

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: P390343

Luminaire Tested: **22CZ2-39VHE-RDP-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: P390343
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-24)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 2/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-39VHE-RDP-UNV-L950-CD1-SWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 5000K, 90 LEDS, AND RDP LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2456.0 lumens
Efficiency: N/A
Efficacy: 85.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

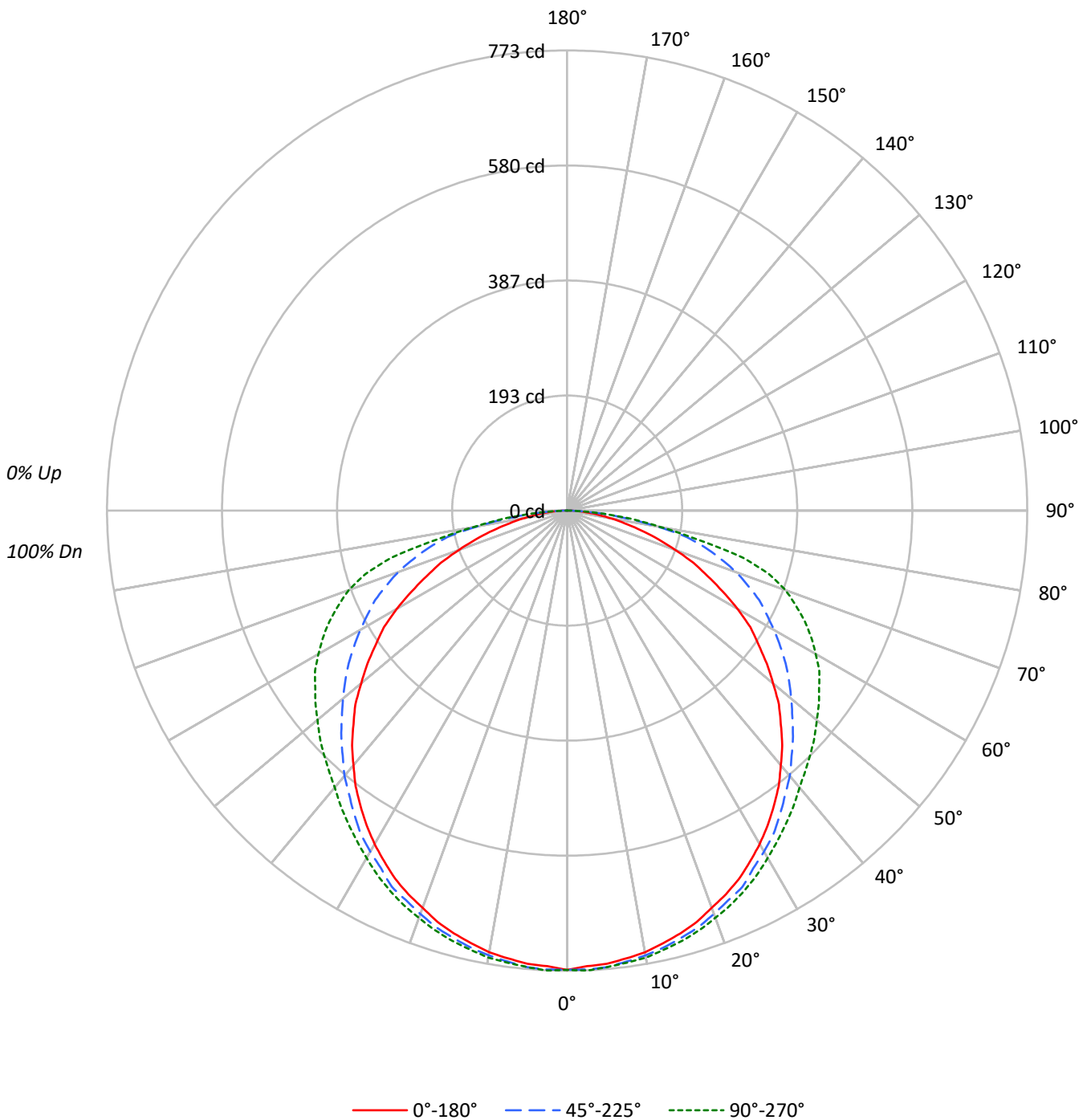
Input Watts (W): 28.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2076	2076	2076
5°	2064	2079	2079
10°	2059	2073	2083
15°	2048	2069	2084
20°	2033	2064	2085
25°	2028	2071	2092
30°	2010	2055	2094
35°	1988	2048	2107
40°	1961	2044	2133
45°	1932	2042	2200
50°	1891	2057	2292
55°	1840	2102	2424
60°	1779	2159	2596
65°	1657	2266	2807
70°	1521	2374	3071
75°	1334	2498	3174
80°	1148	2380	2492
85°	1003	1729	1896



