

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: P388187

Luminaire Tested: **22CZ2-75VHE-SQR-UNV-L950-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: P388187
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-L950-CD1-U
Description: 2x2 CRUZE LED TROFFER WITH 5000K, 90 LEDS, AND SQUARE LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6580.5 lumens
Efficiency: N/A
Efficacy: 120.3 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

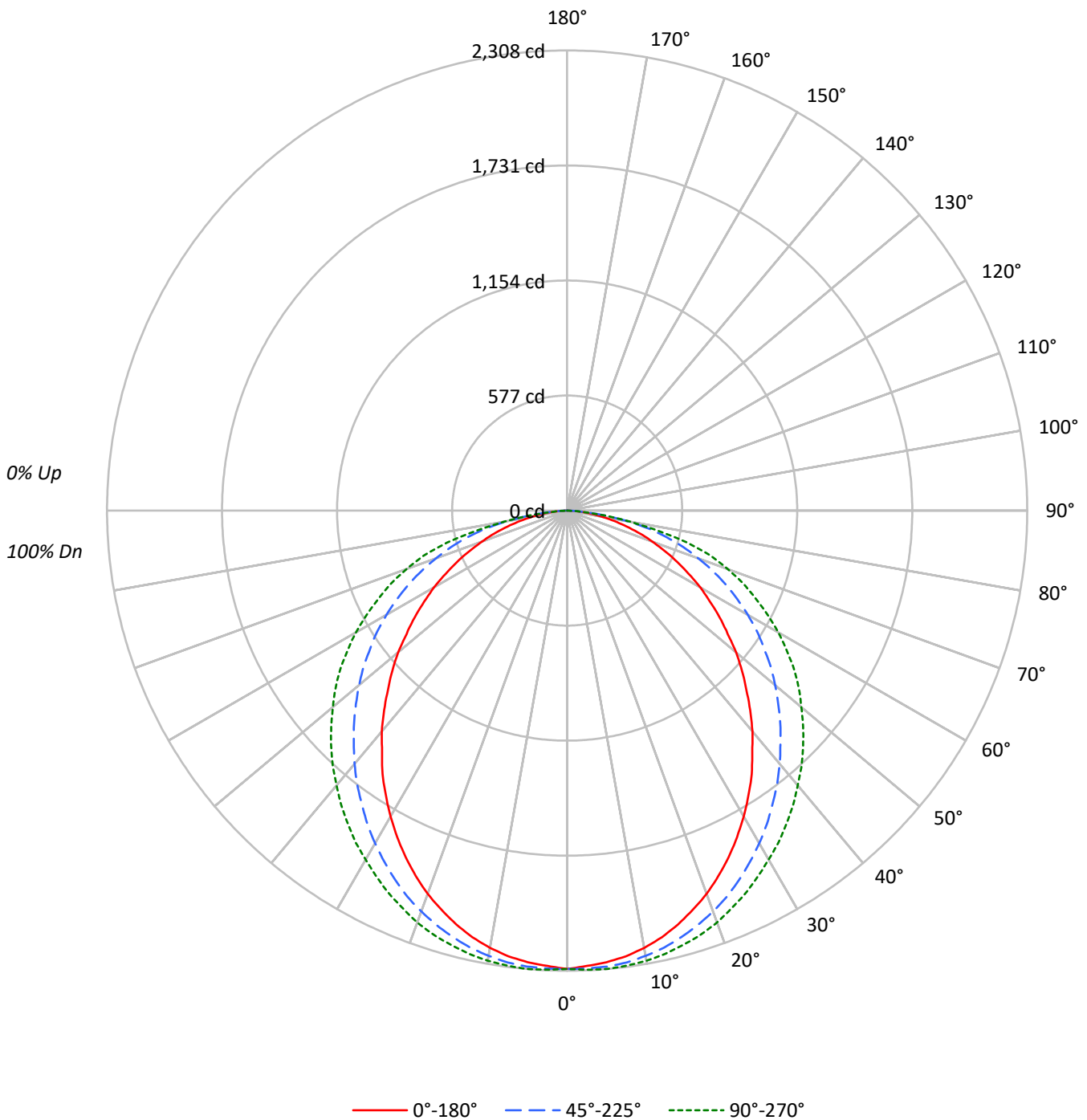
Input Watts (W): 54.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6186	6186	6186
5°	6142	6201	6235
10°	6085	6196	6264
15°	5986	6169	6282
20°	5858	6127	6297
25°	5694	6065	6288
30°	5503	5988	6279
35°	5304	5900	6300
40°	5080	5826	6320
45°	4838	5753	6371
50°	4629	5701	6420
55°	4381	5656	6521
60°	4152	5631	6589
65°	3878	5588	6642
70°	3563	5504	6733
75°	3215	5358	6495
80°	2758	4744	4889
85°	2217	2797	2217



