

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: P390482

Luminaire Tested: **22CZ2-55VHE-RDP-UNV-L935-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: P390482
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: 22CZ2-55VHE-RDP-UNV-L935-CD1-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: 3144.6 lumens
Efficiency: N/A
Efficacy: 79.8 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

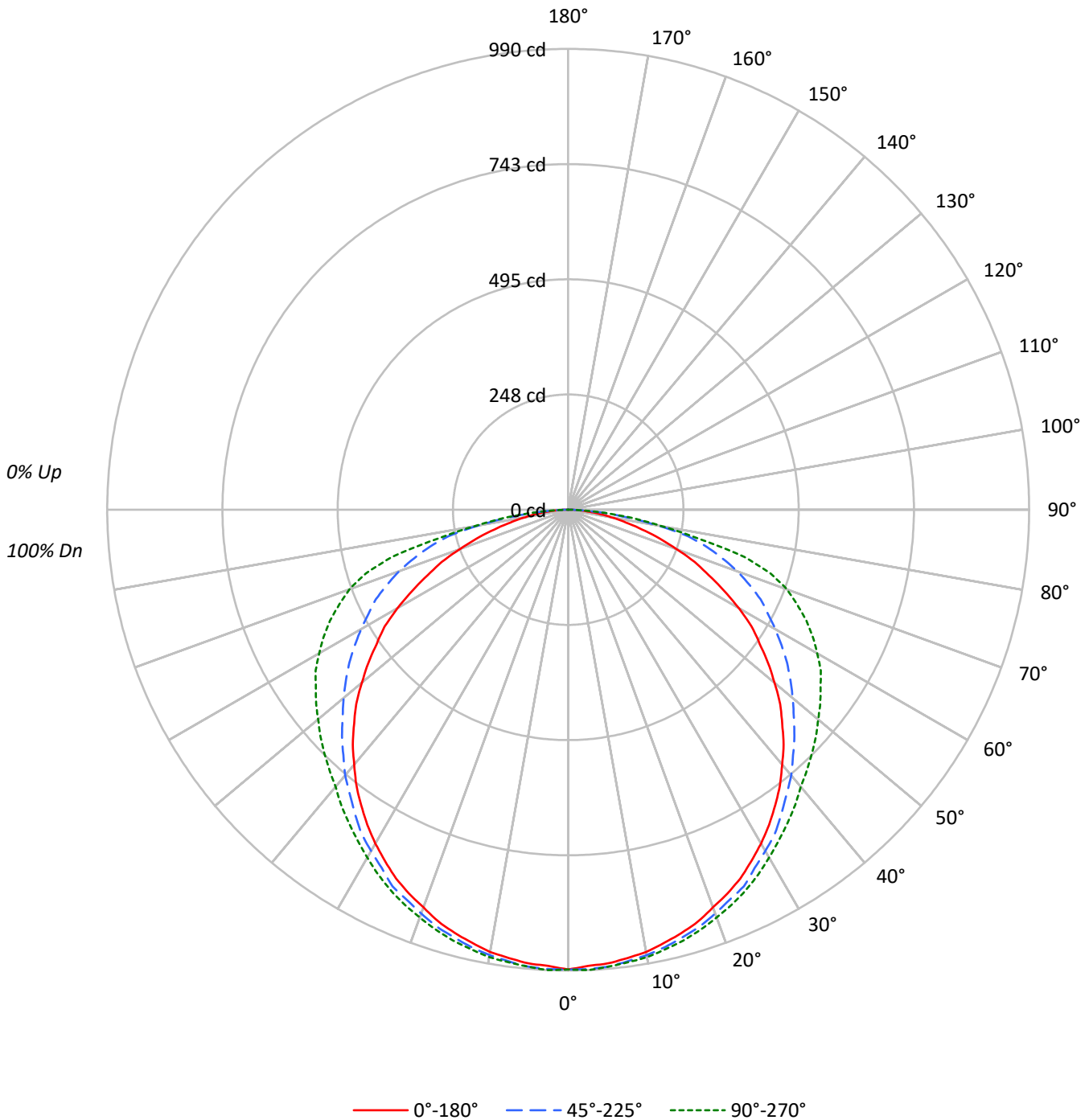
Input Watts (W): 39.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2658	2658	2658
5°	2643	2662	2662
10°	2636	2655	2667
15°	2623	2649	2668
20°	2603	2643	2670
25°	2596	2651	2679
30°	2573	2631	2681
35°	2546	2622	2698
40°	2511	2617	2731
45°	2474	2614	2817
50°	2421	2634	2934
55°	2355	2692	3104
60°	2278	2764	3324
65°	2121	2902	3594
70°	1947	3039	3932
75°	1707	3199	4064
80°	1469	3047	3191
85°	1284	2214	2430



