

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: P388466

Luminaire Tested: **22CZ2-75VHE-UNV-L935-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: P388466
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-U
Description: 2x2 CRUZE LED TROFFER WITH 3500K, 90 LEDS, AND RIBBED LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

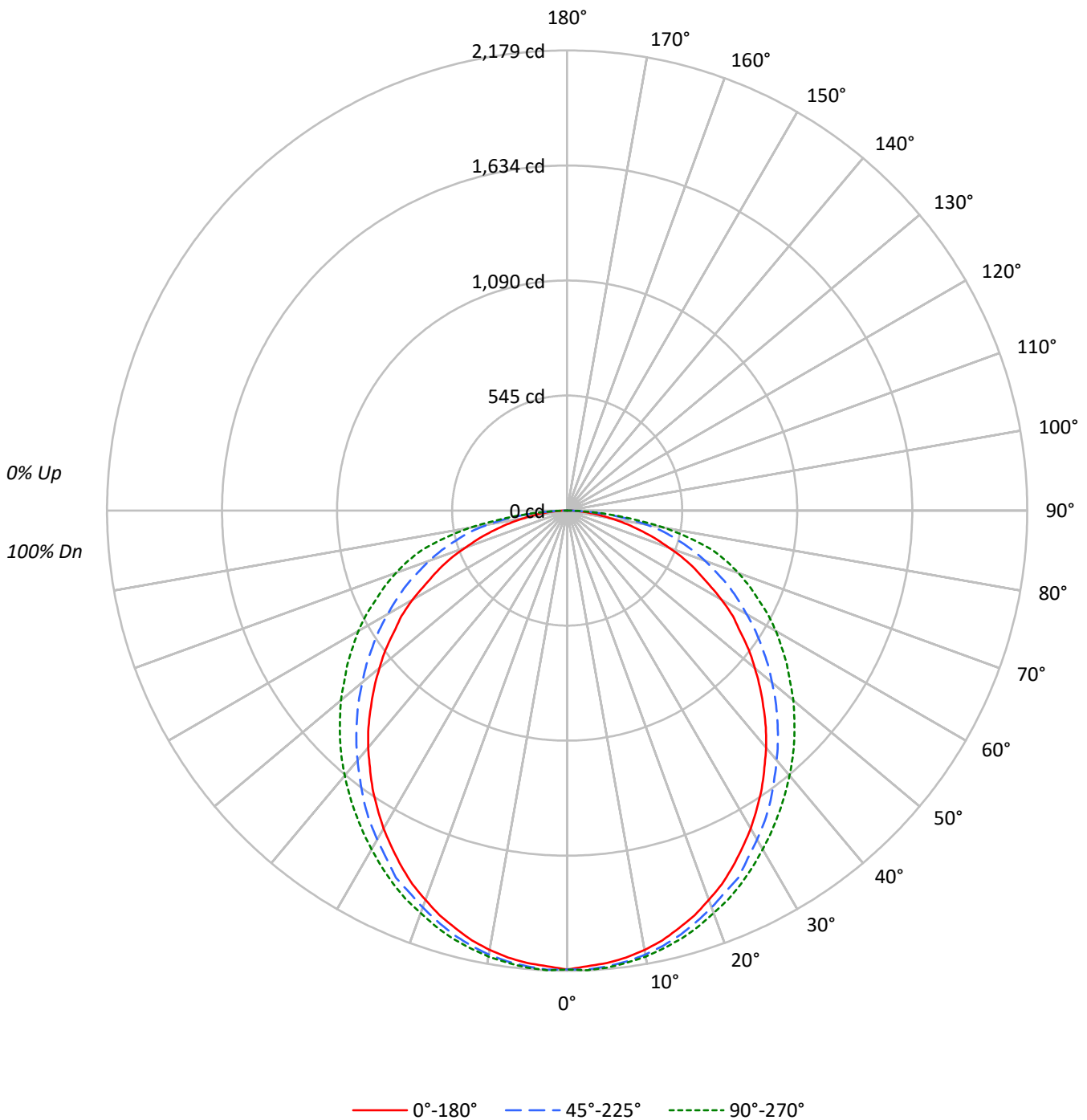
Lumens per Lamp: N/A
Luminaire Lumens: 6389.3 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	5846	5846	5846
5°	5809	5851	5868
10°	5773	5833	5859
15°	5702	5790	5842
20°	5618	5726	5807
25°	5517	5694	5788
30°	5402	5588	5754
35°	5278	5515	5742
40°	5147	5423	5754
45°	5001	5360	5791
50°	4857	5304	5857
55°	4691	5280	5959
60°	4552	5279	6142
65°	4324	5365	6366
70°	4032	5467	6777
75°	3694	5655	7322
80°	3216	5895	7211
85°	2816	5243	5727



