

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: P389430

Luminaire Tested: **22CZ2-80VHE-S-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: P389430
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-23)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 2/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-80VHE-S-UNV-L950-CD1-SDWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 5000K, 90 LEDS, AND SMOOTH LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7521.8 lumens
Efficiency: N/A
Efficacy: 127.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

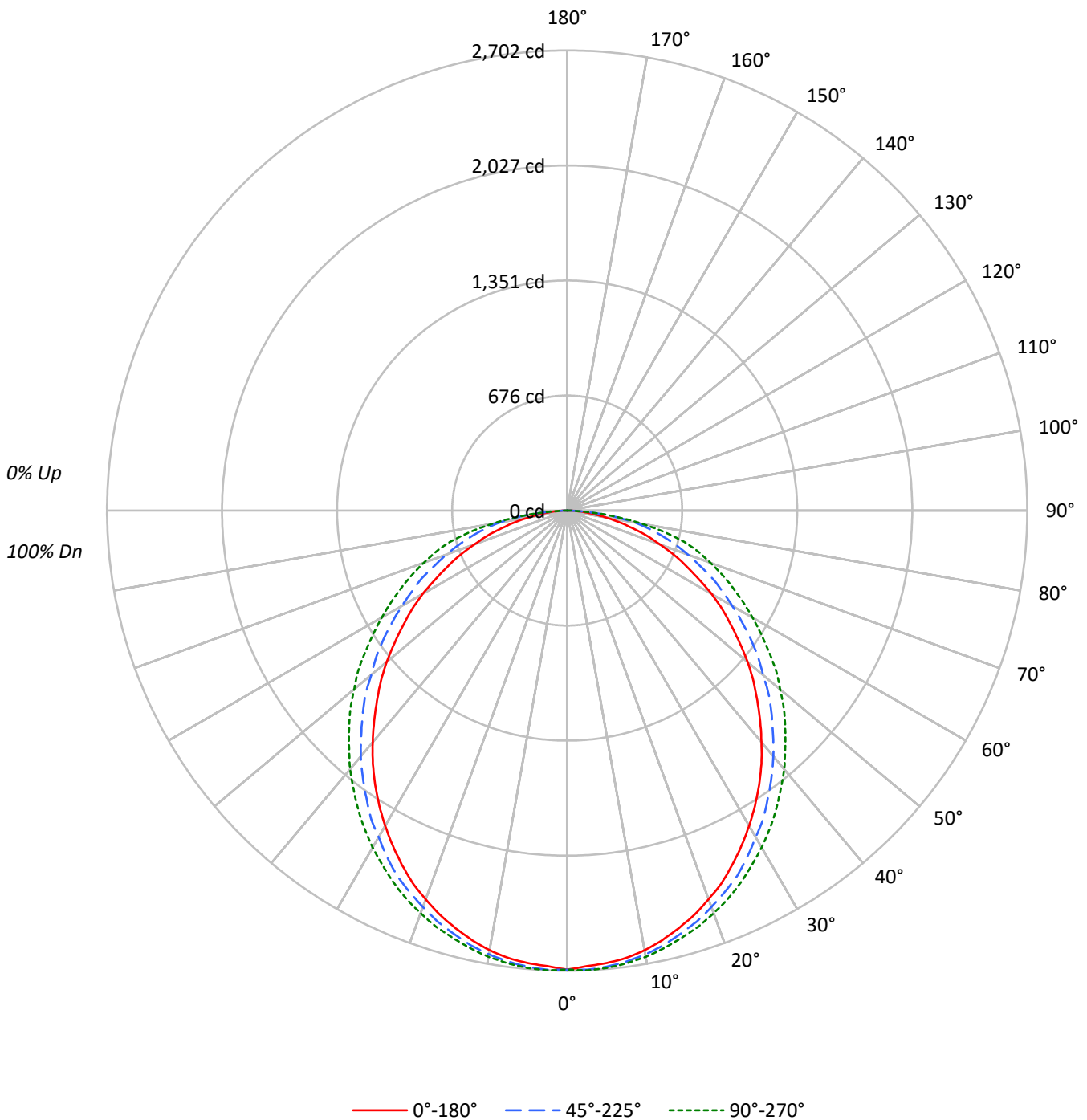
Input Watts (W): 59.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	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	69	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	51	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7253	7253	7253
5°	7205	7262	7281
10°	7163	7231	7269
15°	7069	7167	7235
20°	6955	7095	7206
25°	6815	7023	7159
30°	6641	6881	7099
35°	6456	6756	7033
40°	6238	6620	6966
45°	6010	6464	6892
50°	5789	6288	6832
55°	5516	6175	6784
60°	5270	6025	6762
65°	4916	5989	6838
70°	4529	5936	7041
75°	4087	6021	7407
80°	3535	6200	6961
85°	2927	5203	5203



