

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: P390477

Luminaire Tested: **22CZ2-55VHE-RDP-UNV-L930-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: P390477
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-L930-CD1-SDWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 3000K, 90 LEDS, AND RDP LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2994.1 lumens
Efficiency: N/A
Efficacy: 76.0 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

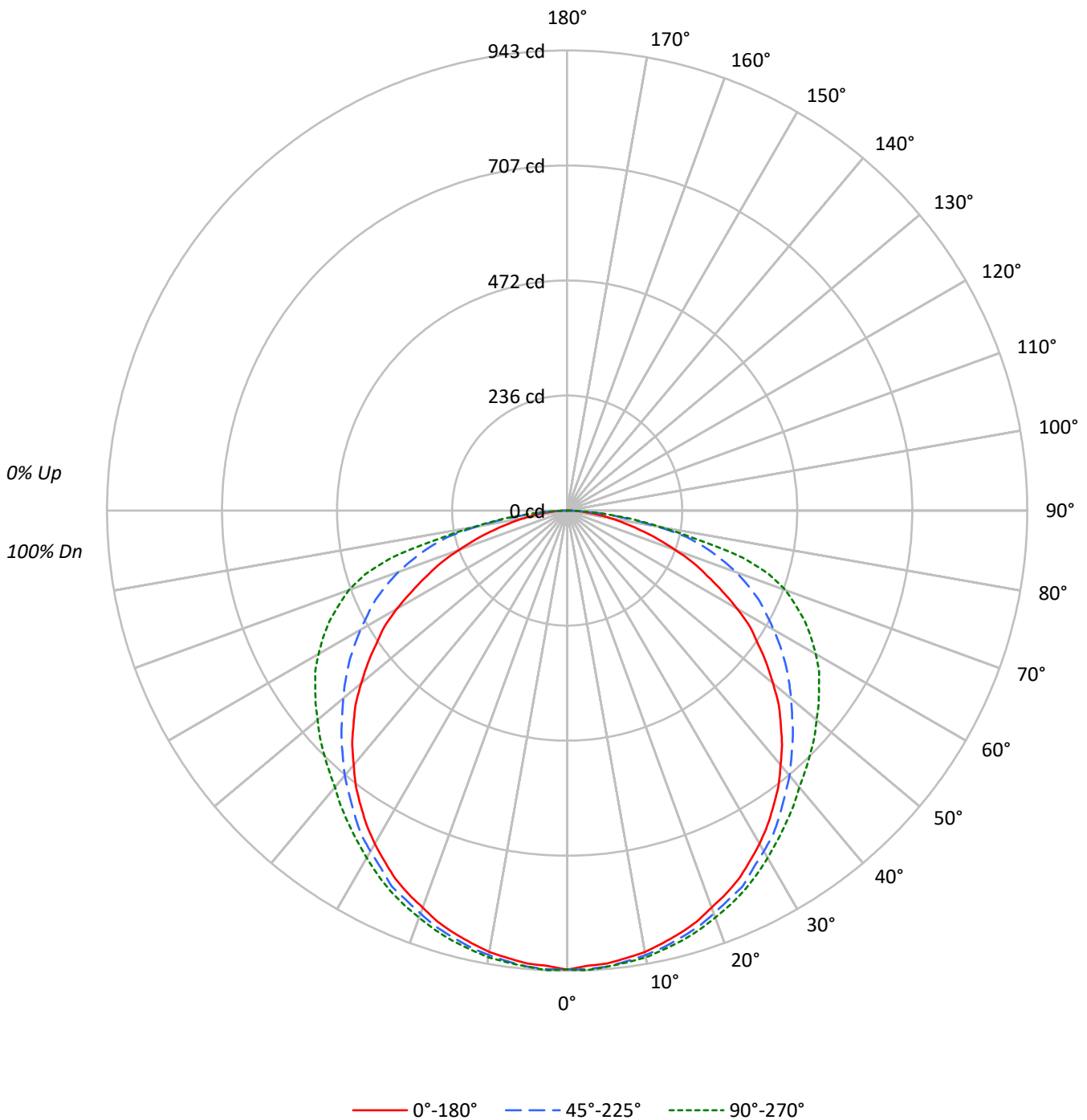
Input Watts (W): 39.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2531	2531	2531
5°	2517	2535	2535
10°	2510	2528	2540
15°	2497	2522	2540
20°	2479	2517	2542
25°	2472	2524	2551
30°	2450	2505	2553
35°	2424	2496	2569
40°	2391	2491	2600
45°	2355	2490	2682
50°	2305	2508	2794
55°	2243	2563	2955
60°	2169	2632	3165
65°	2020	2763	3422
70°	1854	2894	3744
75°	1626	3045	3870
80°	1399	2901	3037
85°	1223	2109	2313



