

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: P389400

Luminaire Tested: **22CZ2-75VHE-S-UNV-L935-CD1-SDWPD1-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: P389400
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: 22CZ2-75VHE-S-UNV-L935-CD1-SDWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 3500K, 90 LEDS, AND SMOOTH LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6550.2 lumens
Efficiency: N/A
Efficacy: 119.7 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

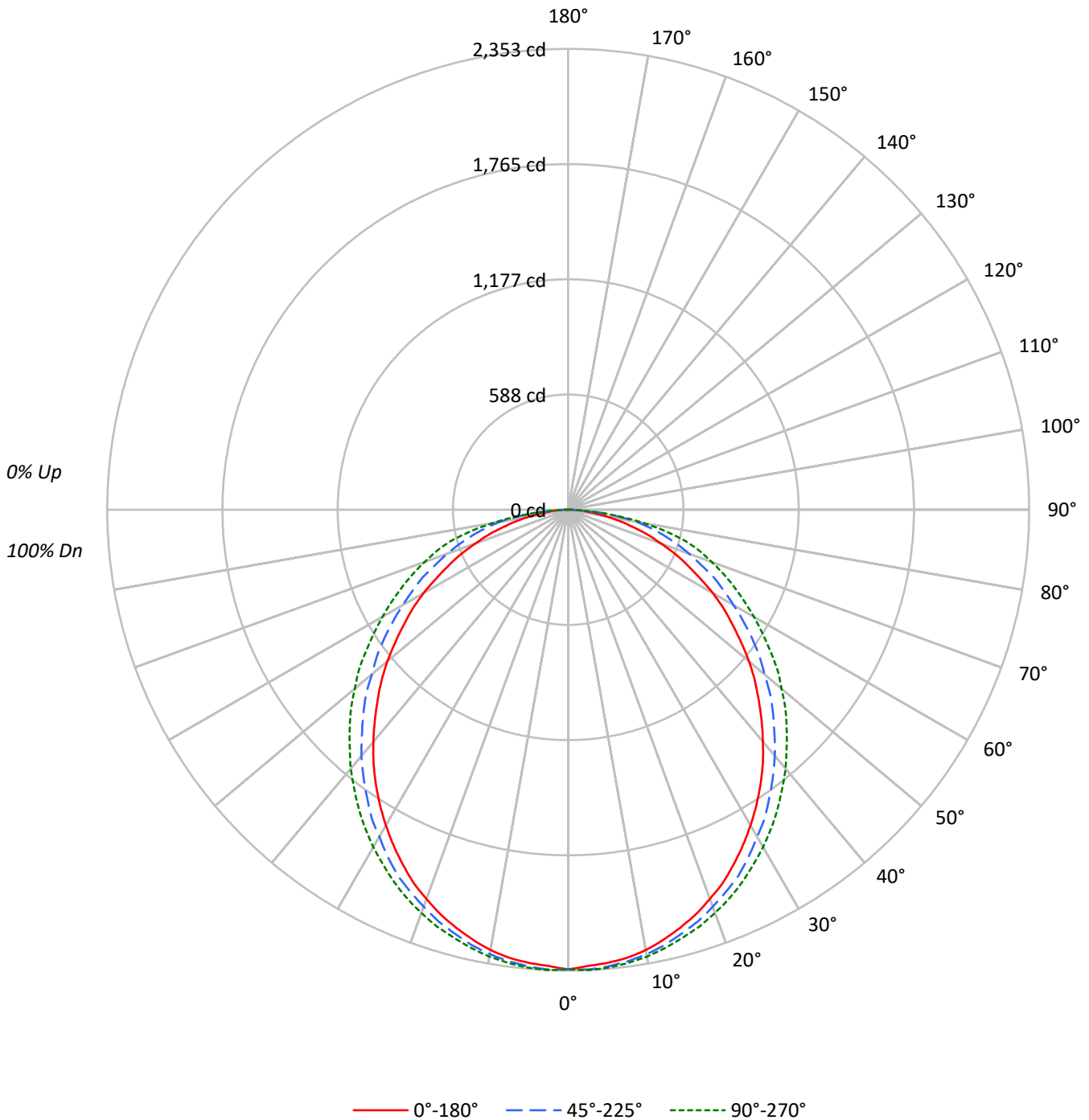
Input Watts (W): 54.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	6316	6316	6316
5°	6274	6324	6340
10°	6238	6297	6330
15°	6156	6241	6301
20°	6056	6179	6275
25°	5934	6116	6234
30°	5783	5992	6182
35°	5622	5883	6124
40°	5432	5765	6066
45°	5234	5629	6001
50°	5041	5476	5949
55°	4803	5377	5907
60°	4589	5247	5888
65°	4281	5216	5955
70°	3943	5170	6131
75°	3559	5243	6450
80°	3079	5399	6062
85°	2547	4529	4529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.0	3.4
10°-20°	631.7	9.6
20°-30°	945.2	14.4
30°-40°	1119.3	17.1
40°-50°	1140.7	17.4
50°-60°	1022.4	15.6
60°-70°	800.4	12.2
70°-80°	516.2	7.9
80°-90°	152.5	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°	1798.8	27.5
0°-40°	2918.1	44.5
0°-60°	5081.1	77.6
0°-90°	6550.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6550.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2347	2347	2347	2347	2347	
5°	2323	2329	2341	2344	2347	221
15°	2210	2222	2240	2258	2262	623
25°	1999	2017	2060	2087	2100	920
35°	1712	1733	1791	1846	1864	1070
45°	1375	1406	1479	1556	1577	1062