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.9	3.4
10°-20°	725.4	9.6
20°-30°	1085.3	14.4
30°-40°	1285.3	17.1
40°-50°	1309.9	17.4
50°-60°	1174.0	15.6
60°-70°	919.2	12.2
70°-80°	592.7	7.9
80°-90°	175.1	2.3
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°	2065.6	27.5
0°-40°	3350.9	44.5
0°-60°	5834.8	77.6
0°-90°	7521.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7521.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2695	2695	2695	2695	2695	
5°	2667	2674	2688	2692	2695	253
15°	2537	2551	2572	2594	2597	715
25°	2295	2316	2365	2397	2411	1057
35°	1965	1990	2057	2120	2141	1228
45°	1579	1614	1699	1786	1811	1220
55°	1176	1214	1316	1407	1446	1054
65°	772	818	940	1032	1074	767
75°	393	453	579	677	712	421
85°	95	130	168	168	168	111
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2695.3	2695.3	2695.3	2695.3	2695.3
2.5°	2677.7	2684.8	2698.8	2702.3	2702.3
5°	2667.2	2674.2	2688.3	2691.8	2695.3
7.5°	2649.7	2653.2	2670.7	2677.7	2681.3
10°	2621.6	2628.6	2646.2	2656.7	2660.2
12.5°	2583.0	2593.5	2614.6	2628.6	2632.1
15°	2537.4	2551.4	2572.5	2593.5	2597.0
17.5°	2488.2	2502.3	2530.3	2554.9	2561.9
20°	2428.6	2446.1	2477.7	2505.8	2516.3
22.5°	2368.9	2382.9	2421.6	2456.6	2467.2
25°	2295.2	2316.3	2365.4	2397.0	2411.0
27.5°	2218.0	2242.6	2291.7	2333.8	2347.9
30°	2137.3	2161.9	2214.5	2267.1	2284.7
32.5°	2053.1	2081.1	2144.3	2196.9	2214.5
35°	1965.3	1989.9	2056.6	2119.7	2140.8
37.5°	1874.1	1895.1	1972.3	2039.0	2060.1
40°	1775.8	1803.9	1884.6	1961.8	1982.9
42.5°	1677.5	1709.1	1789.8	1874.1	1895.1
45°	1579.3	1614.4	1698.6	1786.3	1810.9
47.5°	1484.5	1512.6	1607.4	1691.6	1726.7
50°	1382.7	1410.8	1502.1	1596.8	1631.9
52.5°	1277.5	1316.1	1414.3	1505.6	1547.7
55°	1175.7	1214.3	1316.1	1407.3	1445.9
57.5°	1080.9	1112.5	1217.8	1312.6	1351.2
60°	979.2	1007.2	1119.5	1221.3	1256.4
62.5°	870.4	912.5	1028.3	1123.0	1165.2
65°	772.1	817.7	940.5	1031.8	1073.9
67.5°	680.8	723.0	842.3	940.5	986.2
70°	575.6	631.7	754.5	852.8	894.9
72.5°	491.3	540.5	666.8	765.1	810.7
75°	393.1	452.7	579.1	677.3	712.4
77.5°	312.3	372.0	491.3	568.5	586.1
80°	228.1	287.8	400.1	438.7	449.2
82.5°	154.4	210.6	287.8	298.3	301.8
85°	94.8	129.9	168.5	168.5	168.5
87.5°	45.6	52.6	59.7	56.2	56.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)