

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: P390337

Luminaire Tested: **22CZ2-39VHE-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: P390337
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-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: 2290.1 lumens
Efficiency: N/A
Efficacy: 80.1 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

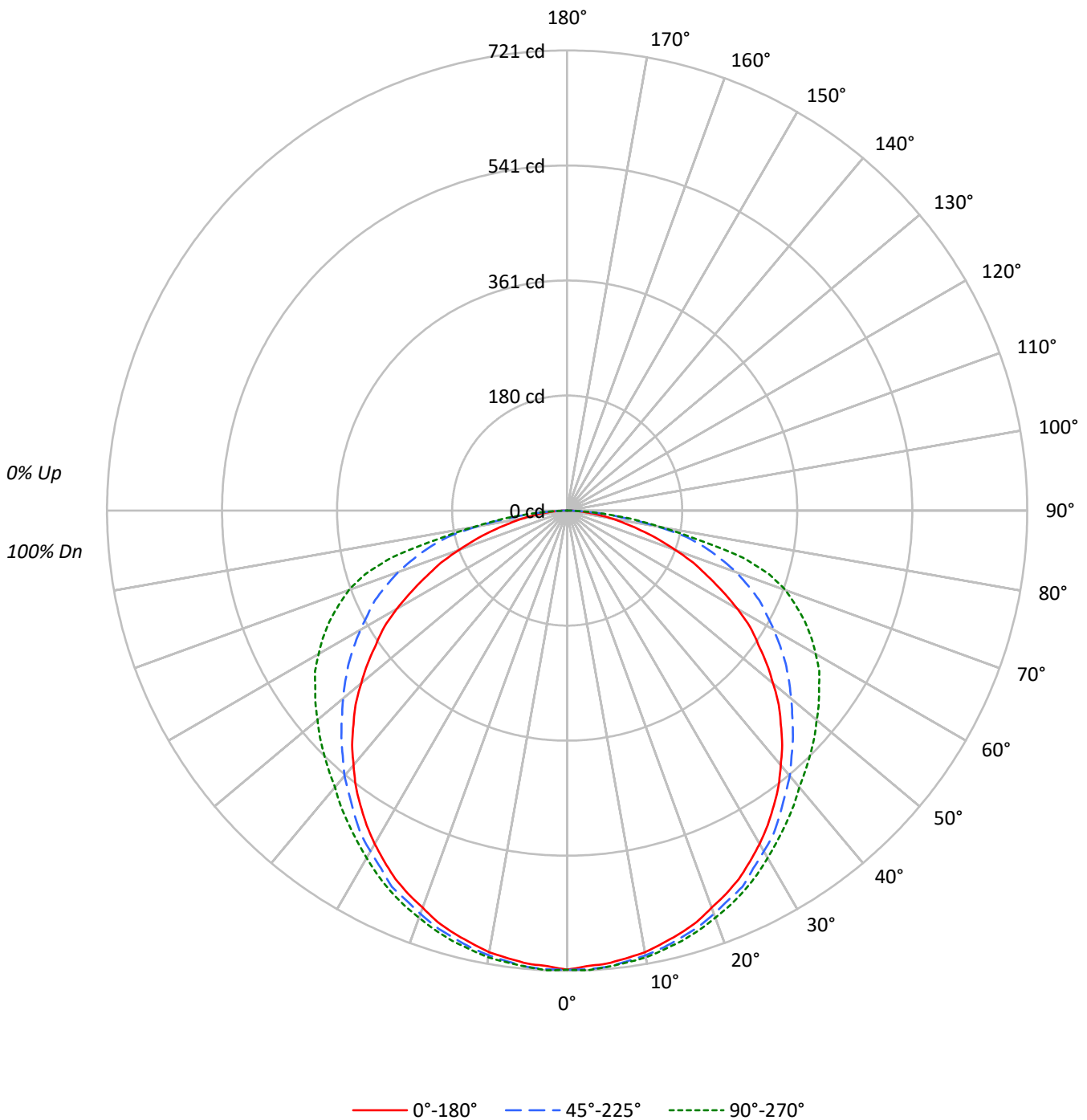
Input Watts (W): 28.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1936	1936	1936
5°	1925	1939	1939
10°	1920	1934	1943
15°	1910	1929	1943
20°	1896	1925	1944
25°	1891	1931	1951
30°	1874	1916	1953
35°	1854	1909	1965
40°	1829	1906	1989
45°	1802	1904	2052
50°	1763	1918	2137
55°	1715	1960	2260
60°	1659	2013	2421
65°	1545	2113	2618
70°	1419	2213	2863
75°	1243	2330	2960
80°	1071	2219	2323
85°	936	1612	1769



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.0	3.0
10°-20°	195.4	8.5
20°-30°	298.1	13.0
30°-40°	364.0	15.9
40°-50°	389.2	17.0
50°-60°	375.6	16.4
60°-70°	323.3	14.1
70°-80°	218.8	9.6
80°-90°	57.7	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°	561.5	24.5
0°-40°	925.5	40.4
0°-60°	1690.3	73.8
0°-90°	2290.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2290.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	719	719	719	719	719	
5°	713	714	718	718	718	68
15°	686	687	692	696	698	193
25°	637	640	650	654	657	293
35°	564	569	581	593	598	353
45°	473	482	500	526	539	365
55°	366	377	418	460	482	328
65°	243	266	332	384	411	241
75°	120	158	224	270	285	128
85°	30	42	52	54	57	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	719.4	719.4	719.4	719.4	719.4
2.5°	714.3	716.0	719.4	719.4	721.0
5°	712.6	714.3	717.7	717.7	717.7
7.5°	707.6	709.3	712.6	714.3	714.3
10°	702.5	704.2	707.6	709.3	710.9
12.5°	694.1	695.8	700.8	704.2	704.2
15°	685.7	687.4	692.4	695.8	697.5
17.5°	675.6	678.9	684.0	687.4	689.0
20°	662.1	665.5	672.2	677.2	678.9
22.5°	650.3	653.7	660.4	665.5	668.8
25°	636.8	640.2	650.3	653.7	657.0
27.5°	620.0	623.3	631.8	638.5	643.5
30°	603.1	606.5	616.6	625.0	628.4
32.5°	584.6	589.6	601.4	608.2	613.2
35°	564.4	569.4	581.2	593.0	598.1
37.5°	544.2	549.2	561.0	576.2	582.9
40°	520.6	527.3	542.5	562.7	566.1
42.5°	498.7	507.1	520.6	544.2	552.6
45°	473.4	481.8	500.4	525.6	539.1
47.5°	449.8	458.2	478.5	508.8	525.6
50°	421.2	433.0	458.2	493.6	510.5
52.5°	394.2	404.3	438.0	476.8	497.0
55°	365.6	377.4	417.8	459.9	481.8
57.5°	340.3	350.4	395.9	443.1	468.3
60°	308.3	321.8	374.0	424.5	449.8
62.5°	274.6	294.8	352.1	404.3	431.3
65°	242.6	266.2	331.9	384.1	411.1
67.5°	214.0	239.2	306.6	362.2	387.5
70°	180.3	212.3	281.3	335.3	363.9
72.5°	149.9	185.3	252.7	306.6	331.9
75°	119.6	158.4	224.1	269.5	284.7
77.5°	92.7	129.7	192.1	205.5	207.2
80°	69.1	102.8	143.2	144.9	149.9
82.5°	47.2	72.4	92.7	101.1	102.8
85°	30.3	42.1	52.2	53.9	57.3
87.5°	13.5	15.2	18.5	16.8	16.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)