

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: P390480

Luminaire Tested: **22CZ2-55VHE-RDP-UNV-L935-CD1-SDWPD1-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: P390480
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-SDWPD1-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: 3068.1 lumens
Efficiency: N/A
Efficacy: 77.9 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

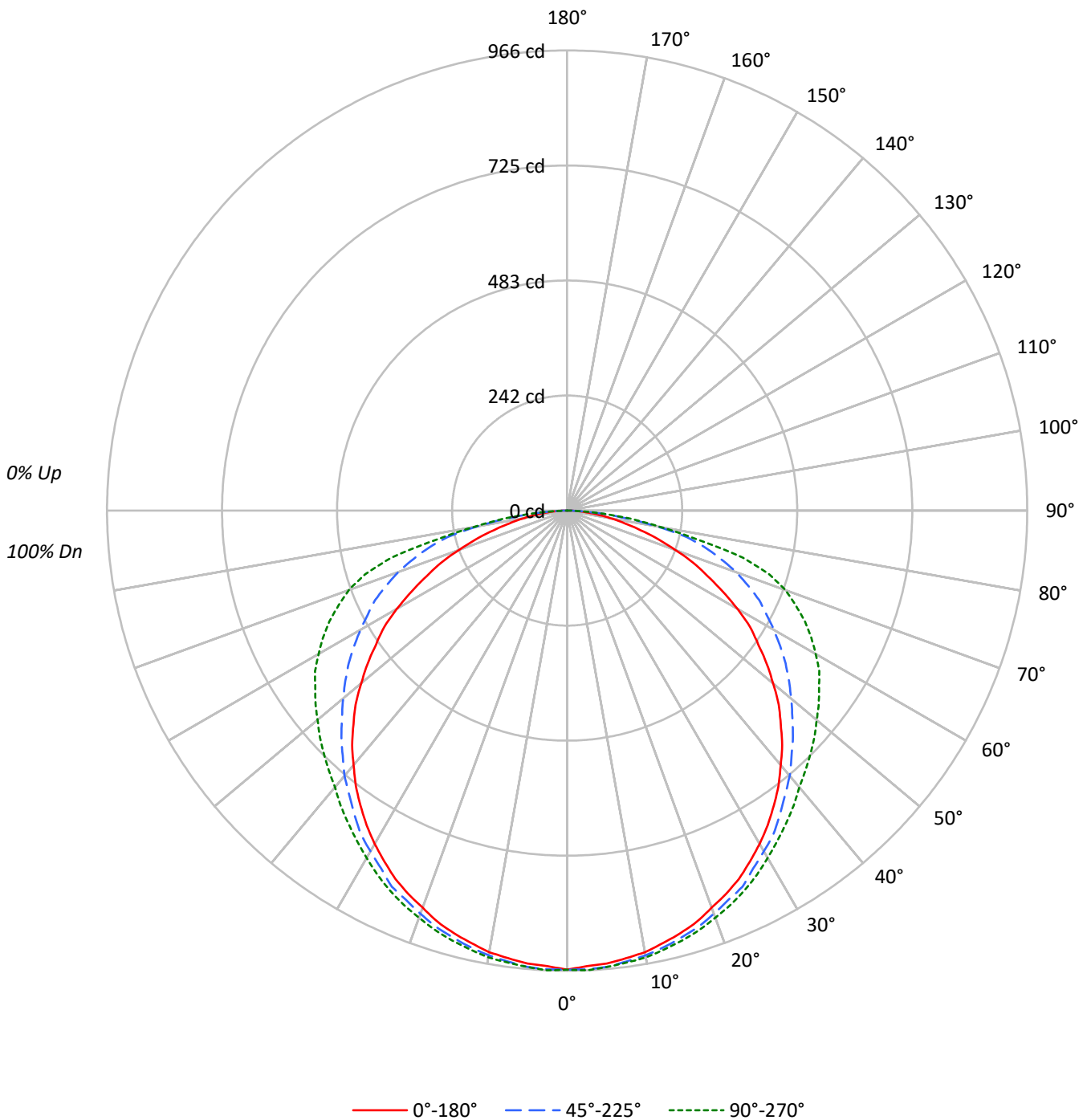
Input Watts (W): 39.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	103	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84	82					82			
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67					67			
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55					55			
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47					47			
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40					40			
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35					35			
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31					31			
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27					27			
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24					24			
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22					22			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2593	2593	2593
5°	2579	2597	2597
10°	2572	2590	2603
15°	2559	2584	2603
20°	2540	2579	2605
25°	2533	2587	2613
30°	2511	2567	2616
35°	2484	2558	2632
40°	2450	2553	2664
45°	2414	2551	2748
50°	2362	2570	2863
55°	2298	2626	3028
60°	2223	2697	3243
65°	2069	2831	3507
70°	1900	2965	3836
75°	1666	3121	3965
80°	1433	2972	3113
85°	1254	2161	2368



