

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: P390385

Luminaire Tested: **22CZ2-44VHE-RDP-UNV-L935-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: P390385
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: 22CZ2-44VHE-RDP-UNV-L935-CD1-SWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 3500K, 90 LEDS, AND RDP LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2594.5 lumens
Efficiency: N/A
Efficacy: 79.6 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

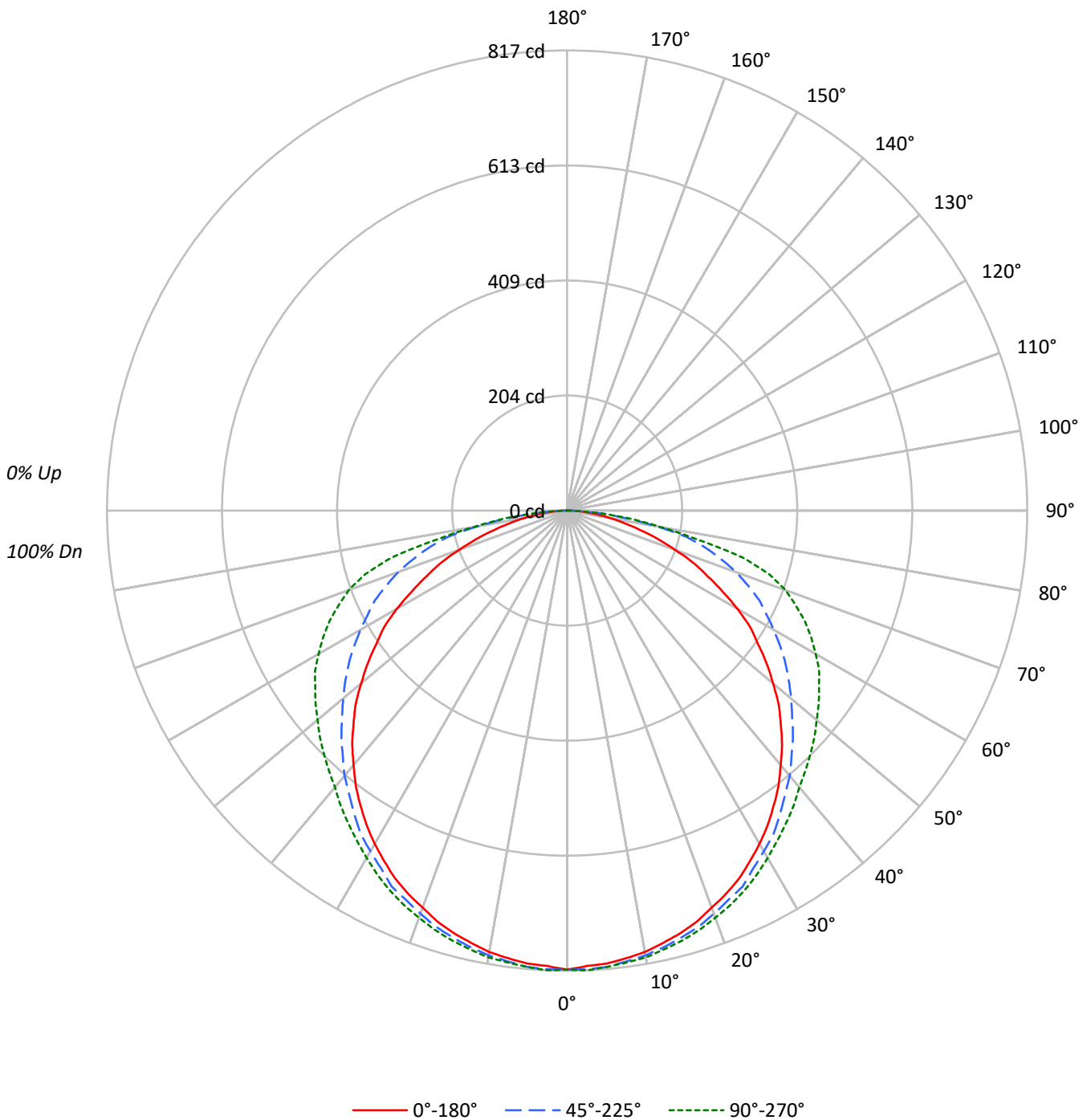
Input Watts (W): 32.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2193	2193	2193
5°	2181	2196	2196
10°	2175	2190	2201
15°	2164	2185	2201
20°	2148	2181	2203
25°	2142	2187	2210
30°	2123	2171	2212
35°	2100	2163	2226
40°	2072	2159	2253
45°	2041	2157	2324
50°	1998	2173	2421
55°	1943	2221	2561
60°	1880	2280	2743
65°	1750	2394	2965
70°	1607	2507	3244
75°	1409	2639	3354
80°	1213	2514	2633
85°	1062	1828	2004



