

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: P389398

Luminaire Tested: **22CZ2-75VHE-S-UNV-L930-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: P389398
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-L930-CD1-SWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 3000K, 90 LEDS, AND SMOOTH LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6470.1 lumens
Efficiency: N/A
Efficacy: 118.3 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

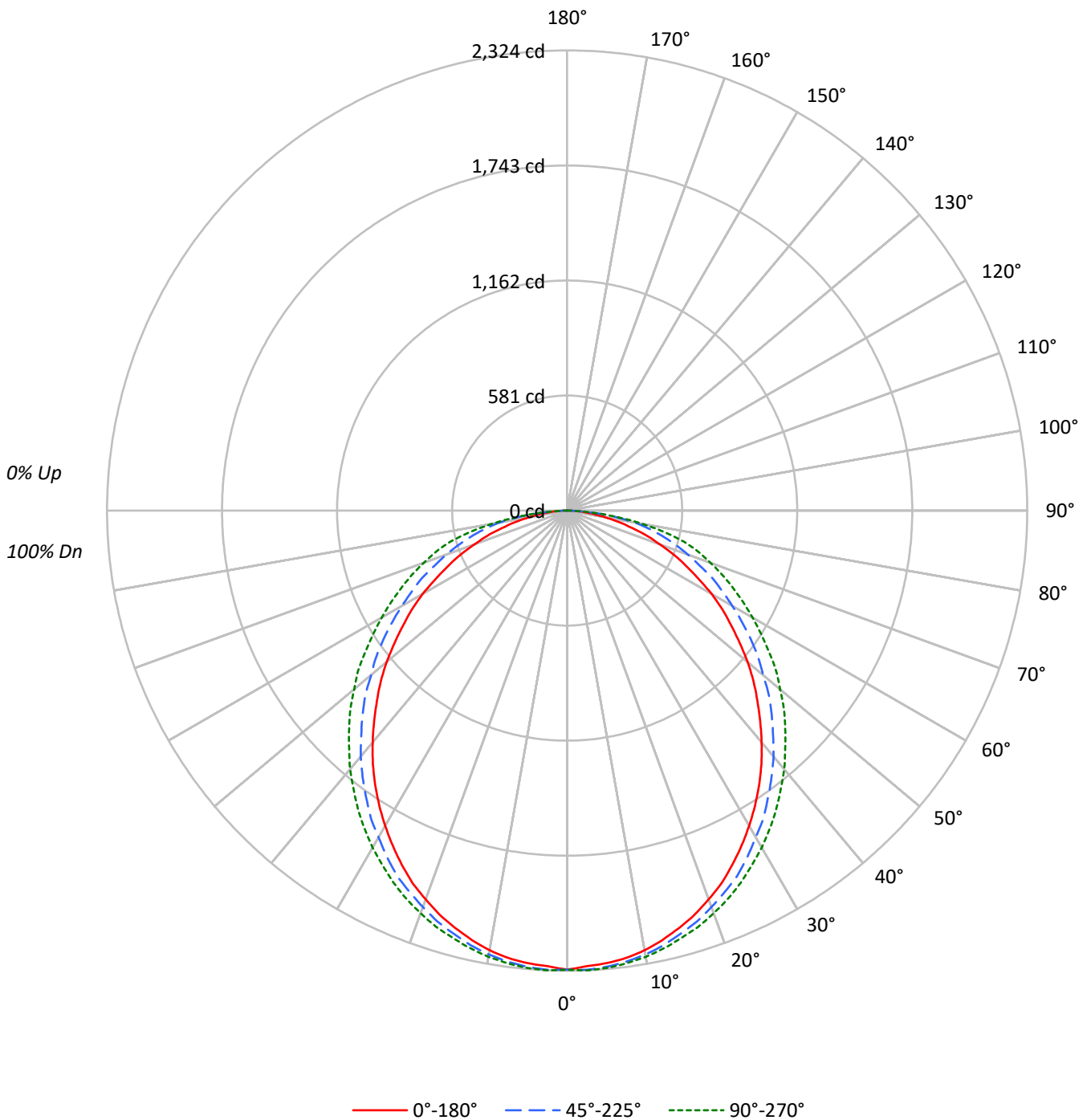
Input Watts (W): 54.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6239	6239	6239
5°	6197	6246	6263
10°	6162	6220	6253
15°	6081	6165	6223
20°	5982	6103	6198
25°	5862	6041	6158
30°	5712	5919	6106
35°	5553	5811	6049
40°	5366	5695	5991
45°	5170	5560	5928
50°	4979	5409	5876
55°	4745	5311	5835
60°	4533	5183	5816
65°	4229	5151	5882
70°	3895	5106	6057
75°	3515	5179	6371
80°	3040	5332	5988
85°	2516	4474	4474



