

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: P388468

Luminaire Tested: **22CZ2-75VHE-UNV-L940-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: P388468
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-SWPD1-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: 6375.3 lumens
Efficiency: N/A
Efficacy: 116.6 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

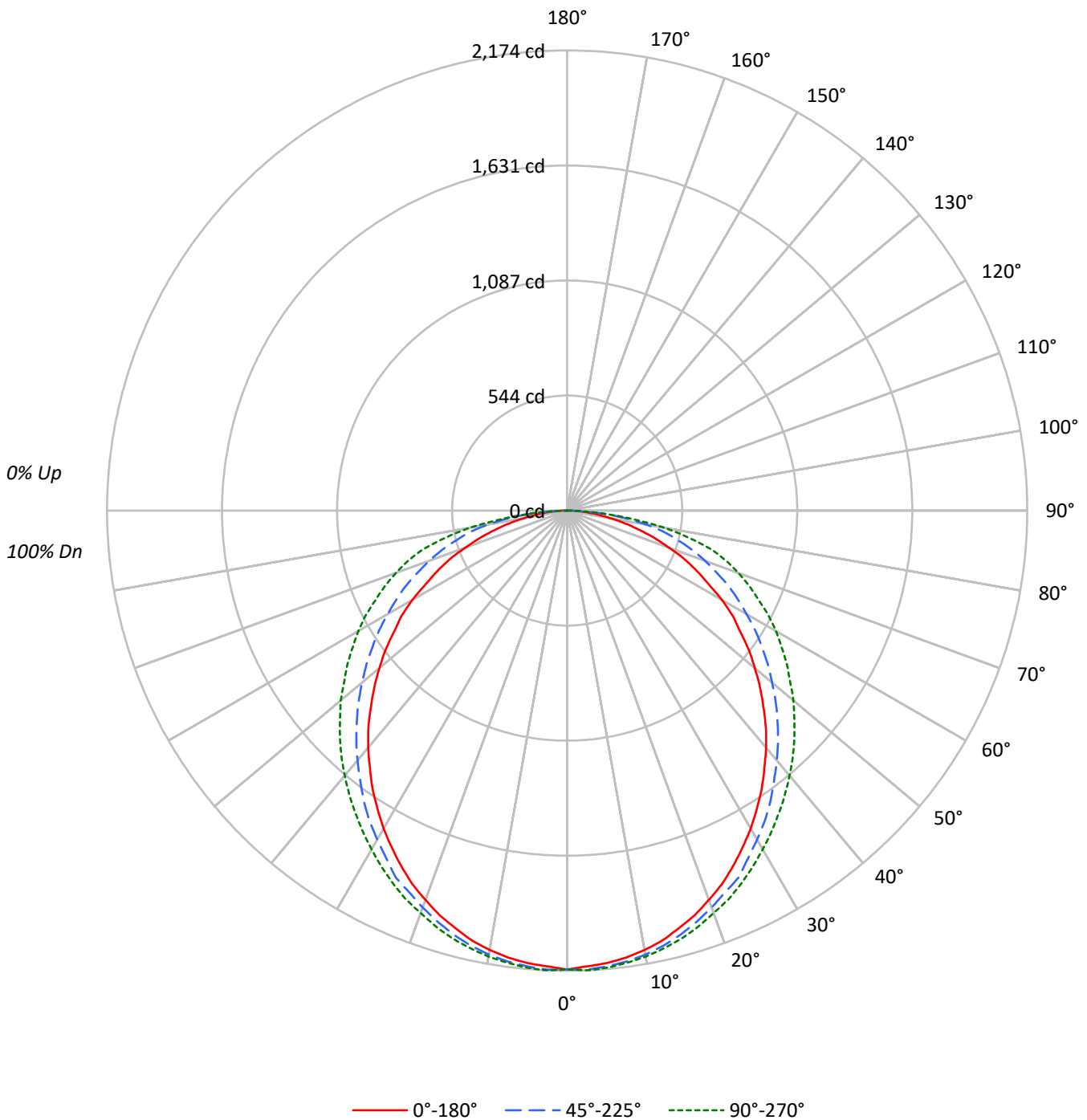
Input Watts (W): 54.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P388468

CATALOG NUMBER: 22CZ2-75VHE-UNV-L940-CD1-SWPD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P388468

