

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: P390293

Luminaire Tested: **22CZ2-34VHE-RDP-UNV-L940-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: P390293
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-L940-CD1-U
Description: 2x2 CRUZE LED TROFFER WITH 4000K, 90 LEDS, AND RDP LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2067.1 lumens
Efficiency: N/A
Efficacy: 82.4 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

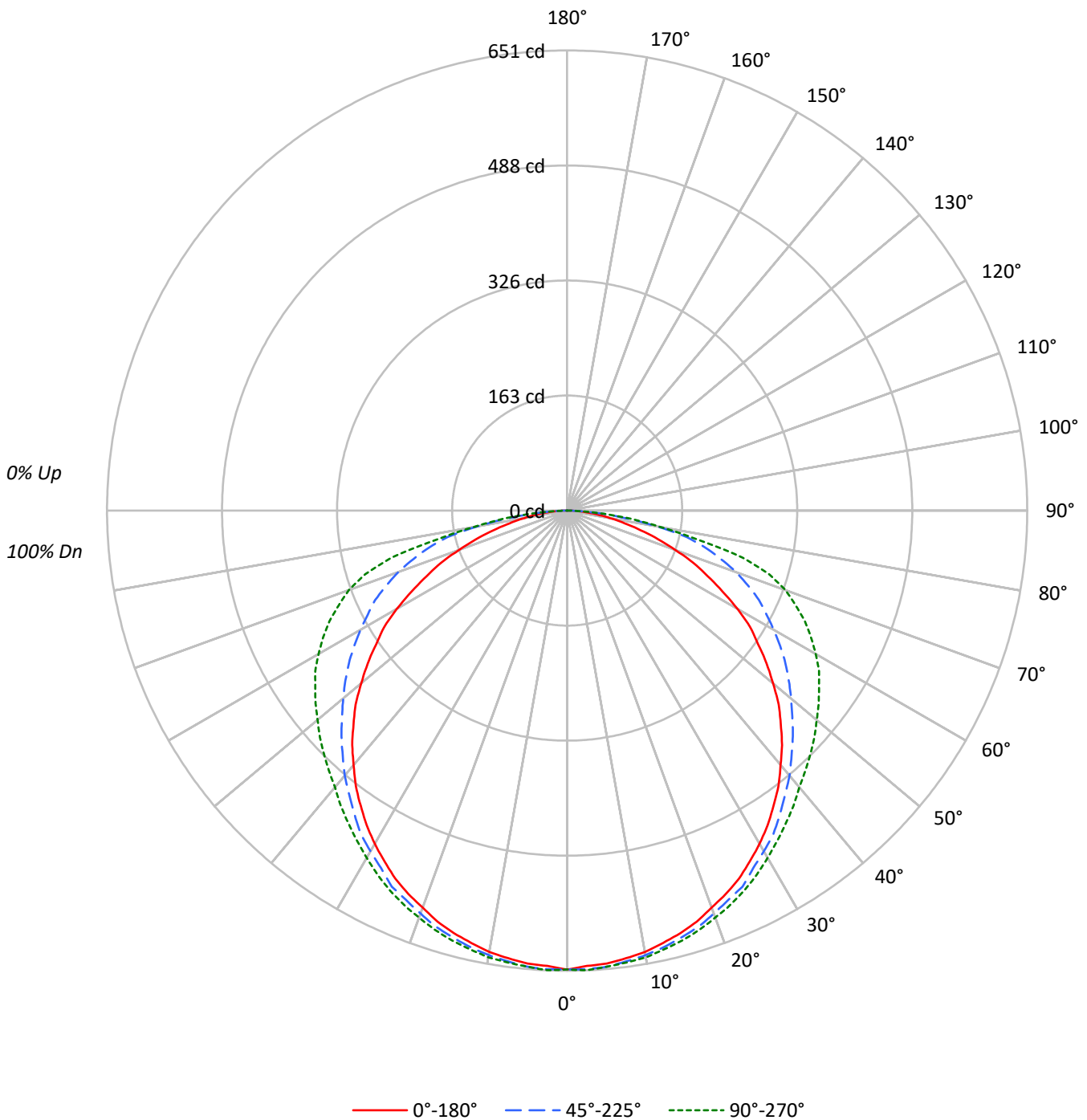
Input Watts (W): 25.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1747	1747	1747
5°	1737	1750	1750
10°	1733	1745	1753
15°	1724	1741	1754
20°	1711	1737	1755
25°	1707	1743	1761
30°	1692	1730	1762
35°	1673	1723	1773
40°	1651	1720	1795
45°	1626	1719	1852
50°	1592	1732	1929
55°	1548	1769	2040
60°	1498	1817	2185
65°	1394	1908	2362
70°	1280	1998	2585
75°	1123	2102	2672
80°	965	2004	2097
85°	846	1454	1596



