

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: P389503

Luminaire Tested: **22CZ2-95VHE-S-UNV-L950-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: P389503
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-L950-CD1-SWPD1-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: 9041.9 lumens
Efficiency: N/A
Efficacy: 124.4 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

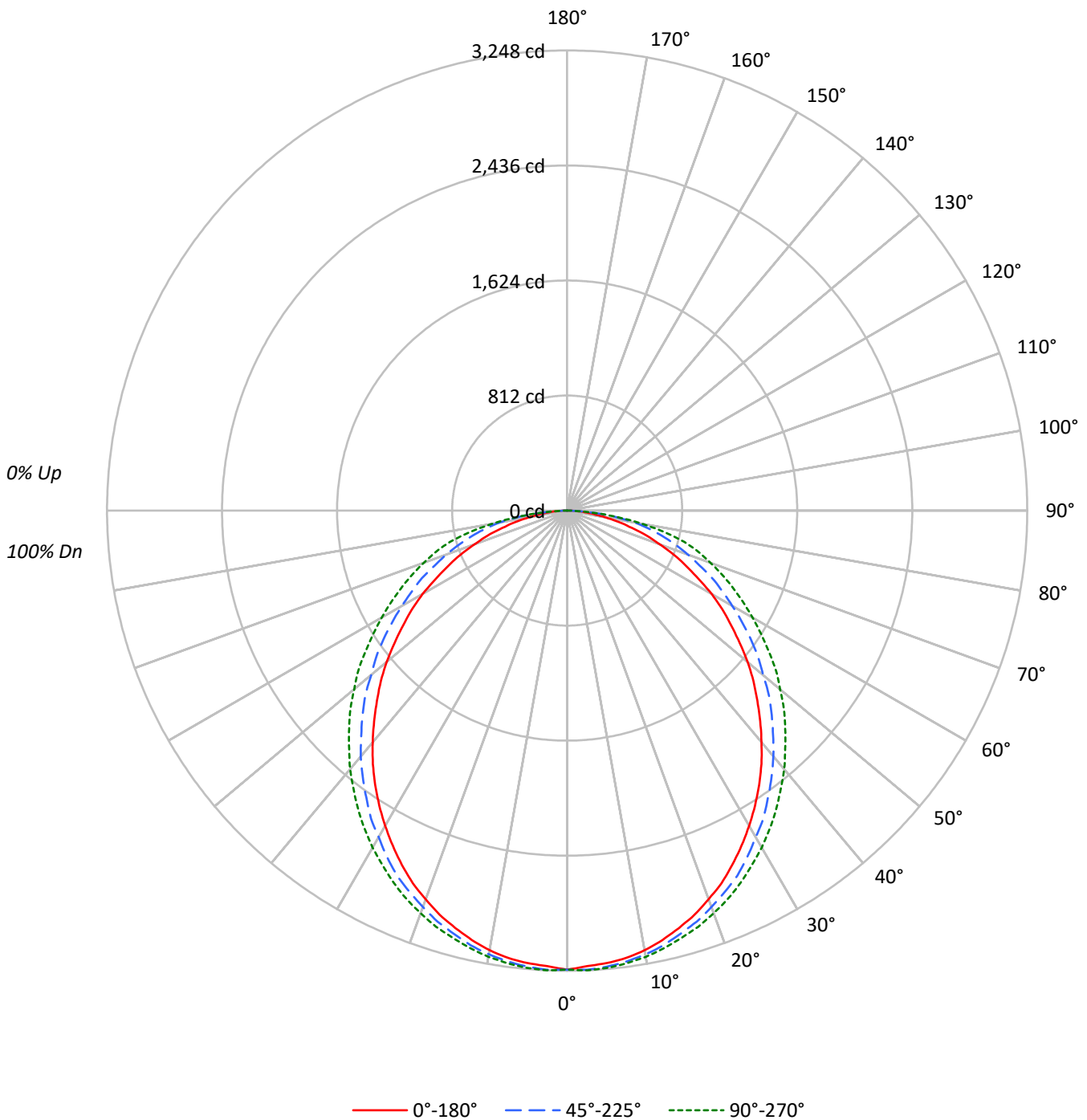
Input Watts (W): 72.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	8719	8719	8719
5°	8661	8729	8752
10°	8611	8692	8738
15°	8498	8615	8697
20°	8360	8529	8662
25°	8192	8443	8606
30°	7983	8272	8534
35°	7761	8121	8454
40°	7499	7958	8373
45°	7225	7771	8284
50°	6959	7559	8212
55°	6631	7422	8154
60°	6335	7243	8128
65°	5910	7199	8220
70°	5444	7136	8464
75°	4913	7237	8904
80°	4249	7452	8368
85°	3517	6252	6252