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.2	3.0
10°-20°	261.7	8.5
20°-30°	399.3	13.0
30°-40°	487.6	15.9
40°-50°	521.4	17.0
50°-60°	503.2	16.4
60°-70°	433.2	14.1
70°-80°	293.1	9.6
80°-90°	77.3	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°	752.3	24.5
0°-40°	1239.9	40.4
0°-60°	2264.5	73.8
0°-90°	3068.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3068.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	964	964	964	964	964	
5°	955	957	962	962	962	91
15°	919	921	928	932	934	259
25°	853	858	871	876	880	393
35°	756	763	779	794	801	473
45°	634	646	670	704	722	490
55°	490	506	560	616	646	439
65°	325	357	445	515	551	323
75°	160	212	300	361	381	172
85°	41	56	70	72	77	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	963.7	963.7	963.7	963.7	963.7
2.5°	957.0	959.2	963.7	963.7	966.0
5°	954.7	957.0	961.5	961.5	961.5
7.5°	947.9	950.2	954.7	957.0	957.0
10°	941.2	943.4	947.9	950.2	952.5
12.5°	929.9	932.1	938.9	943.4	943.4
15°	918.6	920.9	927.6	932.1	934.4
17.5°	905.1	909.6	916.3	920.9	923.1
20°	887.0	891.5	900.5	907.3	909.6
22.5°	871.2	875.7	884.7	891.5	896.0
25°	853.2	857.7	871.2	875.7	880.2
27.5°	830.6	835.1	846.4	855.4	862.2
30°	808.0	812.5	826.1	837.4	841.9
32.5°	783.2	790.0	805.8	814.8	821.6
35°	756.1	762.9	778.7	794.5	801.2
37.5°	729.0	735.8	751.6	771.9	780.9
40°	697.4	706.4	726.8	753.8	758.4
42.5°	668.1	679.4	697.4	729.0	740.3
45°	634.2	645.5	670.3	704.2	722.2
47.5°	602.6	613.9	641.0	681.6	704.2
50°	564.3	580.1	613.9	661.3	683.9
52.5°	528.1	541.7	586.8	638.7	665.8
55°	489.8	505.6	559.7	616.2	645.5
57.5°	455.9	469.5	530.4	593.6	627.4
60°	413.0	431.1	501.1	568.8	602.6
62.5°	367.9	395.0	471.7	541.7	577.8
65°	325.0	356.6	444.6	514.6	550.7
67.5°	286.6	320.5	410.8	485.3	519.1
70°	241.5	284.4	376.9	449.1	487.5
72.5°	200.9	248.3	338.6	410.8	444.6
75°	160.2	212.2	300.2	361.1	381.4
77.5°	124.1	173.8	257.3	275.4	277.6
80°	92.5	137.7	191.8	194.1	200.9
82.5°	63.2	97.1	124.1	135.4	137.7
85°	40.6	56.4	70.0	72.2	76.7
87.5°	18.1	20.3	24.8	22.6	22.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)