

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: P388565

Luminaire Tested: **22CZ2-95VHE-UNV-L940-CD1-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: P388565
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-27)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 2/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-95VHE-UNV-L940-CD1-U
Description: 2x2 CRUZE LED TROFFER WITH 4000K, 90 LEDS, AND RIBBED LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

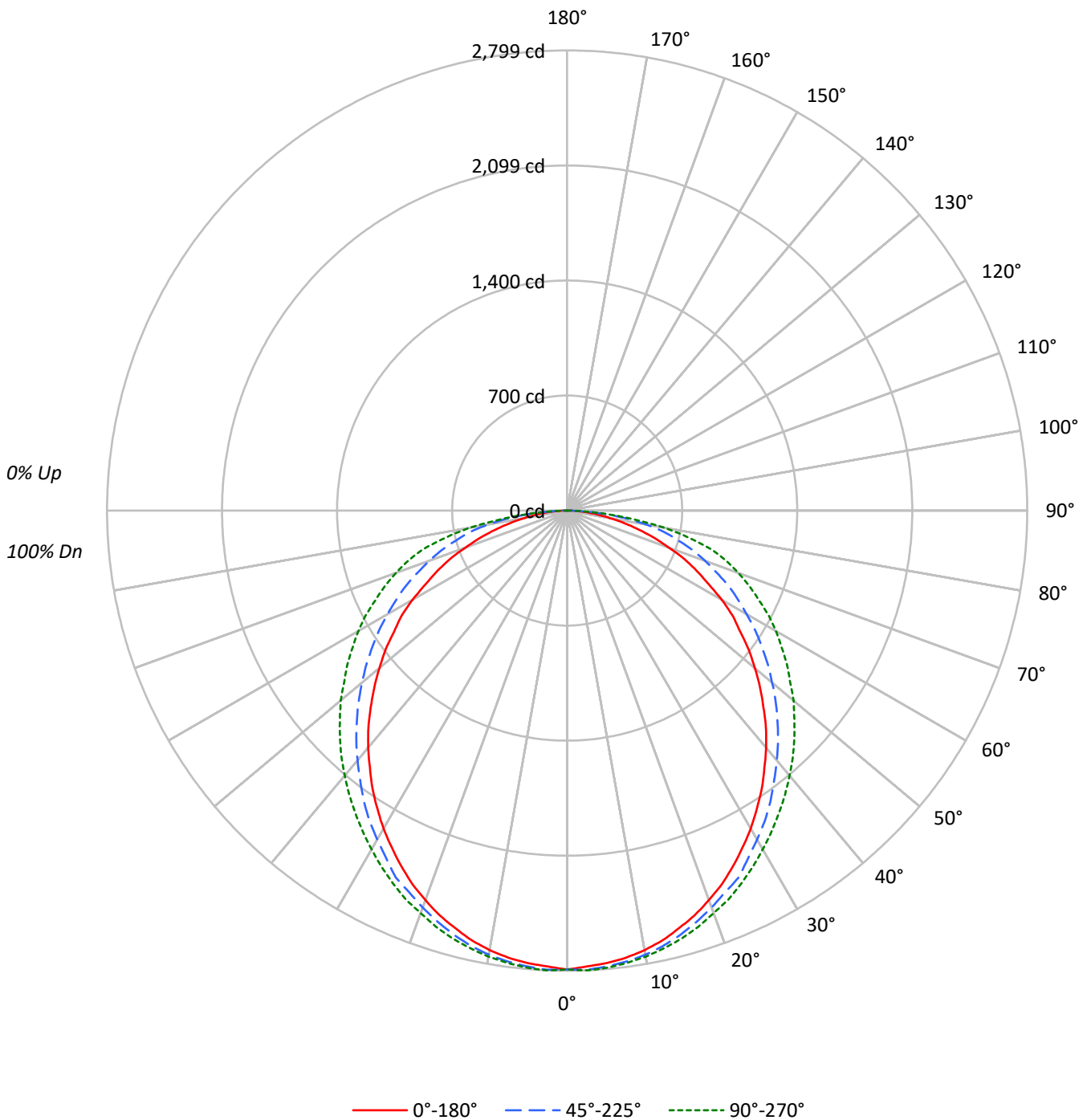
Lumens per Lamp: N/A
Luminaire Lumens: 8209.1 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	86	84
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70
3	89	78	69	63	86	76	68	62	73	66	61	70	65	60	68	63	59
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	44
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7511	7511	7511
5°	7464	7518	7540
10°	7417	7495	7528
15°	7326	7439	7506
20°	7218	7357	7461
25°	7088	7316	7436
30°	6941	7180	7393
35°	6781	7086	7378
40°	6613	6967	7393
45°	6426	6887	7440
50°	6240	6815	7525
55°	6026	6784	7656
60°	5848	6783	7892
65°	5556	6893	8179
70°	5180	7024	8708
75°	4746	7266	9407
80°	4131	7575	9264
85°	3616	6734	7358



