

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: P389494

Luminaire Tested: **22CZ2-95VHE-S-UNV-L930-CD1-SWPD1-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: P389494
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: 22CZ2-95VHE-S-UNV-L930-CD1-SWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 3000K, 90 LEDS, AND SMOOTH LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8227.9 lumens
Efficiency: N/A
Efficacy: 113.2 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

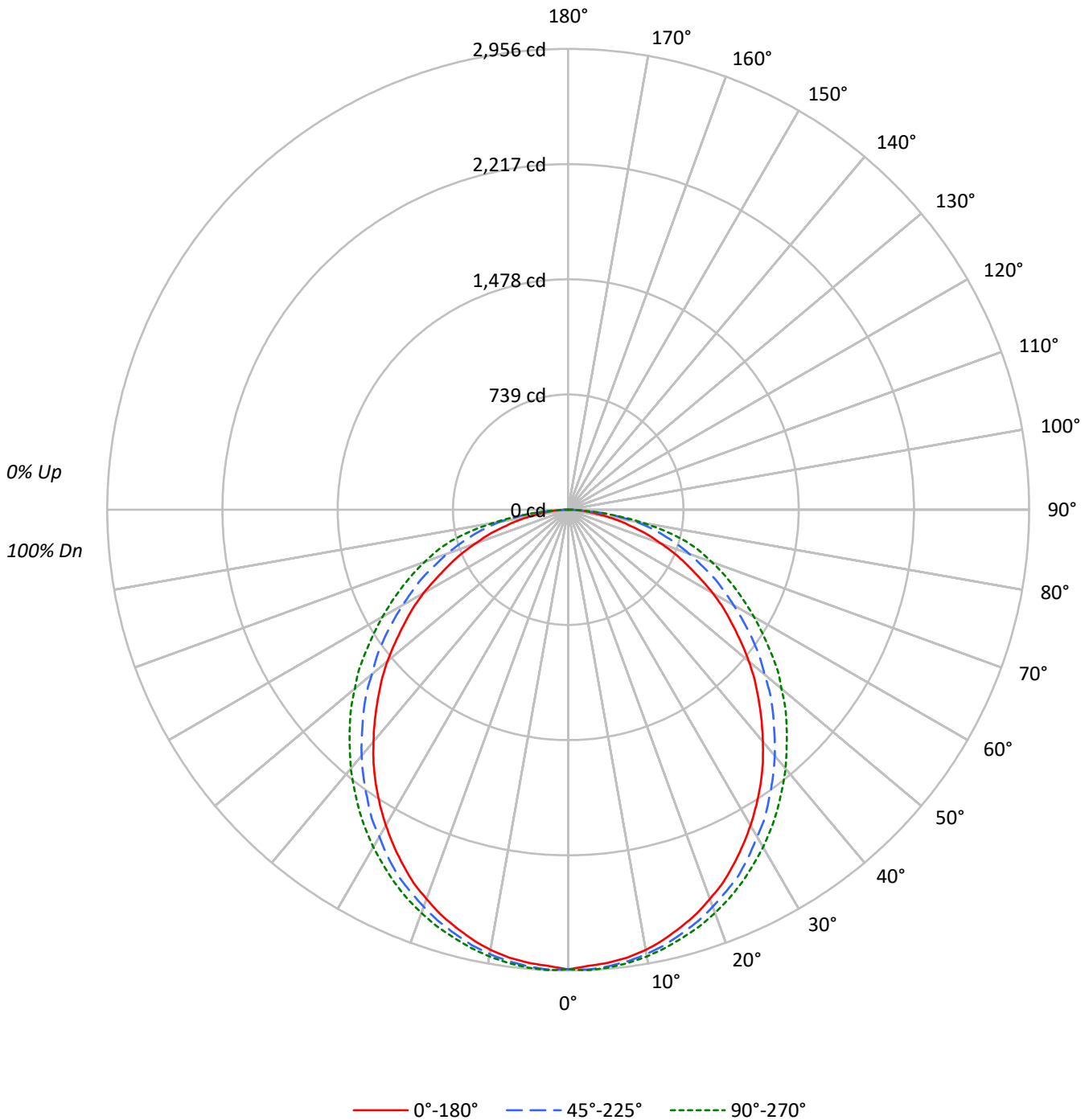
Input Watts (W): 72.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	7934	7934	7934
5°	7881	7943	7964
10°	7836	7909	7951
15°	7733	7839	7914
20°	7608	7761	7882
25°	7455	7683	7831
30°	7264	7527	7766
35°	7062	7390	7693
40°	6824	7242	7619
45°	6574	7071	7539
50°	6332	6879	7473
55°	6033	6754	7420
60°	5765	6591	7396
65°	5378	6551	7480
70°	4954	6494	7702
75°	4471	6586	8102
80°	3866	6781	7615
85°	3202	5690	5690



