

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: P388182

Luminaire Tested: **22CZ2-75VHE-SQR-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: P388182
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-542-6)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 2/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-75VHE-SQR-UNV-L940-CD1-SDWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 4000K, 90 LEDS, AND SQUARE LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6048.9 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.31 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

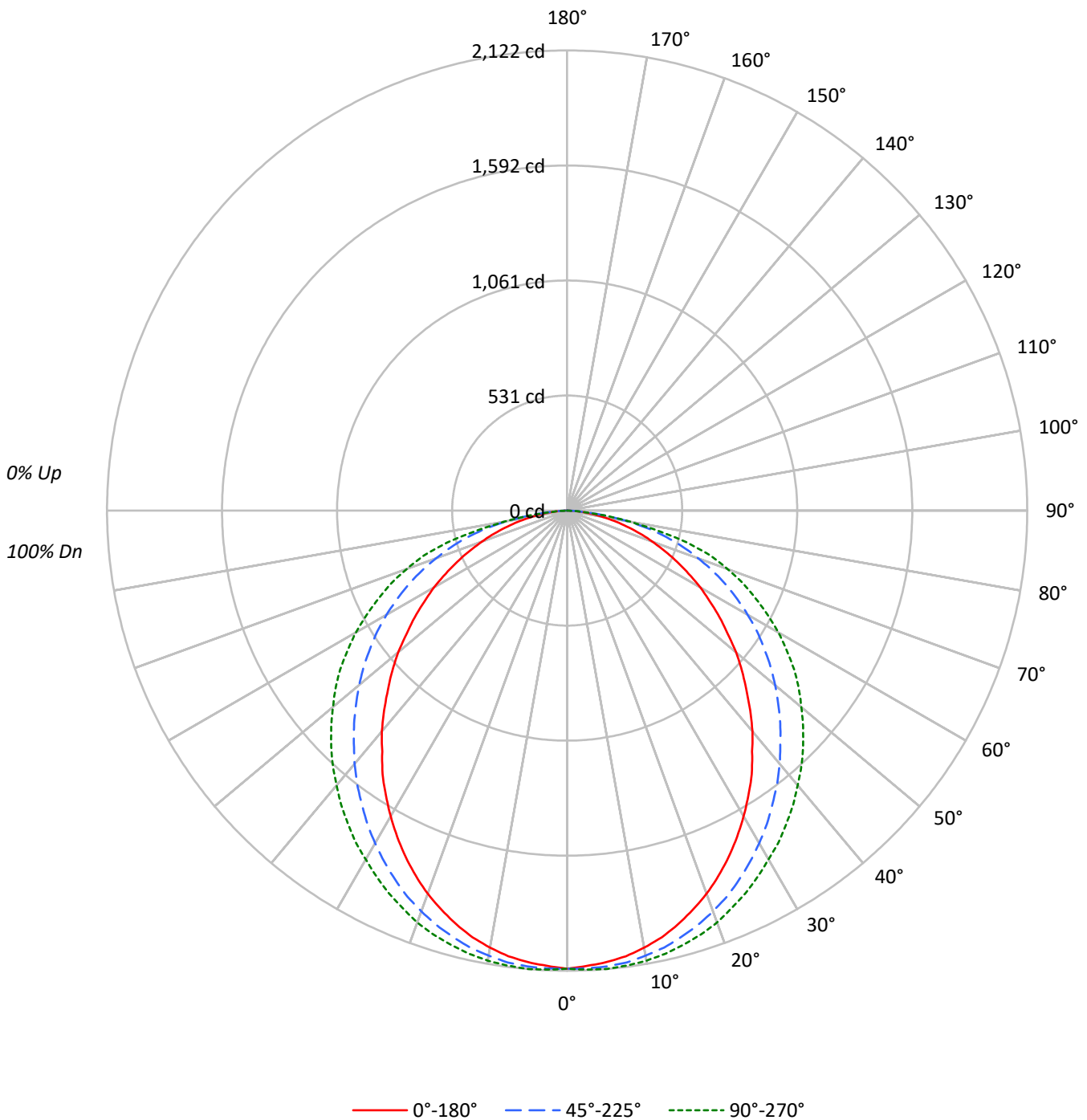
Input Watts (W): 54.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P388182

CATALOG NUMBER: 22CZ2-75VHE-SQR-UNV-L940-CD1-SDWPD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P388182

