

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: P389502

Luminaire Tested: **22CZ2-95VHE-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: P389502
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-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: 8932.9 lumens
Efficiency: N/A
Efficacy: 122.9 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

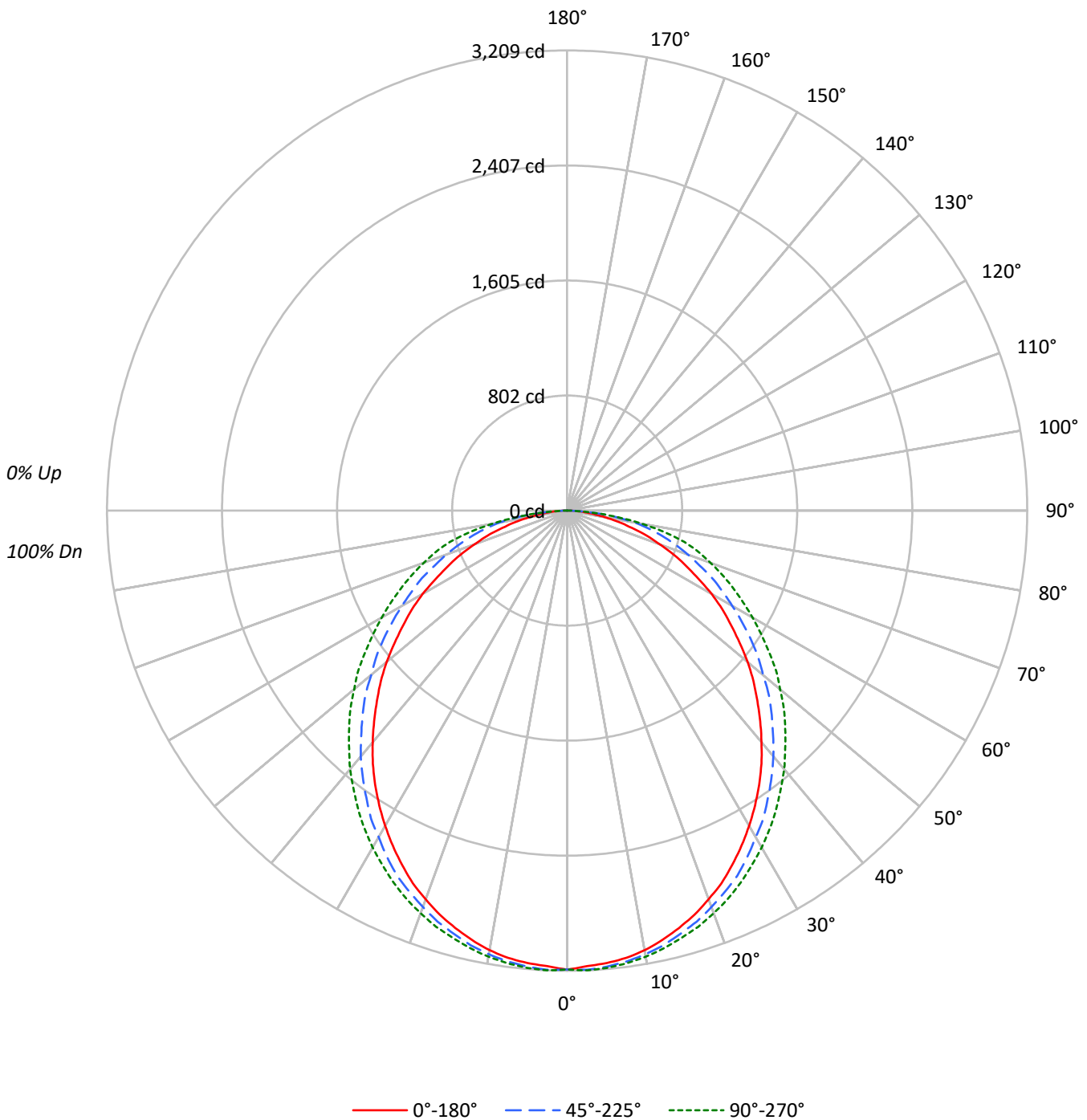
Input Watts (W): 72.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	8614	8614	8614
5°	8557	8624	8646
10°	8507	8587	8633
15°	8395	8511	8592
20°	8259	8426	8558
25°	8093	8341	8502
30°	7887	8172	8431
35°	7667	8023	8352
40°	7409	7862	8272
45°	7137	7677	8184
50°	6875	7468	8114
55°	6550	7333	8056
60°	6258	7156	8030
65°	5838	7112	8121
70°	5378	7050	8362
75°	4853	7150	8797
80°	4198	7362	8268
85°	3473	6178	6178



