

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: P390296

Luminaire Tested: **22CZ2-34VHE-RDP-UNV-L950-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: P390296
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: 22CZ2-34VHE-RDP-UNV-L950-CD1-U
Description: 2x2 CRUZE LED TROFFER WITH 5000K, 90 LEDS, AND RDP LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2194.1 lumens
Efficiency: N/A
Efficacy: 87.4 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

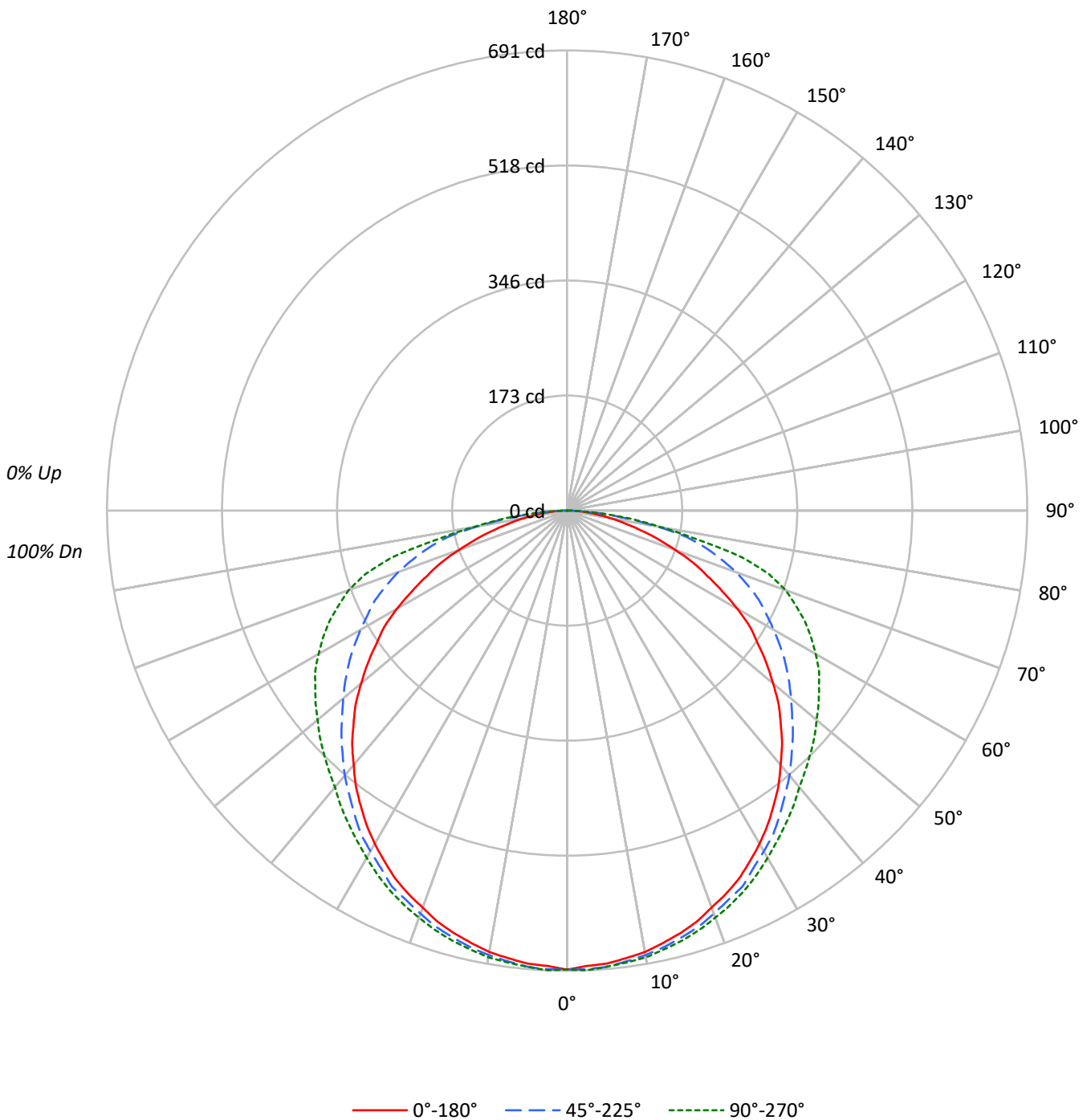
Input Watts (W): 25.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1855	1855	1855
5°	1844	1857	1857
10°	1839	1852	1861
15°	1830	1848	1862
20°	1816	1844	1863
25°	1811	1850	1869
30°	1795	1835	1871
35°	1776	1829	1882
40°	1752	1826	1905
45°	1726	1824	1966
50°	1689	1838	2048
55°	1643	1878	2166
60°	1590	1928	2320
65°	1480	2025	2507
70°	1359	2120	2743
75°	1192	2232	2836
80°	1026	2126	2227
85°	898	1544	1695