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.1	3.0
10°-20°	221.3	8.5
20°-30°	337.7	13.0
30°-40°	412.3	15.9
40°-50°	440.9	17.0
50°-60°	425.5	16.4
60°-70°	366.3	14.1
70°-80°	247.9	9.6
80°-90°	65.4	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°	636.1	24.5
0°-40°	1048.5	40.4
0°-60°	1914.9	73.8
0°-90°	2594.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2594.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	815	815	815	815	815	
5°	807	809	813	813	813	77
15°	777	779	784	788	790	219
25°	722	725	737	740	744	332
35°	639	645	658	672	678	400
45°	536	546	567	596	611	414
55°	414	428	473	521	546	371
65°	275	302	376	435	466	273
75°	136	179	254	305	323	145
85°	34	48	59	61	65	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	815.0	815.0	815.0	815.0	815.0
2.5°	809.3	811.2	815.0	815.0	816.9
5°	807.3	809.3	813.1	813.1	813.1
7.5°	801.6	803.5	807.3	809.3	809.3
10°	795.9	797.8	801.6	803.5	805.4
12.5°	786.3	788.3	794.0	797.8	797.8
15°	776.8	778.7	784.4	788.3	790.2
17.5°	765.4	769.2	774.9	778.7	780.6
20°	750.1	753.9	761.5	767.3	769.2
22.5°	736.7	740.5	748.2	753.9	757.7
25°	721.5	725.3	736.7	740.5	744.4
27.5°	702.4	706.2	715.7	723.4	729.1
30°	683.3	687.1	698.6	708.1	711.9
32.5°	662.3	668.0	681.4	689.0	694.7
35°	639.4	645.1	658.5	671.8	677.6
37.5°	616.5	622.2	635.6	652.7	660.4
40°	589.8	597.4	614.6	637.5	641.3
42.5°	564.9	574.5	589.8	616.5	626.0
45°	536.3	545.9	566.9	595.5	610.8
47.5°	509.6	519.1	542.0	576.4	595.5
50°	477.2	490.5	519.1	559.2	578.3
52.5°	446.6	458.1	496.2	540.1	563.0
55°	414.2	427.5	473.3	521.1	545.9
57.5°	385.5	397.0	448.5	502.0	530.6
60°	349.3	364.5	423.7	481.0	509.6
62.5°	311.1	334.0	398.9	458.1	488.6
65°	274.8	301.6	376.0	435.2	465.7
67.5°	242.4	271.0	347.4	410.4	439.0
70°	204.2	240.5	318.7	379.8	412.3
72.5°	169.9	209.9	286.3	347.4	376.0
75°	135.5	179.4	253.8	305.4	322.6
77.5°	105.0	147.0	217.6	232.9	234.8
80°	78.3	116.4	162.2	164.1	169.9
82.5°	53.4	82.1	105.0	114.5	116.4
85°	34.4	47.7	59.2	61.1	64.9
87.5°	15.3	17.2	21.0	19.1	19.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)