

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: P388179

Luminaire Tested: **22CZ2-75VHE-SQR-UNV-L935-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: P388179
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-L935-CD1-SDWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 3500K, 90 LEDS, AND SQUARE LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5986.9 lumens
Efficiency: N/A
Efficacy: 109.4 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

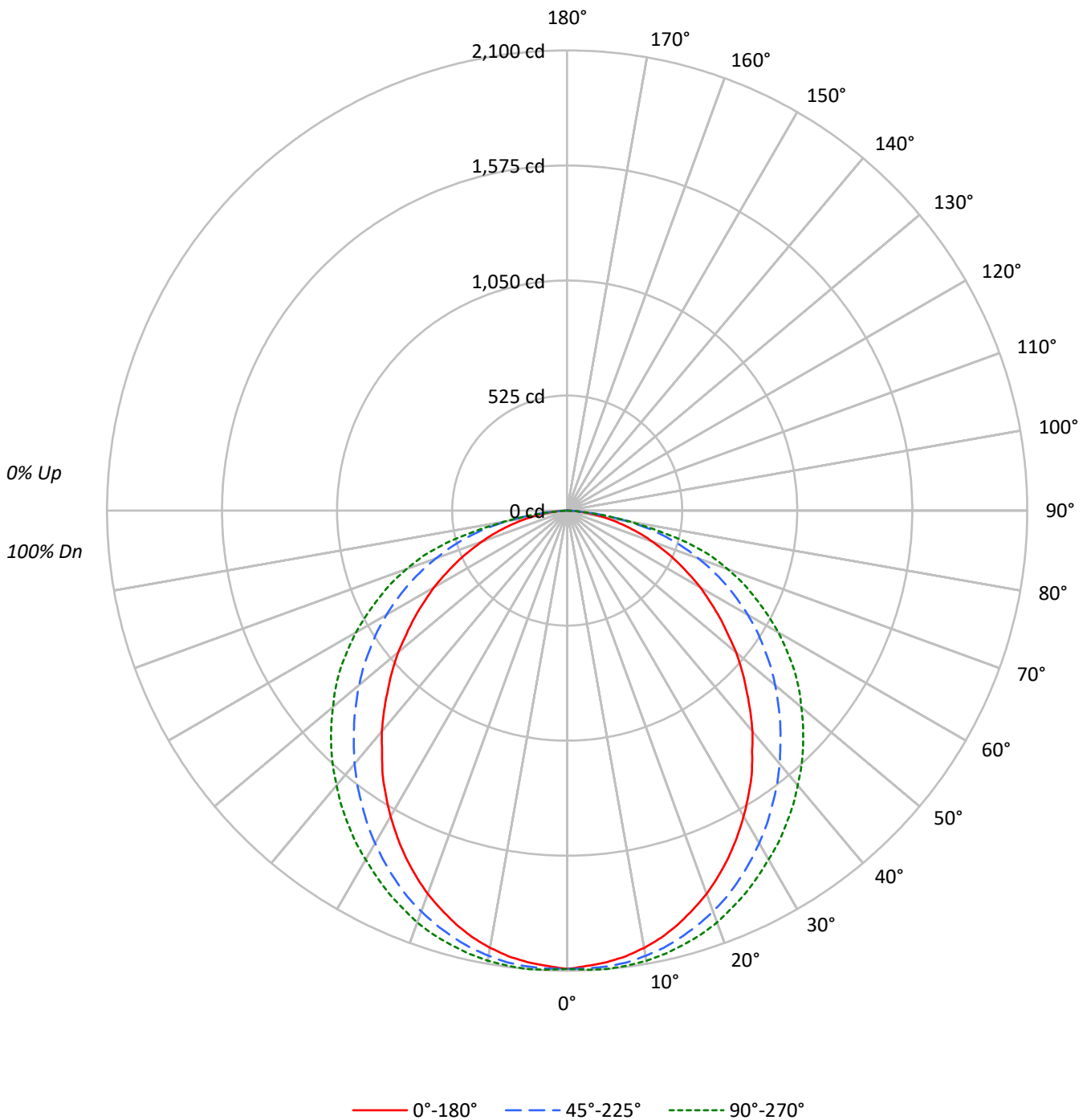
Input Watts (W): 54.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	5628	5628	5628
5°	5588	5642	5672
10°	5536	5637	5699
15°	5446	5612	5716
20°	5330	5574	5729
25°	5180	5518	5720
30°	5006	5448	5713
35°	4826	5367	5731
40°	4621	5300	5749
45°	4401	5234	5796
50°	4211	5187	5841
55°	3986	5146	5933
60°	3778	5123	5995
65°	3528	5084	6043
70°	3242	5008	6126
75°	2925	4875	5909
80°	2510	4316	4448
85°	2019	2544	2019



