

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: P389504

Luminaire Tested: **22CZ2-95VHE-S-UNV-L950-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: P389504
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-U
Description: 2x2 CRUZE LED TROFFER WITH 5000K, 90 LEDS, AND SMOOTH LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

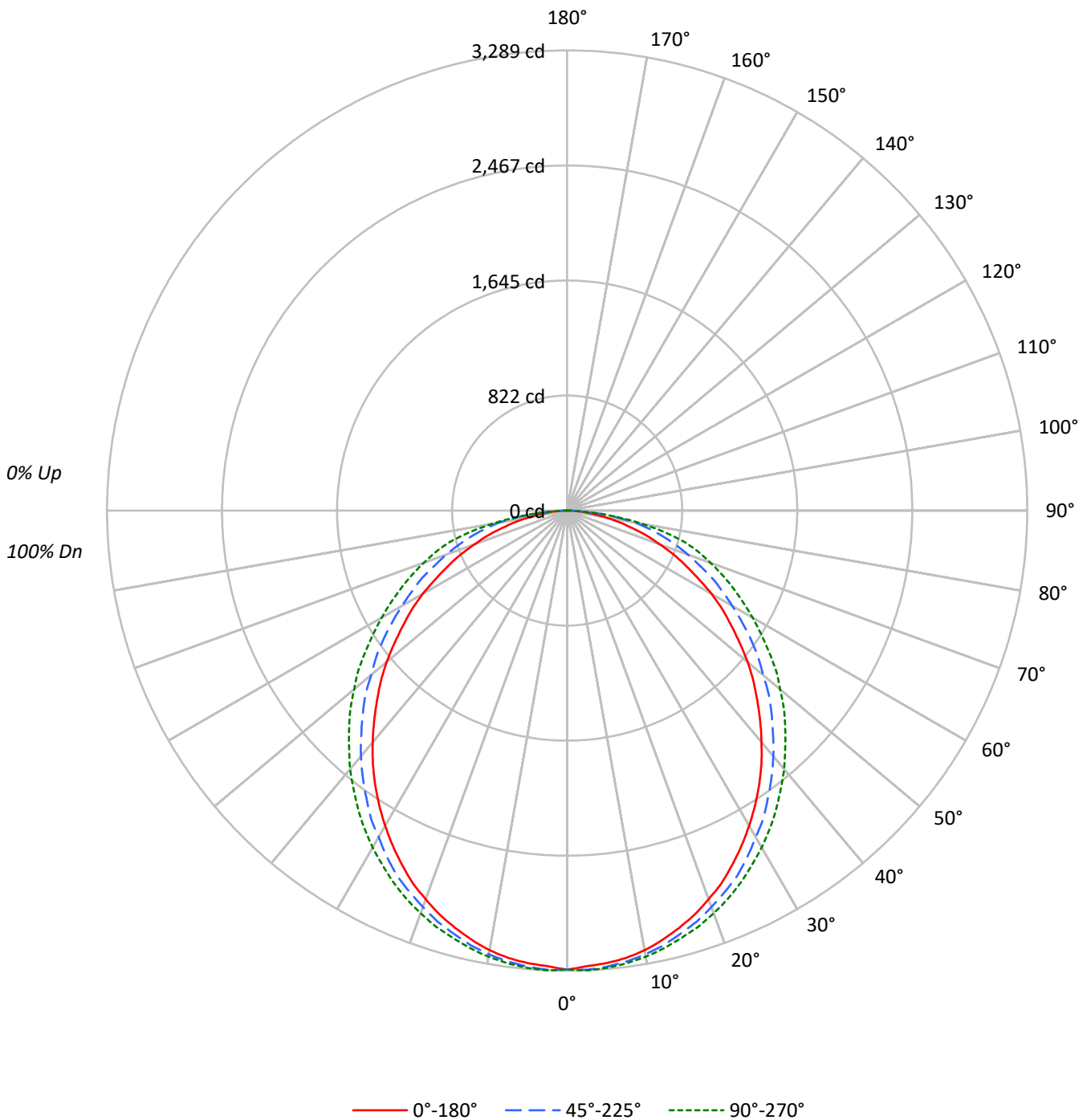
Lumens per Lamp: N/A
Luminaire Lumens: 9155.5 lumens
Efficiency: N/A
Efficacy: 125.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	8828	8828	8828
5°	8770	8839	8862
10°	8719	8801	8848
15°	8604	8723	8807
20°	8465	8637	8771
25°	8295	8549	8714
30°	8084	8376	8641
35°	7859	8223	8560
40°	7593	8058	8478
45°	7316	7868	8388
50°	7046	7654	8316
55°	6714	7515	8257
60°	6414	7334	8231
65°	5984	7289	8323
70°	5512	7226	8570
75°	4974	7328	9016
80°	4303	7547	8474
85°	3560	6329	6329