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.7	3.4
10°-20°	861.5	9.6
20°-30°	1288.9	14.4
30°-40°	1526.4	17.1
40°-50°	1555.6	17.4
50°-60°	1394.3	15.6
60°-70°	1091.6	12.2
70°-80°	703.9	7.9
80°-90°	208.0	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°	2453.1	27.5
0°-40°	3979.5	44.5
0°-60°	6929.5	77.6
0°-90°	8932.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8932.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3201	3201	3201	3201	3201	
5°	3168	3176	3193	3197	3201	301
15°	3013	3030	3055	3080	3084	850
25°	2726	2751	2809	2847	2863	1255
35°	2334	2363	2442	2517	2542	1459
45°	1876	1917	2017	2122	2151	1448
55°	1396	1442	1563	1671	1717	1252
65°	917	971	1117	1225	1275	911
75°	467	538	688	804	846	500
85°	112	154	200	200	200	132
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3200.9	3200.9	3200.9	3200.9	3200.9
2.5°	3180.1	3188.4	3205.1	3209.3	3209.3
5°	3167.6	3175.9	3192.6	3196.8	3200.9
7.5°	3146.8	3150.9	3171.8	3180.1	3184.3
10°	3113.4	3121.7	3142.6	3155.1	3159.3
12.5°	3067.6	3080.1	3105.1	3121.7	3125.9
15°	3013.4	3030.1	3055.1	3080.1	3084.2
17.5°	2955.0	2971.7	3005.0	3034.2	3042.6
20°	2884.2	2905.0	2942.5	2975.9	2988.4
22.5°	2813.3	2830.0	2875.8	2917.5	2930.0
25°	2725.8	2750.8	2809.2	2846.7	2863.3
27.5°	2634.1	2663.3	2721.6	2771.6	2788.3
30°	2538.2	2567.4	2629.9	2692.5	2713.3
32.5°	2438.2	2471.6	2546.6	2609.1	2629.9
35°	2334.0	2363.2	2442.4	2517.4	2542.4
37.5°	2225.7	2250.7	2342.4	2421.5	2446.5
40°	2109.0	2142.3	2238.2	2329.8	2354.9
42.5°	1992.2	2029.8	2125.6	2225.7	2250.7
45°	1875.5	1917.2	2017.3	2121.5	2150.6
47.5°	1763.0	1796.4	1908.9	2008.9	2050.6
50°	1642.1	1675.5	1783.9	1896.4	1938.1
52.5°	1517.1	1563.0	1679.7	1788.0	1838.0
55°	1396.2	1442.1	1563.0	1671.3	1717.2
57.5°	1283.7	1321.2	1446.3	1558.8	1604.6
60°	1162.8	1196.2	1329.6	1450.4	1492.1
62.5°	1033.6	1083.7	1221.2	1333.7	1383.7
65°	916.9	971.1	1117.0	1225.4	1275.4
67.5°	808.6	858.6	1000.3	1117.0	1171.2
70°	683.5	750.2	896.1	1012.8	1062.8
72.5°	583.5	641.9	791.9	908.6	962.8
75°	466.8	537.7	687.7	804.4	846.1
77.5°	370.9	441.8	583.5	675.2	696.0
80°	270.9	341.8	475.1	521.0	533.5
82.5°	183.4	250.1	341.8	354.3	358.4
85°	112.5	154.2	200.1	200.1	200.1
87.5°	54.2	62.5	70.9	66.7	66.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)