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.4	3.4
10°-20°	872.0	9.6
20°-30°	1304.7	14.4
30°-40°	1545.1	17.1
40°-50°	1574.6	17.4
50°-60°	1411.3	15.6
60°-70°	1104.9	12.2
70°-80°	712.5	7.9
80°-90°	210.5	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°	2483.0	27.5
0°-40°	4028.1	44.5
0°-60°	7014.0	77.6
0°-90°	9041.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9041.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3240	3240	3240	3240	3240	
5°	3206	3215	3232	3236	3240	304
15°	3050	3067	3092	3118	3122	860
25°	2759	2784	2843	2881	2898	1270
35°	2362	2392	2472	2548	2573	1477
45°	1898	1941	2042	2147	2177	1466
55°	1413	1460	1582	1692	1738	1267
65°	928	983	1131	1240	1291	922
75°	472	544	696	814	856	507
85°	114	156	202	202	202	134
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3240.0	3240.0	3240.0	3240.0	3240.0
2.5°	3218.9	3227.3	3244.2	3248.4	3248.4
5°	3206.2	3214.7	3231.6	3235.8	3240.0
7.5°	3185.2	3189.4	3210.5	3218.9	3223.1
10°	3151.4	3159.8	3180.9	3193.6	3197.8
12.5°	3105.0	3117.7	3143.0	3159.8	3164.1
15°	3050.2	3067.0	3092.3	3117.7	3121.9
17.5°	2991.1	3008.0	3041.7	3071.2	3079.7
20°	2919.4	2940.5	2978.4	3012.2	3024.8
22.5°	2847.7	2864.5	2910.9	2953.1	2965.8
25°	2759.1	2784.4	2843.4	2881.4	2898.3
27.5°	2666.2	2695.8	2754.8	2805.5	2822.3
30°	2569.2	2598.7	2662.0	2725.3	2746.4
32.5°	2468.0	2501.7	2577.7	2640.9	2662.0
35°	2362.5	2392.0	2472.2	2548.1	2573.4
37.5°	2252.8	2278.1	2370.9	2451.1	2476.4
40°	2134.7	2168.4	2265.5	2358.3	2383.6
42.5°	2016.6	2054.5	2151.6	2252.8	2278.1
45°	1898.4	1940.6	2041.9	2147.3	2176.9
47.5°	1784.5	1818.3	1932.2	2033.4	2075.6
50°	1662.2	1695.9	1805.6	1919.5	1961.7
52.5°	1535.6	1582.0	1700.2	1809.8	1860.5
55°	1413.3	1459.7	1582.0	1691.7	1738.1
57.5°	1299.4	1337.3	1463.9	1577.8	1624.2
60°	1177.0	1210.8	1345.8	1468.1	1510.3
62.5°	1046.2	1096.9	1236.1	1350.0	1400.6
65°	928.1	983.0	1130.6	1240.3	1290.9
67.5°	818.4	869.1	1012.5	1130.6	1185.5
70°	691.9	759.4	907.0	1025.2	1075.8
72.5°	590.6	649.7	801.6	919.7	974.5
75°	472.5	544.2	696.1	814.2	856.4
77.5°	375.5	447.2	590.6	683.4	704.5
80°	274.2	345.9	480.9	527.3	540.0
82.5°	185.6	253.1	345.9	358.6	362.8
85°	113.9	156.1	202.5	202.5	202.5
87.5°	54.8	63.3	71.7	67.5	67.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)