

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: P388467

Luminaire Tested: **22CZ2-75VHE-UNV-L940-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: P388467
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-L940-CD1-SDWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 4000K, 90 LEDS, AND RIBBED LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6298.4 lumens
Efficiency: N/A
Efficacy: 115.1 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

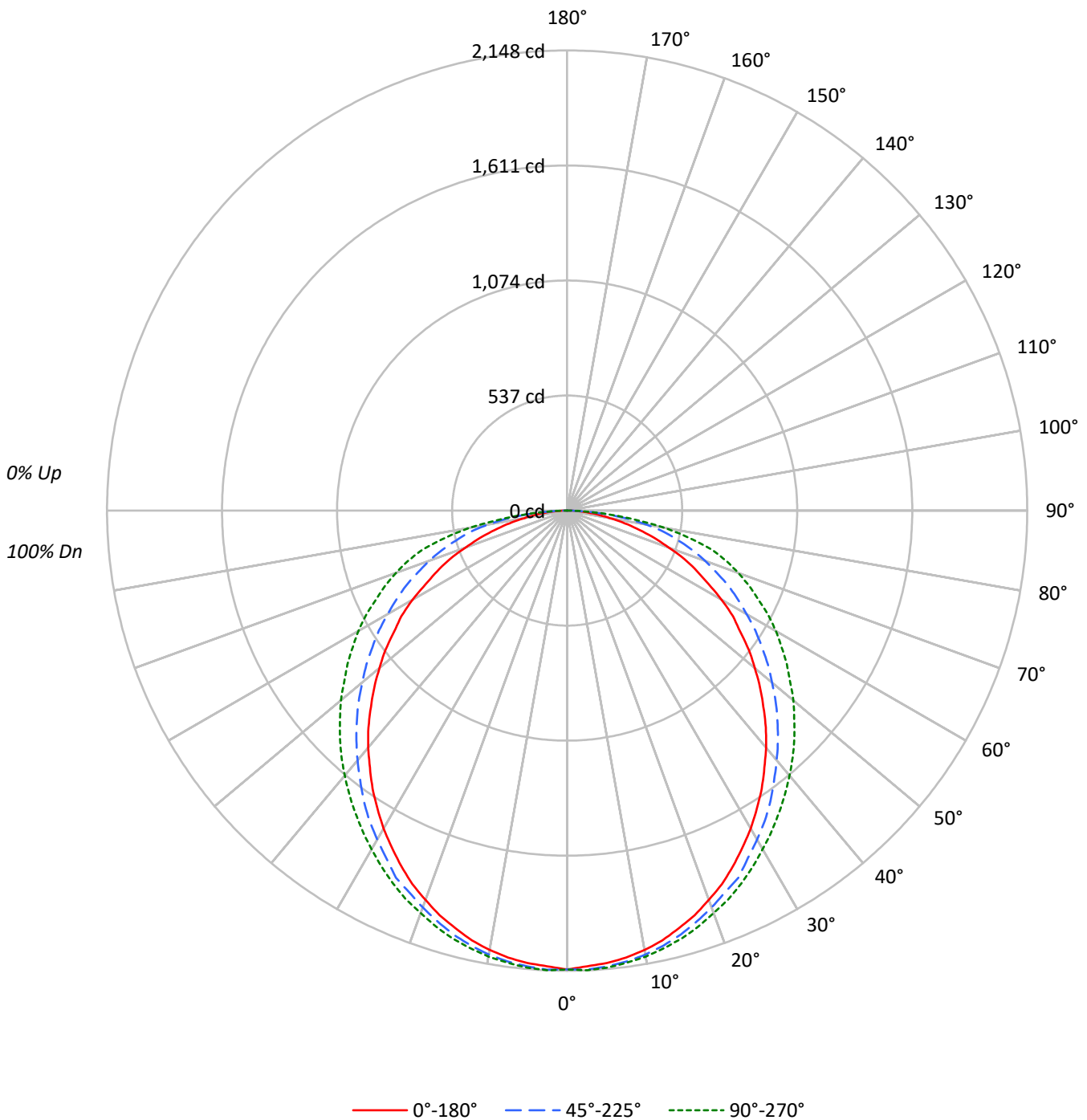
Input Watts (W): 54.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5763	5763	5763
5°	5726	5768	5785
10°	5691	5750	5776
15°	5621	5707	5759
20°	5538	5645	5724
25°	5438	5613	5705
30°	5326	5509	5672
35°	5203	5437	5661
40°	5073	5345	5672
45°	4930	5284	5708
50°	4788	5229	5774
55°	4624	5205	5874
60°	4487	5204	6055
65°	4262	5289	6276
70°	3975	5389	6681
75°	3641	5575	7218
80°	3169	5811	7108
85°	2776	5169	5647