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.2	3.0
10°-20°	187.2	8.5
20°-30°	285.6	13.0
30°-40°	348.7	15.9
40°-50°	372.8	17.0
50°-60°	359.9	16.4
60°-70°	309.8	14.1
70°-80°	209.6	9.6
80°-90°	55.3	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°	538.0	24.5
0°-40°	886.7	40.4
0°-60°	1619.4	73.8
0°-90°	2194.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2194.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	689	689	689	689	689	
5°	683	684	688	688	688	65
15°	657	658	663	667	668	185
25°	610	613	623	626	630	281
35°	541	546	557	568	573	338
45°	454	462	479	504	516	350
55°	350	362	400	441	462	314
65°	232	255	318	368	394	231
75°	115	152	215	258	273	123
85°	29	40	50	52	55	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	689.2	689.2	689.2	689.2	689.2
2.5°	684.4	686.0	689.2	689.2	690.8
5°	682.7	684.4	687.6	687.6	687.6
7.5°	677.9	679.5	682.7	684.4	684.4
10°	673.1	674.7	677.9	679.5	681.1
12.5°	665.0	666.6	671.5	674.7	674.7
15°	656.9	658.5	663.4	666.6	668.2
17.5°	647.2	650.5	655.3	658.5	660.2
20°	634.3	637.6	644.0	648.9	650.5
22.5°	623.0	626.3	632.7	637.6	640.8
25°	610.1	613.3	623.0	626.3	629.5
27.5°	594.0	597.2	605.3	611.7	616.6
30°	577.8	581.1	590.7	598.8	602.0
32.5°	560.1	564.9	576.2	582.7	587.5
35°	540.7	545.6	556.9	568.2	573.0
37.5°	521.3	526.2	537.5	552.0	558.5
40°	498.7	505.2	519.7	539.1	542.3
42.5°	477.8	485.8	498.7	521.3	529.4
45°	453.6	461.6	479.4	503.6	516.5
47.5°	431.0	439.0	458.4	487.4	503.6
50°	403.5	414.8	439.0	472.9	489.1
52.5°	377.7	387.4	419.7	456.8	476.1
55°	350.3	361.6	400.3	440.6	461.6
57.5°	326.0	335.7	379.3	424.5	448.7
60°	295.4	308.3	358.3	406.7	431.0
62.5°	263.1	282.5	337.3	387.4	413.2
65°	232.4	255.0	318.0	368.0	393.8
67.5°	205.0	229.2	293.8	347.0	371.2
70°	172.7	203.4	269.5	321.2	348.6
72.5°	143.7	177.5	242.1	293.8	318.0
75°	114.6	151.7	214.7	258.3	272.8
77.5°	88.8	124.3	184.0	196.9	198.5
80°	66.2	98.5	137.2	138.8	143.7
82.5°	45.2	69.4	88.8	96.8	98.5
85°	29.1	40.4	50.0	51.7	54.9
87.5°	12.9	14.5	17.8	16.1	16.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)