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.2	3.4
10°-20°	624.0	9.6
20°-30°	933.6	14.4
30°-40°	1105.6	17.1
40°-50°	1126.7	17.4
50°-60°	1009.9	15.6
60°-70°	790.6	12.2
70°-80°	509.8	7.9
80°-90°	150.6	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°	1776.8	27.5
0°-40°	2882.4	44.5
0°-60°	5019.0	77.6
0°-90°	6470.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6470.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2318	2318	2318	2318	2318	
5°	2294	2300	2312	2315	2318	218
15°	2183	2195	2213	2231	2234	615
25°	1974	1992	2035	2062	2074	909
35°	1690	1712	1769	1823	1842	1057
45°	1358	1389	1461	1537	1558	1049
55°	1011	1044	1132	1210	1244	907
65°	664	703	809	888	924	660
75°	338	389	498	583	613	362
85°	82	112	145	145	145	96
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2318.4	2318.4	2318.4	2318.4	2318.4
2.5°	2303.3	2309.4	2321.5	2324.5	2324.5
5°	2294.3	2300.3	2312.4	2315.4	2318.4
7.5°	2279.2	2282.2	2297.3	2303.3	2306.4
10°	2255.0	2261.1	2276.2	2285.2	2288.3
12.5°	2221.8	2230.9	2249.0	2261.1	2264.1
15°	2182.6	2194.7	2212.8	2230.9	2233.9
17.5°	2140.3	2152.4	2176.6	2197.7	2203.7
20°	2089.0	2104.1	2131.3	2155.4	2164.5
22.5°	2037.7	2049.8	2083.0	2113.2	2122.2
25°	1974.3	1992.4	2034.7	2061.8	2073.9
27.5°	1907.9	1929.0	1971.3	2007.5	2019.6
30°	1838.4	1859.6	1904.9	1950.1	1965.2
32.5°	1766.0	1790.1	1844.5	1889.8	1904.9
35°	1690.5	1711.7	1769.0	1823.4	1841.5
37.5°	1612.0	1630.2	1696.6	1753.9	1772.0
40°	1527.5	1551.7	1621.1	1687.5	1705.6
42.5°	1443.0	1470.2	1539.6	1612.0	1630.2
45°	1358.5	1388.6	1461.1	1536.6	1557.7
47.5°	1277.0	1301.1	1382.6	1455.1	1485.2
50°	1189.4	1213.6	1292.0	1373.6	1403.7
52.5°	1098.8	1132.1	1216.6	1295.1	1331.3
55°	1011.3	1044.5	1132.1	1210.5	1243.7
57.5°	929.8	957.0	1047.5	1129.0	1162.2
60°	842.2	866.4	963.0	1050.5	1080.7
62.5°	748.7	784.9	884.5	966.0	1002.2
65°	664.1	703.4	809.0	887.5	923.8
67.5°	585.6	621.9	724.5	809.0	848.3
70°	495.1	543.4	649.0	733.6	769.8
72.5°	422.6	464.9	573.6	658.1	697.3
75°	338.1	389.4	498.1	582.6	612.8
77.5°	268.7	320.0	422.6	489.0	504.1
80°	196.2	247.5	344.1	377.4	386.4
82.5°	132.8	181.1	247.5	256.6	259.6
85°	81.5	111.7	144.9	144.9	144.9
87.5°	39.2	45.3	51.3	48.3	48.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)