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.5	3.2
10°-20°	576.9	9.2
20°-30°	866.0	13.7
30°-40°	1034.8	16.4
40°-50°	1076.0	17.1
50°-60°	997.3	15.8
60°-70°	818.1	13.0
70°-80°	553.0	8.8
80°-90°	173.8	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°	1645.4	26.1
0°-40°	2680.2	42.6
0°-60°	4753.6	75.5
0°-90°	6298.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6298.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2142	2142	2142	2142	2142	
5°	2120	2123	2135	2138	2142	201
15°	2018	2027	2049	2061	2067	569
25°	1832	1847	1890	1912	1922	844
35°	1584	1605	1655	1705	1723	990
45°	1296	1320	1388	1469	1500	1000
55°	986	1016	1110	1209	1252	886
65°	669	707	831	939	986	662
75°	350	409	536	645	694	371
85°	90	124	167	186	183	102
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2141.6	2141.6	2141.6	2141.6	2141.6
2.5°	2129.2	2135.4	2144.7	2147.8	2147.8
5°	2119.9	2123.0	2135.4	2138.5	2141.6
7.5°	2104.4	2110.6	2123.0	2126.1	2129.2
10°	2082.7	2088.9	2104.4	2110.6	2113.7
12.5°	2054.8	2061.0	2079.6	2088.9	2092.0
15°	2017.6	2026.9	2048.6	2061.0	2067.2
17.5°	1980.4	1989.7	2011.4	2030.0	2036.2
20°	1933.9	1955.6	1971.1	1995.9	1999.0
22.5°	1887.4	1899.8	1927.7	1952.5	1964.9
25°	1831.6	1847.1	1890.5	1912.2	1921.5
27.5°	1772.8	1794.5	1828.5	1862.6	1875.0
30°	1713.9	1729.4	1772.8	1813.1	1825.4
32.5°	1648.8	1670.5	1717.0	1757.3	1775.9
35°	1583.7	1605.4	1655.0	1704.6	1723.2
37.5°	1512.4	1537.2	1586.8	1645.7	1670.5
40°	1444.2	1462.8	1521.7	1593.0	1614.7
42.5°	1373.0	1394.7	1456.6	1534.1	1558.9
45°	1295.5	1320.3	1388.5	1469.0	1500.0
47.5°	1221.1	1245.9	1320.3	1400.9	1438.0
50°	1143.6	1174.6	1249.0	1342.0	1379.2
52.5°	1069.2	1097.1	1180.8	1276.9	1311.0
55°	985.6	1016.5	1109.5	1208.7	1252.1
57.5°	917.4	939.1	1041.3	1143.6	1187.0
60°	833.7	861.6	967.0	1075.4	1125.0
62.5°	743.8	790.3	898.8	1010.4	1059.9
65°	669.4	706.6	830.6	939.1	985.6
67.5°	592.0	632.2	753.1	867.8	920.5
70°	505.2	557.9	684.9	799.6	849.2
72.5°	427.7	483.5	613.6	725.2	777.9
75°	350.2	409.1	536.2	644.6	694.2
77.5°	275.8	340.9	464.9	548.6	579.6
80°	204.5	266.5	375.0	433.9	458.7
82.5°	142.6	195.3	275.8	306.8	313.0
85°	89.9	124.0	167.4	186.0	182.9
87.5°	40.3	49.6	62.0	68.2	65.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)