

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: P390294

Luminaire Tested: **22CZ2-34VHE-RDP-UNV-L950-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: P390294
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-SDWPD1-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: 2140.8 lumens
Efficiency: N/A
Efficacy: 85.3 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

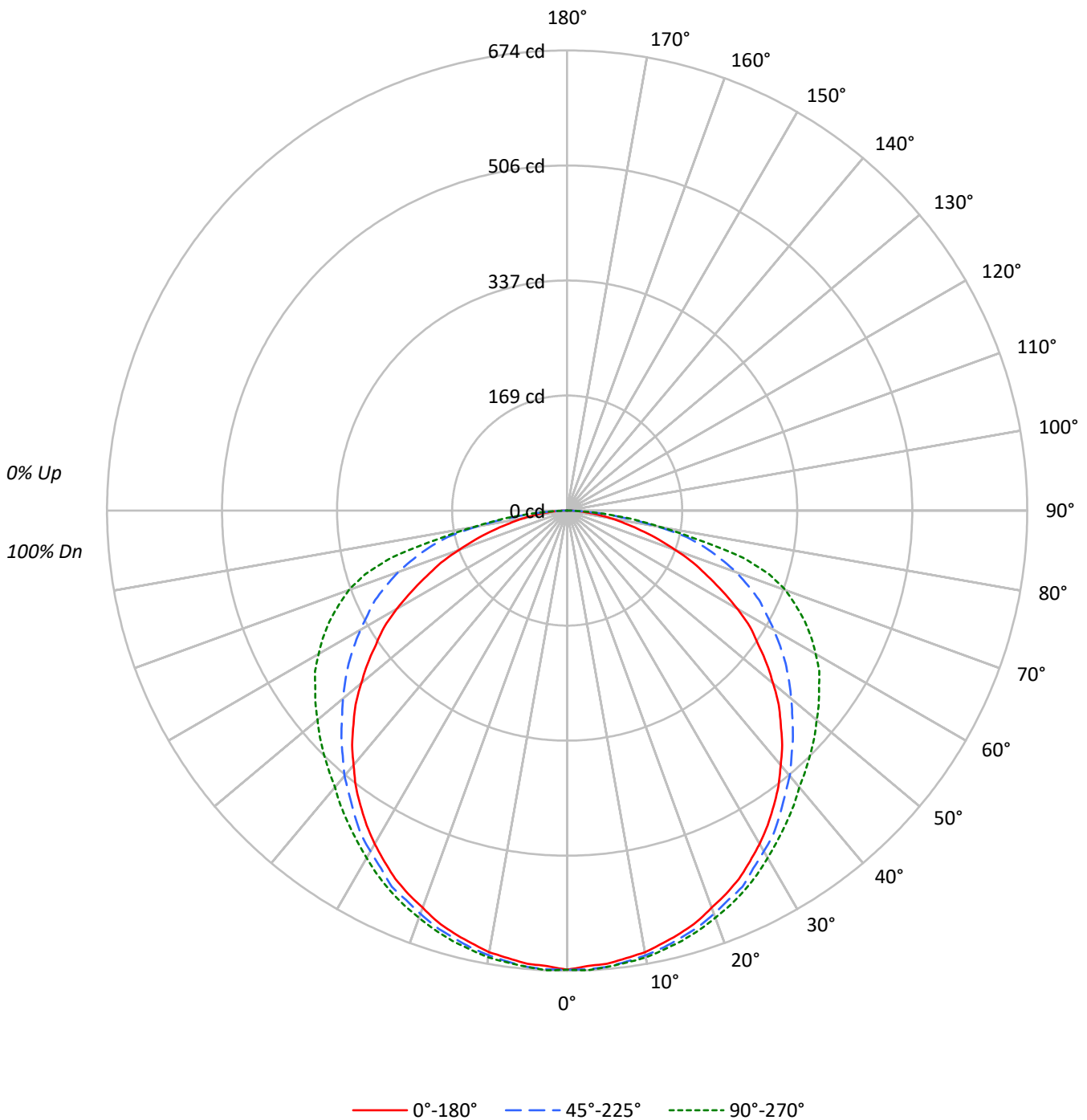
Input Watts (W): 25.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1810	1810	1810
5°	1800	1812	1812
10°	1794	1807	1816
15°	1786	1803	1816
20°	1772	1800	1818
25°	1768	1805	1824
30°	1752	1791	1825
35°	1733	1785	1837
40°	1709	1781	1859
45°	1684	1780	1918
50°	1648	1793	1998
55°	1603	1833	2113
60°	1551	1882	2263
65°	1444	1975	2447
70°	1326	2069	2677
75°	1162	2178	2768
80°	1001	2075	2173
85°	874	1507	1652



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.6	3.0
10°-20°	182.6	8.5
20°-30°	278.6	13.0
30°-40°	340.2	15.9
40°-50°	363.8	17.0
50°-60°	351.1	16.4
60°-70°	302.3	14.1
70°-80°	204.5	9.6
80°-90°	54.0	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°	524.9	24.5
0°-40°	865.1	40.4
0°-60°	1580.1	73.8
0°-90°	2140.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2140.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	672	672	672	672	672	
5°	666	668	671	671	671	63
15°	641	642	647	650	652	181
25°	595	598	608	611	614	274
35°	528	532	543	554	559	330
45°	442	450	468	491	504	342
55°	342	353	391	430	450	306
65°	227	249	310	359	384	226
75°	112	148	210	252	266	120
85°	28	39	49	50	54	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	672.5	672.5	672.5	672.5	672.5
2.5°	667.7	669.3	672.5	672.5	674.0
5°	666.2	667.7	670.9	670.9	670.9
7.5°	661.4	663.0	666.2	667.7	667.7
10°	656.7	658.3	661.4	663.0	664.6
12.5°	648.8	650.4	655.1	658.3	658.3
15°	641.0	642.5	647.3	650.4	652.0
17.5°	631.5	634.7	639.4	642.5	644.1
20°	618.9	622.1	628.4	633.1	634.7
22.5°	607.9	611.0	617.3	622.1	625.2
25°	595.3	598.4	607.9	611.0	614.2
27.5°	579.5	582.7	590.6	596.9	601.6
30°	563.8	566.9	576.4	584.3	587.4
32.5°	546.5	551.2	562.2	568.5	573.2
35°	527.6	532.3	543.3	554.3	559.1
37.5°	508.7	513.4	524.4	538.6	544.9
40°	486.6	492.9	507.1	526.0	529.2
42.5°	466.2	474.0	486.6	508.7	516.6
45°	442.5	450.4	467.7	491.4	504.0
47.5°	420.5	428.4	447.3	475.6	491.4
50°	393.7	404.7	428.4	461.4	477.2
52.5°	368.5	378.0	409.5	445.7	464.6
55°	341.7	352.8	390.6	429.9	450.4
57.5°	318.1	327.6	370.1	414.2	437.8
60°	288.2	300.8	349.6	396.9	420.5
62.5°	256.7	275.6	329.1	378.0	403.2
65°	226.8	248.8	310.2	359.1	384.3
67.5°	200.0	223.6	286.6	338.6	362.2
70°	168.5	198.4	263.0	313.4	340.2
72.5°	140.2	173.2	236.2	286.6	310.2
75°	111.8	148.0	209.5	252.0	266.2
77.5°	86.6	121.3	179.5	192.1	193.7
80°	64.6	96.1	133.9	135.4	140.2
82.5°	44.1	67.7	86.6	94.5	96.1
85°	28.3	39.4	48.8	50.4	53.5
87.5°	12.6	14.2	17.3	15.7	15.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)