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.8	3.4
10°-20°	793.5	9.6
20°-30°	1187.2	14.4
30°-40°	1406.0	17.1
40°-50°	1432.9	17.4
50°-60°	1284.2	15.6
60°-70°	1005.5	12.2
70°-80°	648.3	7.9
80°-90°	191.5	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°	2259.5	27.5
0°-40°	3665.5	44.5
0°-60°	6382.6	77.6
0°-90°	8227.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8227.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2948	2948	2948	2948	2948	
5°	2918	2925	2941	2944	2948	277
15°	2776	2791	2814	2837	2841	783
25°	2511	2534	2588	2622	2637	1156
35°	2150	2177	2250	2319	2342	1344
45°	1728	1766	1858	1954	1981	1334
55°	1286	1328	1440	1539	1582	1153
65°	845	894	1029	1129	1175	839
75°	430	495	633	741	779	461
85°	104	142	184	184	184	122
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2948.3	2948.3	2948.3	2948.3	2948.3
2.5°	2929.1	2936.8	2952.2	2956.0	2956.0
5°	2917.6	2925.3	2940.6	2944.5	2948.3
7.5°	2898.4	2902.2	2921.4	2929.1	2933.0
10°	2867.7	2875.4	2894.6	2906.1	2909.9
12.5°	2825.5	2837.0	2860.0	2875.4	2879.2
15°	2775.6	2790.9	2813.9	2837.0	2840.8
17.5°	2721.8	2737.2	2767.9	2794.8	2802.4
20°	2656.6	2675.7	2710.3	2741.0	2752.5
22.5°	2591.3	2606.6	2648.9	2687.3	2698.8
25°	2510.7	2533.7	2587.5	2622.0	2637.4
27.5°	2426.2	2453.1	2506.8	2552.9	2568.3
30°	2337.9	2364.8	2422.4	2480.0	2499.2
32.5°	2245.8	2276.5	2345.6	2403.2	2422.4
35°	2149.8	2176.7	2249.6	2318.7	2341.8
37.5°	2050.0	2073.0	2157.5	2230.4	2253.5
40°	1942.5	1973.2	2061.5	2146.0	2169.0
42.5°	1835.0	1869.6	1957.9	2050.0	2073.0
45°	1727.5	1765.9	1858.1	1954.0	1980.9
47.5°	1623.9	1654.6	1758.2	1850.4	1888.8
50°	1512.5	1543.3	1643.1	1746.7	1785.1
52.5°	1397.4	1439.6	1547.1	1646.9	1693.0
55°	1286.0	1328.3	1439.6	1539.4	1581.6
57.5°	1182.4	1216.9	1332.1	1435.8	1478.0
60°	1071.1	1101.8	1224.6	1336.0	1374.3
62.5°	952.1	998.1	1124.8	1228.5	1274.5
65°	844.6	894.5	1028.8	1128.7	1174.7
67.5°	744.8	790.8	921.3	1028.8	1078.7
70°	629.6	691.0	825.4	932.9	978.9
72.5°	537.5	591.2	729.4	836.9	886.8
75°	430.0	495.2	633.4	740.9	779.3
77.5°	341.7	406.9	537.5	621.9	641.1
80°	249.5	314.8	437.6	479.9	491.4
82.5°	168.9	230.3	314.8	326.3	330.1
85°	103.7	142.0	184.3	184.3	184.3
87.5°	49.9	57.6	65.3	61.4	61.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)