.9
65°	670.7	707.9	832.1	940.8	987.4
67.5°	593.0	633.4	754.5	869.4	922.2
70°	506.1	558.9	686.2	801.1	850.8
72.5°	428.5	484.4	614.8	726.6	779.3
75°	350.9	409.9	537.2	645.8	695.5
77.5°	276.3	341.5	465.7	549.6	580.6
80°	204.9	267.0	375.7	434.7	459.5
82.5°	142.8	195.6	276.3	307.4	313.6
85°	90.0	124.2	167.7	186.3	183.2
87.5°	40.4	49.7	62.1	68.3	65.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)