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.4	3.0
10°-20°	268.3	8.5
20°-30°	409.3	13.0
30°-40°	499.8	15.9
40°-50°	534.4	17.0
50°-60°	515.8	16.4
60°-70°	444.0	14.1
70°-80°	300.4	9.6
80°-90°	79.3	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°	771.0	24.5
0°-40°	1270.8	40.4
0°-60°	2320.9	73.8
0°-90°	3144.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3144.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	988	988	988	988	988	
5°	978	981	986	986	986	93
15°	942	944	951	955	958	266
25°	874	879	893	898	902	402
35°	775	782	798	814	821	485
45°	650	662	687	722	740	502
55°	502	518	574	632	662	450
65°	333	366	456	527	564	331
75°	164	217	308	370	391	176
85°	42	58	72	74	79	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	987.8	987.8	987.8	987.8	987.8
2.5°	980.8	983.1	987.8	987.8	990.1
5°	978.5	980.8	985.5	985.5	985.5
7.5°	971.6	973.9	978.5	980.8	980.8
10°	964.6	967.0	971.6	973.9	976.2
12.5°	953.1	955.4	962.3	967.0	967.0
15°	941.5	943.8	950.8	955.4	957.7
17.5°	927.6	932.3	939.2	943.8	946.1
20°	909.1	913.7	923.0	929.9	932.3
22.5°	892.9	897.6	906.8	913.7	918.4
25°	874.4	879.0	892.9	897.6	902.2
27.5°	851.3	855.9	867.5	876.7	883.7
30°	828.2	832.8	846.7	858.2	862.9
32.5°	802.7	809.7	825.8	835.1	842.0
35°	775.0	781.9	798.1	814.3	821.2
37.5°	747.2	754.1	770.3	791.1	800.4
40°	714.8	724.1	744.9	772.6	777.3
42.5°	684.7	696.3	714.8	747.2	758.8
45°	650.0	661.6	687.0	721.7	740.3
47.5°	617.6	629.2	657.0	698.6	721.7
50°	578.3	594.5	629.2	677.8	700.9
52.5°	541.3	555.2	601.5	654.7	682.4
55°	502.0	518.2	573.7	631.5	661.6
57.5°	467.3	481.2	543.6	608.4	643.1
60°	423.3	441.8	513.5	582.9	617.6
62.5°	377.1	404.8	483.5	555.2	592.2
65°	333.1	365.5	455.7	527.4	564.4
67.5°	293.8	328.5	421.0	497.4	532.1
70°	247.5	291.5	386.3	460.3	499.7
72.5°	205.9	254.5	347.0	421.0	455.7
75°	164.2	217.4	307.7	370.1	390.9
77.5°	127.2	178.1	263.7	282.2	284.5
80°	94.8	141.1	196.6	198.9	205.9
82.5°	64.8	99.5	127.2	138.8	141.1
85°	41.6	57.8	71.7	74.0	78.7
87.5°	18.5	20.8	25.4	23.1	23.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)