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.5	3.2
10°-20°	585.2	9.2
20°-30°	878.5	13.7
30°-40°	1049.7	16.4
40°-50°	1091.6	17.1
50°-60°	1011.7	15.8
60°-70°	829.8	13.0
70°-80°	561.0	8.8
80°-90°	176.3	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°	1669.2	26.1
0°-40°	2718.9	42.6
0°-60°	4822.2	75.5
0°-90°	6389.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6389.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2172	2172	2172	2172	2172	
5°	2150	2154	2166	2169	2172	204
15°	2047	2056	2078	2091	2097	577
25°	1858	1874	1918	1940	1949	856
35°	1607	1629	1679	1729	1748	1004
45°	1314	1339	1408	1490	1522	1015
55°	1000	1031	1126	1226	1270	899
65°	679	717	843	953	1000	671
75°	355	415	544	654	704	377
85°	91	126	170	189	186	104
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2172.5	2172.5	2172.5	2172.5	2172.5
2.5°	2159.9	2166.2	2175.6	2178.8	2178.8
5°	2150.5	2153.6	2166.2	2169.3	2172.5
7.5°	2134.8	2141.0	2153.6	2156.8	2159.9
10°	2112.7	2119.0	2134.8	2141.0	2144.2
12.5°	2084.4	2090.7	2109.6	2119.0	2122.2
15°	2046.7	2056.2	2078.2	2090.7	2097.0
17.5°	2009.0	2018.4	2040.4	2059.3	2065.6
20°	1961.8	1983.8	1999.6	2024.7	2027.9
22.5°	1914.7	1927.3	1955.5	1980.7	1993.3
25°	1858.1	1873.8	1917.8	1939.8	1949.3
27.5°	1798.3	1820.4	1854.9	1889.5	1902.1
30°	1738.6	1754.3	1798.3	1839.2	1851.8
32.5°	1672.6	1694.6	1741.8	1782.6	1801.5
35°	1606.6	1628.6	1678.9	1729.2	1748.0
37.5°	1534.3	1559.4	1609.7	1669.4	1694.6
40°	1465.1	1484.0	1543.7	1616.0	1638.0
42.5°	1392.8	1414.8	1477.7	1556.3	1581.4
45°	1314.2	1339.3	1408.5	1490.2	1521.7
47.5°	1238.7	1263.9	1339.3	1421.1	1458.8
50°	1160.1	1191.6	1267.0	1361.3	1399.1
52.5°	1084.7	1113.0	1197.9	1295.3	1329.9
55°	999.8	1031.2	1125.5	1226.1	1270.2
57.5°	930.6	952.6	1056.4	1160.1	1204.1
60°	845.7	874.0	980.9	1091.0	1141.3
62.5°	754.6	801.7	911.7	1024.9	1075.2
65°	679.1	716.8	842.6	952.6	999.8
67.5°	600.5	641.4	764.0	880.3	933.8
70°	512.5	565.9	694.8	811.1	861.4
72.5°	433.9	490.5	622.5	735.7	789.1
75°	355.3	415.0	543.9	653.9	704.2
77.5°	279.8	345.8	471.6	556.5	587.9
80°	207.5	270.4	380.4	440.2	465.3
82.5°	144.6	198.1	279.8	311.3	317.5
85°	91.2	125.8	169.8	188.6	185.5
87.5°	40.9	50.3	62.9	69.2	66.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)