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.0	3.0
10°-20°	209.5	8.5
20°-30°	319.7	13.0
30°-40°	390.3	15.9
40°-50°	417.3	17.0
50°-60°	402.8	16.4
60°-70°	346.8	14.1
70°-80°	234.6	9.6
80°-90°	61.9	2.5
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°	602.2	24.5
0°-40°	992.5	40.4
0°-60°	1812.7	73.8
0°-90°	2456.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2456.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	772	772	772	772	772	
5°	764	766	770	770	770	73
15°	735	737	743	746	748	207
25°	683	687	697	701	705	314
35°	605	611	623	636	641	379
45°	508	517	537	564	578	392
55°	392	405	448	493	517	351
65°	260	286	356	412	441	259
75°	128	170	240	289	305	138
85°	32	45	56	58	61	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	771.5	771.5	771.5	771.5	771.5
2.5°	766.1	767.9	771.5	771.5	773.3
5°	764.2	766.1	769.7	769.7	769.7
7.5°	758.8	760.6	764.2	766.1	766.1
10°	753.4	755.2	758.8	760.6	762.4
12.5°	744.4	746.2	751.6	755.2	755.2
15°	735.3	737.1	742.6	746.2	748.0
17.5°	724.5	728.1	733.5	737.1	739.0
20°	710.0	713.7	720.9	726.3	728.1
22.5°	697.4	701.0	708.2	713.7	717.3
25°	682.9	686.6	697.4	701.0	704.6
27.5°	664.9	668.5	677.5	684.7	690.2
30°	646.8	650.4	661.3	670.3	673.9
32.5°	626.9	632.4	645.0	652.2	657.6
35°	605.3	610.7	623.3	636.0	641.4
37.5°	583.6	589.0	601.6	617.9	625.1
40°	558.3	565.5	581.8	603.4	607.1
42.5°	534.8	543.8	558.3	583.6	592.6
45°	507.7	516.7	536.6	563.7	578.2
47.5°	482.4	491.4	513.1	545.6	563.7
50°	451.7	464.3	491.4	529.4	547.4
52.5°	422.8	433.6	469.7	511.3	533.0
55°	392.1	404.7	448.1	493.2	516.7
57.5°	365.0	375.8	424.6	475.2	502.3
60°	330.6	345.1	401.1	455.3	482.4
62.5°	294.5	316.2	377.6	433.6	462.5
65°	260.2	285.5	355.9	411.9	440.8
67.5°	229.5	256.6	328.8	388.4	415.5
70°	193.3	227.6	301.7	359.5	390.3
72.5°	160.8	198.7	271.0	328.8	355.9
75°	128.3	169.8	240.3	289.1	305.3
77.5°	99.4	139.1	206.0	220.4	222.2
80°	74.1	110.2	153.6	155.4	160.8
82.5°	50.6	77.7	99.4	108.4	110.2
85°	32.5	45.2	56.0	57.8	61.4
87.5°	14.5	16.3	19.9	18.1	18.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)