

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: P388185

Luminaire Tested: **22CZ2-75VHE-SQR-UNV-L950-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: P388185
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-SDWPD1-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: 6420.5 lumens
Efficiency: N/A
Efficacy: 117.4 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

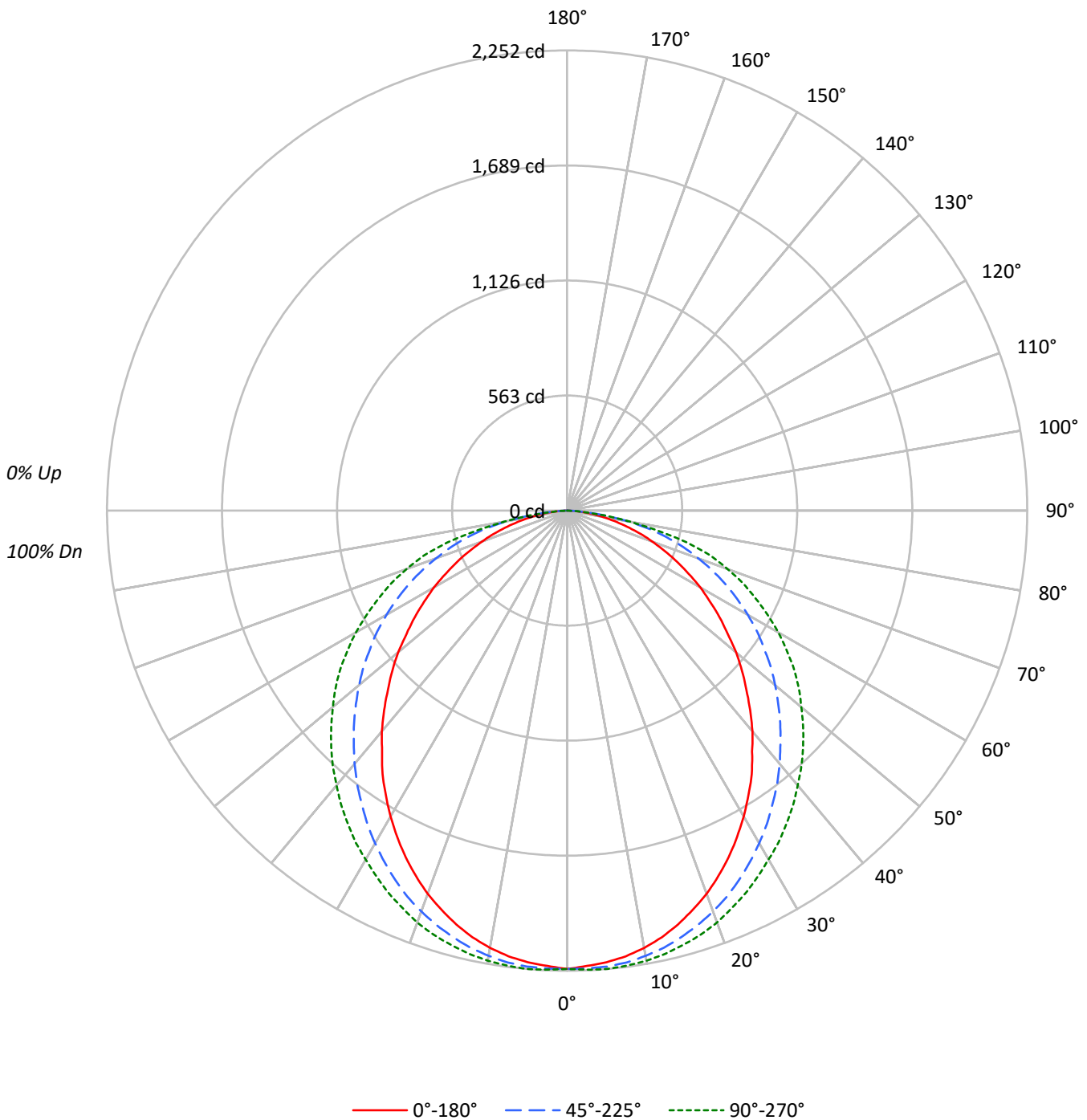
Input Watts (W): 54.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6035	6035	6035
5°	5993	6050	6083
10°	5937	6045	6112
15°	5841	6019	6130
20°	5716	5978	6143
25°	5556	5918	6135
30°	5369	5842	6126
35°	5176	5756	6147
40°	4956	5684	6166
45°	4720	5613	6216
50°	4516	5562	6264
55°	4275	5519	6362
60°	4051	5494	6429
65°	3784	5452	6481
70°	3477	5371	6570
75°	3137	5228	6337
80°	2692	4627	4770
85°	2164	2729	2164