CATALOG NUMBER: 22CZ2-75VHE-SQR-UNV-L940-CD1-SDWPD1-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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	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	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5686	5686	5686
5°	5646	5700	5731
10°	5593	5695	5758
15°	5503	5671	5775
20°	5385	5632	5788
25°	5234	5575	5779
30°	5058	5504	5772
35°	4876	5423	5791
40°	4670	5355	5809
45°	4447	5288	5856
50°	4255	5240	5901
55°	4027	5199	5994
60°	3816	5176	6057
65°	3564	5137	6106
70°	3275	5060	6189
75°	2955	4925	5970
80°	2535	4361	4494
85°	2038	2572	2038



TEST NUMBER: P388182

CATALOG NUMBER: 22CZ2-75VHE-SQR-UNV-L940-CD1-SDWPD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.3	3.3
10°-20°	572.7	9.5
20°-30°	860.2	14.2
30°-40°	1025.9	17.0
40°-50°	1060.7	17.5
50°-60°	975.2	16.1
60°-70°	776.4	12.8
70°-80°	474.3	7.8
80°-90°	103.1	1.7
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°	1633.3	27.0
0°-40°	2659.2	44.0
0°-60°	4695.1	77.6
0°-90°	6048.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6048.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2113	2113	2113	2113	2113	
5°	2090	2096	2110	2119	2122	198
15°	1975	1998	2036	2064	2073	556
25°	1763	1806	1878	1929	1946	811
35°	1484	1547	1651	1737	1763	926
45°	1168	1252	1390	1502	1539	904
55°	858	953	1108	1234	1278	768
65°	560	655	807	919	959	555
75°	284	368	474	557	574	303
85°	66	80	83	72	66	76
90°	0	0	0	0	0	



TEST NUMBER: P388182

CATALOG NUMBER: 22CZ2-75VHE-SQR-UNV-L940-CD1-SDWPD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2113.0	2113.0	2113.0	2113.0	2113.0
2.5°	2101.5	2104.4	2113.0	2118.8	2118.8
5°	2090.1	2095.8	2110.2	2118.8	2121.6
7.5°	2072.8	2081.4	2101.5	2113.0	2115.9
10°	2047.0	2058.5	2084.3	2101.5	2107.3
12.5°	2015.4	2032.6	2064.2	2087.2	2092.9
15°	1975.2	1998.2	2035.5	2064.2	2072.8
17.5°	1929.3	1958.0	2003.9	2038.4	2049.9
20°	1880.5	1909.2	1966.6	2006.8	2021.2
22.5°	1823.1	1860.4	1926.4	1972.3	1983.8
25°	1762.8	1805.8	1877.6	1929.3	1946.5
27.5°	1696.7	1748.4	1825.9	1889.1	1903.4
30°	1627.8	1682.4	1771.4	1840.3	1857.5
32.5°	1556.1	1619.2	1714.0	1791.5	1814.4
35°	1484.3	1547.4	1650.8	1736.9	1762.8
37.5°	1401.0	1475.7	1590.5	1679.5	1711.1
40°	1329.3	1401.0	1524.5	1622.1	1653.7
42.5°	1248.9	1326.4	1455.6	1561.8	1599.1
45°	1168.5	1251.7	1389.5	1501.5	1538.8
47.5°	1093.8	1177.1	1320.6	1438.4	1475.7
50°	1016.3	1102.4	1251.7	1372.3	1409.6
52.5°	933.1	1027.8	1182.8	1303.4	1346.5
55°	858.4	953.2	1108.2	1234.5	1277.6
57.5°	780.9	878.5	1039.3	1159.9	1200.1
60°	709.1	803.9	961.8	1079.5	1125.4
62.5°	631.6	729.2	884.3	999.1	1042.2
65°	559.8	654.6	806.7	918.7	958.9
67.5°	488.1	582.8	726.4	832.6	878.5
70°	416.3	511.0	643.1	746.4	786.6
72.5°	353.1	436.4	562.7	657.4	694.8
75°	284.2	367.5	473.7	557.0	574.2
77.5°	221.1	295.7	384.7	422.0	427.8
80°	163.6	221.1	281.4	290.0	290.0
82.5°	109.1	152.2	175.1	178.0	175.1
85°	66.0	80.4	83.3	71.8	66.0
87.5°	23.0	23.0	14.4	8.6	2.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)