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.3	3.3
10°-20°	566.9	9.5
20°-30°	851.4	14.2
30°-40°	1015.4	17.0
40°-50°	1049.8	17.5
50°-60°	965.2	16.1
60°-70°	768.4	12.8
70°-80°	469.5	7.8
80°-90°	102.0	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°	1616.5	27.0
0°-40°	2631.9	44.0
0°-60°	4647.0	77.6
0°-90°	5986.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5986.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2091	2091	2091	2091	2091	
5°	2069	2074	2088	2097	2100	196
15°	1955	1978	2015	2043	2052	551
25°	1745	1787	1858	1910	1927	803
35°	1469	1532	1634	1719	1745	917
45°	1156	1239	1375	1486	1523	894
55°	850	943	1097	1222	1264	760
65°	554	648	798	909	949	549
75°	281	364	469	551	568	300
85°	65	80	82	71	65	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2091.4	2091.4	2091.4	2091.4	2091.4
2.5°	2080.0	2082.8	2091.4	2097.1	2097.1
5°	2068.6	2074.3	2088.5	2097.1	2099.9
7.5°	2051.6	2060.1	2080.0	2091.4	2094.2
10°	2026.0	2037.4	2063.0	2080.0	2085.7
12.5°	1994.8	2011.8	2043.1	2065.8	2071.5
15°	1955.0	1977.7	2014.6	2043.1	2051.6
17.5°	1909.5	1937.9	1983.4	2017.5	2028.9
20°	1861.2	1889.6	1946.5	1986.2	2000.4
22.5°	1804.4	1841.3	1906.7	1952.1	1963.5
25°	1744.7	1787.3	1858.4	1909.5	1926.6
27.5°	1679.3	1730.5	1807.2	1869.7	1883.9
30°	1611.1	1665.1	1753.2	1821.4	1838.5
32.5°	1540.1	1602.6	1696.4	1773.1	1795.8
35°	1469.1	1531.6	1633.9	1719.1	1744.7
37.5°	1386.7	1460.5	1574.2	1662.3	1693.6
40°	1315.6	1386.7	1508.9	1605.5	1636.7
42.5°	1236.1	1312.8	1440.7	1545.8	1582.7
45°	1156.5	1238.9	1375.3	1486.1	1523.1
47.5°	1082.6	1165.0	1307.1	1423.6	1460.5
50°	1005.9	1091.1	1238.9	1358.3	1395.2
52.5°	923.5	1017.3	1170.7	1290.1	1332.7
55°	849.6	943.4	1096.8	1221.9	1264.5
57.5°	772.9	869.5	1028.6	1148.0	1187.8
60°	701.9	795.6	951.9	1068.4	1113.9
62.5°	625.1	721.7	875.2	988.9	1031.5
65°	554.1	647.9	798.5	909.3	949.1
67.5°	483.1	576.8	718.9	824.0	869.5
70°	412.0	505.8	636.5	738.8	778.6
72.5°	349.5	431.9	556.9	650.7	687.7
75°	281.3	363.7	468.9	551.3	568.3
77.5°	218.8	292.7	380.8	417.7	423.4
80°	162.0	218.8	278.5	287.0	287.0
82.5°	108.0	150.6	173.3	176.2	173.3
85°	65.4	79.6	82.4	71.0	65.4
87.5°	22.7	22.7	14.2	8.5	2.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)