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.2	3.4
10°-20°	882.9	9.6
20°-30°	1321.1	14.4
30°-40°	1564.5	17.1
40°-50°	1594.4	17.4
50°-60°	1429.0	15.6
60°-70°	1118.8	12.2
70°-80°	721.4	7.9
80°-90°	213.1	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°	2514.2	27.5
0°-40°	4078.7	44.5
0°-60°	7102.1	77.6
0°-90°	9155.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9155.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3281	3281	3281	3281	3281	
5°	3246	3255	3272	3276	3281	308
15°	3088	3106	3131	3157	3161	871
25°	2794	2819	2879	2918	2935	1286
35°	2392	2422	2503	2580	2606	1495
45°	1922	1965	2068	2174	2204	1485
55°	1431	1478	1602	1713	1760	1283
65°	940	995	1145	1256	1307	934
75°	478	551	705	824	867	513
85°	115	158	205	205	205	135
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3280.7	3280.7	3280.7	3280.7	3280.7
2.5°	3259.3	3267.9	3285.0	3289.2	3289.2
5°	3246.5	3255.1	3272.2	3276.4	3280.7
7.5°	3225.2	3229.4	3250.8	3259.3	3263.6
10°	3191.0	3199.5	3220.9	3233.7	3238.0
12.5°	3144.0	3156.8	3182.5	3199.5	3203.8
15°	3088.5	3105.6	3131.2	3156.8	3161.1
17.5°	3028.7	3045.8	3079.9	3109.8	3118.4
20°	2956.0	2977.4	3015.9	3050.0	3062.8
22.5°	2883.4	2900.5	2947.5	2990.2	3003.0
25°	2793.7	2819.4	2879.2	2917.6	2934.7
27.5°	2699.7	2729.6	2789.5	2840.7	2857.8
30°	2601.5	2631.4	2695.5	2759.5	2780.9
32.5°	2499.0	2533.1	2610.0	2674.1	2695.5
35°	2392.2	2422.1	2503.2	2580.1	2605.8
37.5°	2281.1	2306.7	2400.7	2481.9	2507.5
40°	2161.5	2195.7	2293.9	2387.9	2413.5
42.5°	2041.9	2080.3	2178.6	2281.1	2306.7
45°	1922.3	1965.0	2067.5	2174.3	2204.2
47.5°	1806.9	1841.1	1956.5	2059.0	2101.7
50°	1683.1	1717.2	1828.3	1943.6	1986.4
52.5°	1554.9	1601.9	1721.5	1832.6	1883.8
55°	1431.0	1478.0	1601.9	1713.0	1760.0
57.5°	1315.7	1354.1	1482.3	1597.6	1644.6
60°	1191.8	1226.0	1362.7	1486.6	1529.3
62.5°	1059.4	1110.7	1251.6	1367.0	1418.2
65°	939.8	995.3	1144.8	1255.9	1307.2
67.5°	828.7	880.0	1025.2	1144.8	1200.4
70°	700.6	768.9	918.4	1038.0	1089.3
72.5°	598.0	657.8	811.6	931.2	986.8
75°	478.4	551.1	704.8	824.4	867.2
77.5°	380.2	452.8	598.0	692.0	713.4
80°	277.7	350.3	487.0	534.0	546.8
82.5°	188.0	256.3	350.3	363.1	367.4
85°	115.3	158.1	205.0	205.0	205.0
87.5°	55.5	64.1	72.6	68.3	68.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)