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.0	3.0
10°-20°	255.4	8.5
20°-30°	389.7	13.0
30°-40°	475.8	15.9
40°-50°	508.8	17.0
50°-60°	491.1	16.4
60°-70°	422.8	14.1
70°-80°	286.0	9.6
80°-90°	75.5	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°	734.1	24.5
0°-40°	1210.0	40.4
0°-60°	2209.9	73.8
0°-90°	2994.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2994.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	940	940	940	940	940	
5°	932	934	938	938	938	88
15°	896	899	905	910	912	253
25°	833	837	850	855	859	383
35°	738	744	760	775	782	462
45°	619	630	654	687	705	478
55°	478	493	546	601	630	428
65°	317	348	434	502	537	315
75°	156	207	293	352	372	168
85°	40	55	68	70	75	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	940.5	940.5	940.5	940.5	940.5
2.5°	933.9	936.1	940.5	940.5	942.7
5°	931.7	933.9	938.3	938.3	938.3
7.5°	925.1	927.3	931.7	933.9	933.9
10°	918.5	920.7	925.1	927.3	929.5
12.5°	907.5	909.7	916.3	920.7	920.7
15°	896.4	898.7	905.3	909.7	911.9
17.5°	883.2	887.6	894.2	898.7	900.9
20°	865.6	870.0	878.8	885.4	887.6
22.5°	850.2	854.6	863.4	870.0	874.4
25°	832.6	837.0	850.2	854.6	859.0
27.5°	810.5	815.0	826.0	834.8	841.4
30°	788.5	792.9	806.1	817.2	821.6
32.5°	764.3	770.9	786.3	795.1	801.7
35°	737.9	744.5	759.9	775.3	781.9
37.5°	711.4	718.0	733.5	753.3	762.1
40°	680.6	689.4	709.2	735.7	740.1
42.5°	652.0	663.0	680.6	711.4	722.4
45°	618.9	629.9	654.2	687.2	704.8
47.5°	588.1	599.1	625.5	665.2	687.2
50°	550.6	566.1	599.1	645.4	667.4
52.5°	515.4	528.6	572.7	623.3	649.8
55°	478.0	493.4	546.2	601.3	629.9
57.5°	444.9	458.1	517.6	579.3	612.3
60°	403.1	420.7	489.0	555.0	588.1
62.5°	359.0	385.5	460.3	528.6	563.9
65°	317.2	348.0	433.9	502.2	537.4
67.5°	279.7	312.8	400.9	473.6	506.6
70°	235.7	277.5	367.8	438.3	475.8
72.5°	196.0	242.3	330.4	400.9	433.9
75°	156.4	207.0	292.9	352.4	372.2
77.5°	121.1	169.6	251.1	268.7	270.9
80°	90.3	134.4	187.2	189.4	196.0
82.5°	61.7	94.7	121.1	132.2	134.4
85°	39.6	55.1	68.3	70.5	74.9
87.5°	17.6	19.8	24.2	22.0	22.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)