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.6	3.3
10°-20°	607.9	9.5
20°-30°	913.1	14.2
30°-40°	1088.9	17.0
40°-50°	1125.9	17.5
50°-60°	1035.1	16.1
60°-70°	824.1	12.8
70°-80°	503.5	7.8
80°-90°	109.4	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°	1733.6	27.0
0°-40°	2822.6	44.0
0°-60°	4983.6	77.6
0°-90°	6420.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6420.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2243	2243	2243	2243	2243	
5°	2218	2225	2240	2249	2252	210
15°	2097	2121	2161	2191	2200	590
25°	1871	1917	1993	2048	2066	861
35°	1576	1642	1752	1844	1871	983
45°	1240	1329	1475	1594	1633	959
55°	911	1012	1176	1310	1356	815
65°	594	695	856	975	1018	589
75°	302	390	503	591	610	321
85°	70	85	88	76	70	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2242.8	2242.8	2242.8	2242.8	2242.8
2.5°	2230.6	2233.7	2242.8	2248.9	2248.9
5°	2218.5	2224.6	2239.8	2248.9	2252.0
7.5°	2200.2	2209.3	2230.6	2242.8	2245.9
10°	2172.7	2184.9	2212.4	2230.6	2236.7
12.5°	2139.2	2157.5	2191.0	2215.4	2221.5
15°	2096.6	2120.9	2160.6	2191.0	2200.2
17.5°	2047.8	2078.3	2127.0	2163.6	2175.8
20°	1996.0	2026.5	2087.4	2130.1	2145.3
22.5°	1935.1	1974.7	2044.8	2093.5	2105.7
25°	1871.1	1916.8	1993.0	2047.8	2066.1
27.5°	1801.0	1855.8	1938.1	2005.1	2020.4
30°	1727.8	1785.7	1880.2	1953.3	1971.6
32.5°	1651.7	1718.7	1819.3	1901.5	1925.9
35°	1575.5	1642.5	1752.2	1843.6	1871.1
37.5°	1487.1	1566.3	1688.2	1782.7	1816.2
40°	1410.9	1487.1	1618.1	1721.7	1755.3
42.5°	1325.6	1407.9	1545.0	1657.7	1697.4
45°	1240.3	1328.6	1474.9	1593.8	1633.4
47.5°	1161.0	1249.4	1401.8	1526.7	1566.3
50°	1078.8	1170.2	1328.6	1456.6	1496.2
52.5°	990.4	1090.9	1255.5	1383.5	1429.2
55°	911.2	1011.7	1176.3	1310.4	1356.1
57.5°	828.9	932.5	1103.1	1231.1	1273.8
60°	752.7	853.3	1020.9	1145.8	1194.6
62.5°	670.4	774.0	938.6	1060.5	1106.2
65°	594.2	694.8	856.3	975.1	1017.8
67.5°	518.0	618.6	771.0	883.7	932.5
70°	441.9	542.4	682.6	792.3	835.0
72.5°	374.8	463.2	597.3	697.8	737.5
75°	301.7	390.1	502.8	591.2	609.5
77.5°	234.6	313.9	408.3	448.0	454.1
80°	173.7	234.6	298.6	307.8	307.8
82.5°	115.8	161.5	185.9	188.9	185.9
85°	70.1	85.3	88.4	76.2	70.1
87.5°	24.4	24.4	15.2	9.1	3.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)