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.4	3.0
10°-20°	176.3	8.5
20°-30°	269.1	13.0
30°-40°	328.5	15.9
40°-50°	351.3	17.0
50°-60°	339.0	16.4
60°-70°	291.9	14.1
70°-80°	197.5	9.6
80°-90°	52.1	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°	506.8	24.5
0°-40°	835.4	40.4
0°-60°	1525.7	73.8
0°-90°	2067.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2067.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	649	649	649	649	649	
5°	643	645	648	648	648	61
15°	619	620	625	628	630	175
25°	575	578	587	590	593	265
35°	509	514	525	535	540	319
45°	427	435	452	474	487	330
55°	330	341	377	415	435	296
65°	219	240	300	347	371	218
75°	108	143	202	243	257	116
85°	27	38	47	49	52	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	649.3	649.3	649.3	649.3	649.3
2.5°	644.8	646.3	649.3	649.3	650.8
5°	643.2	644.8	647.8	647.8	647.8
7.5°	638.7	640.2	643.2	644.8	644.8
10°	634.1	635.6	638.7	640.2	641.7
12.5°	626.5	628.0	632.6	635.6	635.6
15°	618.9	620.4	625.0	628.0	629.5
17.5°	609.8	612.8	617.4	620.4	621.9
20°	597.6	600.7	606.7	611.3	612.8
22.5°	587.0	590.0	596.1	600.7	603.7
25°	574.8	577.8	587.0	590.0	593.0
27.5°	559.6	562.6	570.2	576.3	580.9
30°	544.4	547.4	556.6	564.2	567.2
32.5°	527.7	532.2	542.9	549.0	553.5
35°	509.4	514.0	524.6	535.3	539.8
37.5°	491.2	495.7	506.4	520.1	526.1
40°	469.9	476.0	489.6	507.9	510.9
42.5°	450.1	457.7	469.9	491.2	498.8
45°	427.3	434.9	451.6	474.4	486.6
47.5°	406.0	413.6	431.9	459.2	474.4
50°	380.2	390.8	413.6	445.5	460.8
52.5°	355.8	365.0	395.4	430.3	448.6
55°	330.0	340.6	377.1	415.1	434.9
57.5°	307.2	316.3	357.3	399.9	422.7
60°	278.3	290.4	337.6	383.2	406.0
62.5°	247.9	266.1	317.8	365.0	389.3
65°	219.0	240.3	299.6	346.7	371.0
67.5°	193.1	215.9	276.8	326.9	349.7
70°	162.7	191.6	253.9	302.6	328.5
72.5°	135.3	167.3	228.1	276.8	299.6
75°	108.0	142.9	202.2	243.3	257.0
77.5°	83.6	117.1	173.4	185.5	187.0
80°	62.3	92.8	129.3	130.8	135.3
82.5°	42.6	65.4	83.6	91.2	92.8
85°	27.4	38.0	47.1	48.7	51.7
87.5°	12.2	13.7	16.7	15.2	15.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)