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.0	3.2
10°-20°	751.9	9.2
20°-30°	1128.7	13.7
30°-40°	1348.7	16.4
40°-50°	1402.5	17.1
50°-60°	1299.9	15.8
60°-70°	1066.2	13.0
70°-80°	720.8	8.8
80°-90°	226.5	2.8
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°	2144.6	26.1
0°-40°	3493.3	42.6
0°-60°	6195.6	75.5
0°-90°	8209.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8209.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2791	2791	2791	2791	2791	
5°	2763	2767	2783	2787	2791	262
15°	2630	2642	2670	2686	2694	742
25°	2387	2408	2464	2492	2504	1099
35°	2064	2092	2157	2222	2246	1290
45°	1688	1721	1810	1915	1955	1304
55°	1284	1325	1446	1575	1632	1154
65°	872	921	1083	1224	1284	862
75°	456	533	699	840	905	484
85°	117	162	218	242	238	133
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2791.2	2791.2	2791.2	2791.2	2791.2
2.5°	2775.1	2783.2	2795.3	2799.3	2799.3
5°	2763.0	2767.0	2783.2	2787.2	2791.2
7.5°	2742.8	2750.9	2767.0	2771.0	2775.1
10°	2714.5	2722.6	2742.8	2750.9	2754.9
12.5°	2678.1	2686.2	2710.5	2722.6	2726.6
15°	2629.7	2641.8	2670.1	2686.2	2694.3
17.5°	2581.2	2593.3	2621.6	2645.8	2653.9
20°	2520.6	2548.9	2569.1	2601.4	2605.4
22.5°	2460.0	2476.2	2512.5	2544.8	2561.0
25°	2387.3	2407.5	2464.1	2492.3	2504.4
27.5°	2310.6	2338.8	2383.3	2427.7	2443.9
30°	2233.8	2254.0	2310.6	2363.1	2379.2
32.5°	2149.0	2177.3	2237.8	2290.4	2314.6
35°	2064.1	2092.4	2157.1	2221.7	2245.9
37.5°	1971.2	2003.6	2068.2	2144.9	2177.3
40°	1882.4	1906.6	1983.4	2076.3	2104.5
42.5°	1789.5	1817.7	1898.5	1999.5	2031.8
45°	1688.5	1720.8	1809.7	1914.7	1955.1
47.5°	1591.5	1623.9	1720.8	1825.8	1874.3
50°	1490.5	1530.9	1627.9	1749.1	1797.5
52.5°	1393.6	1430.0	1539.0	1664.2	1708.7
55°	1284.5	1324.9	1446.1	1575.4	1631.9
57.5°	1195.7	1223.9	1357.2	1490.5	1547.1
60°	1086.6	1123.0	1260.3	1401.7	1466.3
62.5°	969.5	1030.1	1171.4	1316.9	1381.5
65°	872.5	921.0	1082.6	1223.9	1284.5
67.5°	771.5	824.0	981.6	1131.0	1199.7
70°	658.4	727.1	892.7	1042.2	1106.8
72.5°	557.4	630.2	799.8	945.2	1013.9
75°	456.5	533.2	698.8	840.2	904.8
77.5°	359.5	444.3	605.9	715.0	755.4
80°	266.6	347.4	488.8	565.5	597.8
82.5°	185.8	254.5	359.5	399.9	408.0
85°	117.1	161.6	218.1	242.4	238.3
87.5°	52.5	64.6	80.8	88.9	84.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)