55°	1024	1057	1146	1226	1259	918
65°	672	712	819	898	935	668
75°	342	394	504	590	620	367
85°	82	113	147	147	147	97
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2347.1	2347.1	2347.1	2347.1	2347.1
2.5°	2331.9	2338.0	2350.2	2353.3	2353.3
5°	2322.7	2328.8	2341.0	2344.1	2347.1
7.5°	2307.4	2310.5	2325.7	2331.9	2334.9
10°	2283.0	2289.1	2304.4	2313.5	2316.6
12.5°	2249.3	2258.5	2276.8	2289.1	2292.1
15°	2209.6	2221.8	2240.2	2258.5	2261.6
17.5°	2166.8	2179.1	2203.5	2224.9	2231.0
20°	2114.9	2130.2	2157.7	2182.1	2191.3
22.5°	2062.9	2075.1	2108.8	2139.3	2148.5
25°	1998.7	2017.1	2059.9	2087.4	2099.6
27.5°	1931.5	1952.9	1995.7	2032.4	2044.6
30°	1861.2	1882.6	1928.4	1974.3	1989.6
32.5°	1787.9	1812.3	1867.3	1913.2	1928.4
35°	1711.5	1732.9	1790.9	1845.9	1864.3
37.5°	1632.0	1650.3	1717.6	1775.6	1794.0
40°	1546.4	1570.9	1641.2	1708.4	1726.7
42.5°	1460.9	1488.4	1558.6	1632.0	1650.3
45°	1375.3	1405.8	1479.2	1555.6	1577.0
47.5°	1292.8	1317.2	1399.7	1473.1	1503.6
50°	1204.1	1228.6	1308.0	1390.6	1421.1
52.5°	1112.4	1146.1	1231.6	1311.1	1347.8
55°	1023.8	1057.4	1146.1	1225.5	1259.1
57.5°	941.3	968.8	1060.5	1143.0	1176.6
60°	852.7	877.1	974.9	1063.5	1094.1
62.5°	757.9	794.6	895.5	978.0	1014.6
65°	672.4	712.1	819.1	898.5	935.2
67.5°	592.9	629.6	733.5	819.1	858.8
70°	501.2	550.1	657.1	742.7	779.3
72.5°	427.9	470.7	580.7	666.2	706.0
75°	342.3	394.2	504.3	589.8	620.4
77.5°	272.0	324.0	427.9	495.1	510.4
80°	198.7	250.6	348.4	382.0	391.2
82.5°	134.5	183.4	250.6	259.8	262.8
85°	82.5	113.1	146.7	146.7	146.7
87.5°	39.7	45.8	52.0	48.9	48.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)