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.9	3.3
10°-20°	623.1	9.5
20°-30°	935.8	14.2
30°-40°	1116.1	17.0
40°-50°	1153.9	17.5
50°-60°	1060.9	16.1
60°-70°	844.6	12.8
70°-80°	516.0	7.8
80°-90°	112.2	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°	1776.8	27.0
0°-40°	2892.9	44.0
0°-60°	5107.7	77.6
0°-90°	6580.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6580.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2299	2299	2299	2299	2299	
5°	2274	2280	2296	2305	2308	216
15°	2149	2174	2214	2246	2255	605
25°	1918	1964	2043	2099	2118	882
35°	1615	1683	1796	1890	1918	1007
45°	1271	1362	1512	1634	1674	983
55°	934	1037	1206	1343	1390	835
65°	609	712	878	999	1043	603
75°	309	400	515	606	625	329
85°	72	88	91	78	72	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2298.7	2298.7	2298.7	2298.7	2298.7
2.5°	2286.2	2289.4	2298.7	2305.0	2305.0
5°	2273.7	2280.0	2295.6	2305.0	2308.1
7.5°	2255.0	2264.4	2286.2	2298.7	2301.9
10°	2226.9	2239.4	2267.5	2286.2	2292.5
12.5°	2192.5	2211.3	2245.6	2270.6	2276.9
15°	2148.8	2173.8	2214.4	2245.6	2255.0
17.5°	2098.8	2130.1	2180.0	2217.5	2230.0
20°	2045.7	2077.0	2139.4	2183.2	2198.8
22.5°	1983.3	2023.9	2095.7	2145.7	2158.2
25°	1917.7	1964.5	2042.6	2098.8	2117.6
27.5°	1845.9	1902.1	1986.4	2055.1	2070.7
30°	1770.9	1830.2	1927.1	2002.0	2020.8
32.5°	1692.8	1761.5	1864.6	1948.9	1973.9
35°	1614.7	1683.4	1795.9	1889.6	1917.7
37.5°	1524.2	1605.4	1730.3	1827.1	1861.5
40°	1446.1	1524.2	1658.5	1764.6	1799.0
42.5°	1358.6	1443.0	1583.5	1699.1	1739.7
45°	1271.2	1361.7	1511.7	1633.5	1674.1
47.5°	1190.0	1280.5	1436.7	1564.8	1605.4
50°	1105.6	1199.3	1361.7	1492.9	1533.5
52.5°	1015.1	1118.1	1286.8	1418.0	1464.8
55°	933.9	1036.9	1205.6	1343.0	1389.9
57.5°	849.5	955.7	1130.6	1261.8	1305.5
60°	771.4	874.5	1046.3	1174.3	1224.3
62.5°	687.1	793.3	962.0	1086.9	1133.7
65°	609.0	712.1	877.6	999.4	1043.2
67.5°	531.0	634.0	790.2	905.7	955.7
70°	452.9	555.9	699.6	812.1	855.8
72.5°	384.2	474.7	612.2	715.2	755.8
75°	309.2	399.8	515.3	605.9	624.7
77.5°	240.5	321.7	418.5	459.1	465.4
80°	178.0	240.5	306.1	315.5	315.5
82.5°	118.7	165.5	190.5	193.6	190.5
85°	71.8	87.5	90.6	78.1	71.8
87.5°	25.0	25.0	15.6	9.4	3.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)