CATALOG NUMBER: 22CZ2-75VHE-UNV-L940-CD1-SWPD1-U

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°	5833	5833	5833
5°	5796	5838	5856
10°	5760	5820	5846
15°	5689	5777	5829
20°	5606	5714	5794
25°	5505	5682	5775
30°	5391	5576	5741
35°	5266	5503	5730
40°	5135	5411	5741
45°	4990	5348	5778
50°	4846	5292	5844
55°	4680	5269	5946
60°	4542	5268	6129
65°	4315	5353	6352
70°	4023	5455	6763
75°	3686	5643	7306
80°	3208	5883	7195
85°	2810	5230	5715



TEST NUMBER: P388468

CATALOG NUMBER: 22CZ2-75VHE-UNV-L940-CD1-SWPD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.0	3.2
10°-20°	583.9	9.2
20°-30°	876.6	13.7
30°-40°	1047.4	16.4
40°-50°	1089.2	17.1
50°-60°	1009.5	15.8
60°-70°	828.0	13.0
70°-80°	559.8	8.8
80°-90°	175.9	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°	1665.5	26.1
0°-40°	2712.9	42.6
0°-60°	4811.6	75.5
0°-90°	6375.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6375.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2168	2168	2168	2168	2168	
5°	2146	2149	2161	2165	2168	204
15°	2042	2052	2074	2086	2092	576
25°	1854	1870	1914	1936	1945	854
35°	1603	1625	1675	1725	1744	1002
45°	1311	1336	1405	1487	1518	1013
55°	998	1029	1123	1224	1267	897
65°	678	715	841	950	998	670
75°	354	414	543	652	703	376
85°	91	126	169	188	185	103
90°	0	0	0	0	0	



TEST NUMBER: P388468

CATALOG NUMBER: 22CZ2-75VHE-UNV-L940-CD1-SWPD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2167.7	2167.7	2167.7	2167.7	2167.7
2.5°	2155.2	2161.4	2170.9	2174.0	2174.0
5°	2145.8	2148.9	2161.4	2164.6	2167.7
7.5°	2130.1	2136.3	2148.9	2152.0	2155.2
10°	2108.1	2114.4	2130.1	2136.3	2139.5
12.5°	2079.9	2086.2	2105.0	2114.4	2117.5
15°	2042.2	2051.6	2073.6	2086.2	2092.4
17.5°	2004.6	2014.0	2036.0	2054.8	2061.1
20°	1957.5	1979.5	1995.2	2020.3	2023.4
22.5°	1910.5	1923.0	1951.3	1976.4	1988.9
25°	1854.0	1869.7	1913.6	1935.6	1945.0
27.5°	1794.4	1816.4	1850.9	1885.4	1897.9
30°	1734.8	1750.5	1794.4	1835.2	1847.7
32.5°	1668.9	1690.9	1737.9	1778.7	1797.5
35°	1603.0	1625.0	1675.2	1725.4	1744.2
37.5°	1530.9	1556.0	1606.2	1665.8	1690.9
40°	1461.9	1480.7	1540.3	1612.5	1634.4
42.5°	1389.7	1411.7	1474.4	1552.9	1577.9
45°	1311.3	1336.4	1405.4	1487.0	1518.3
47.5°	1236.0	1261.1	1336.4	1418.0	1455.6
50°	1157.6	1189.0	1264.2	1358.4	1396.0
52.5°	1082.3	1110.5	1195.2	1292.5	1327.0
55°	997.6	1029.0	1123.1	1223.5	1267.4
57.5°	928.6	950.5	1054.1	1157.6	1201.5
60°	843.9	872.1	978.8	1088.6	1138.8
62.5°	752.9	800.0	909.8	1022.7	1072.9
65°	677.6	715.3	840.7	950.5	997.6
67.5°	599.2	640.0	762.3	878.4	931.7
70°	511.3	564.7	693.3	809.4	859.6
72.5°	432.9	489.4	621.1	734.1	787.4
75°	354.5	414.1	542.7	652.5	702.7
77.5°	279.2	345.1	470.6	555.3	586.6
80°	207.0	269.8	379.6	439.2	464.3
82.5°	144.3	197.6	279.2	310.6	316.8
85°	91.0	125.5	169.4	188.2	185.1
87.5°	40.8	50.2	62.7	69.0	65.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)