

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: P390291

Luminaire Tested: **22CZ2-34VHE-RDP-UNV-L940-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: P390291
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-SDWPD1-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: 2016.9 lumens
Efficiency: N/A
Efficacy: 80.4 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

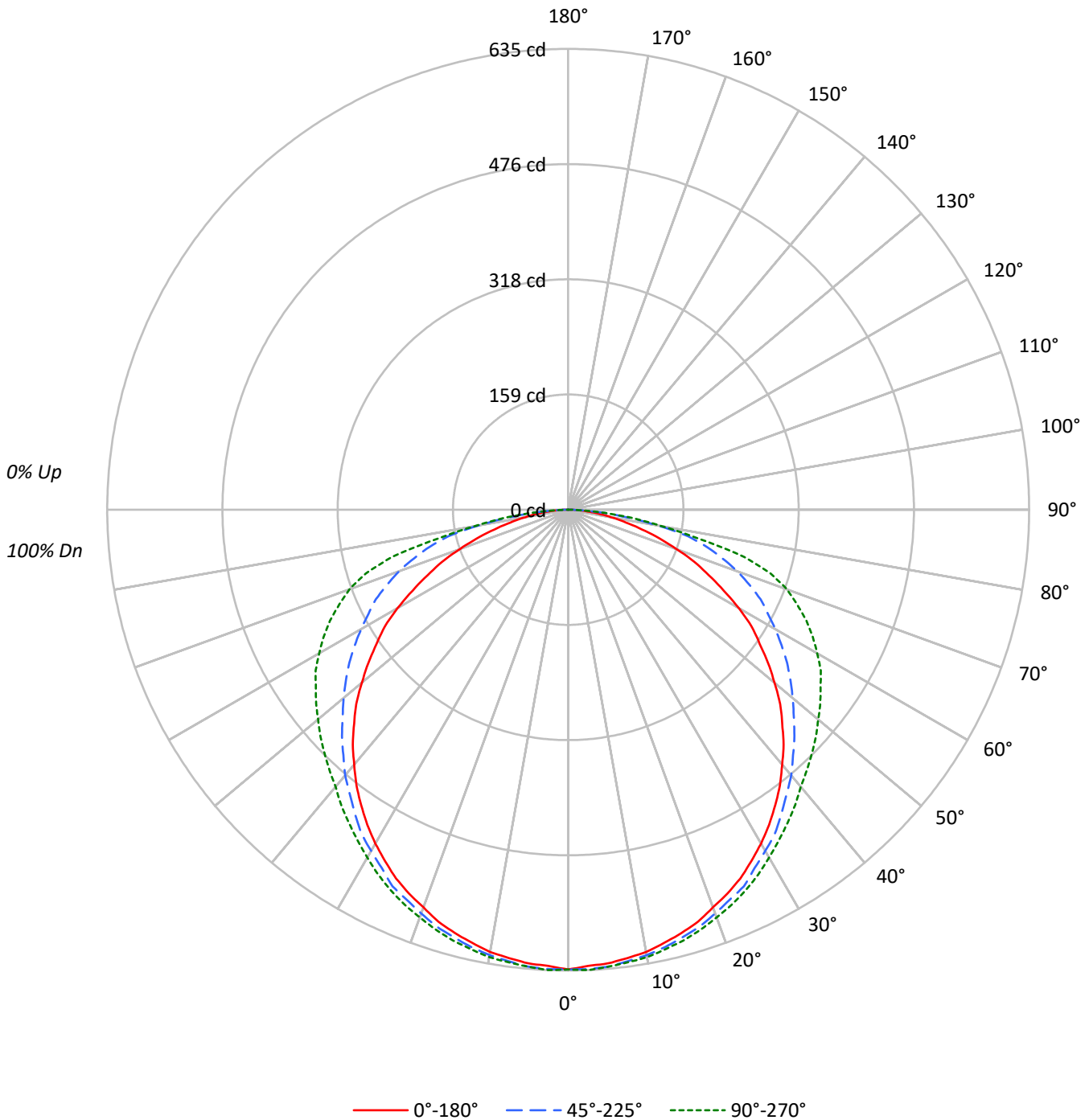
Input Watts (W): 25.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1705	1705	1705
5°	1695	1707	1707
10°	1691	1703	1711
15°	1682	1699	1711
20°	1670	1695	1712
25°	1665	1700	1718
30°	1651	1687	1720
35°	1633	1682	1730
40°	1611	1678	1751
45°	1587	1677	1807
50°	1553	1690	1882
55°	1511	1727	1991
60°	1461	1773	2132
65°	1361	1861	2305
70°	1249	1950	2522
75°	1095	2051	2607
80°	942	1954	2047
85°	824	1420	1556



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.9	3.0
10°-20°	172.1	8.5
20°-30°	262.5	13.0
30°-40°	320.5	15.9
40°-50°	342.7	17.0
50°-60°	330.8	16.4
60°-70°	284.8	14.1
70°-80°	192.7	9.6
80°-90°	50.8	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°	494.5	24.5
0°-40°	815.1	40.4
0°-60°	1488.6	73.8
0°-90°	2016.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2016.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	634	634	634	634	634	
5°	628	629	632	632	632	60
15°	604	605	610	613	614	170
25°	561	564	573	576	579	258
35°	497	502	512	522	527	311
45°	417	424	441	463	475	322
55°	322	332	368	405	424	289
65°	214	234	292	338	362	212
75°	105	140	197	237	251	113
85°	27	37	46	48	50	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	633.5	633.5	633.5	633.5	633.5
2.5°	629.1	630.6	633.5	633.5	635.0
5°	627.6	629.1	632.1	632.1	632.1
7.5°	623.2	624.6	627.6	629.1	629.1
10°	618.7	620.2	623.2	624.6	626.1
12.5°	611.3	612.8	617.2	620.2	620.2
15°	603.9	605.4	609.8	612.8	614.3
17.5°	595.0	597.9	602.4	605.4	606.8
20°	583.1	586.1	592.0	596.5	597.9
22.5°	572.7	575.7	581.6	586.1	589.0
25°	560.8	563.8	572.7	575.7	578.6
27.5°	546.0	549.0	556.4	562.3	566.8
30°	531.2	534.1	543.0	550.5	553.4
32.5°	514.8	519.3	529.7	535.6	540.1
35°	497.0	501.5	511.9	522.3	526.7
37.5°	479.2	483.7	494.1	507.4	513.4
40°	458.5	464.4	477.8	495.6	498.5
42.5°	439.2	446.6	458.5	479.2	486.7
45°	416.9	424.3	440.7	462.9	474.8
47.5°	396.2	403.6	421.4	448.1	462.9
50°	370.9	381.3	403.6	434.7	449.6
52.5°	347.2	356.1	385.8	419.9	437.7
55°	322.0	332.4	368.0	405.1	424.3
57.5°	299.7	308.6	348.7	390.2	412.5
60°	271.5	283.4	329.4	373.9	396.2
62.5°	241.8	259.6	310.1	356.1	379.8
65°	213.7	234.4	292.3	338.3	362.0
67.5°	188.4	210.7	270.0	319.0	341.3
70°	158.8	186.9	247.8	295.3	320.5
72.5°	132.1	163.2	222.6	270.0	292.3
75°	105.3	139.5	197.3	237.4	250.7
77.5°	81.6	114.2	169.1	181.0	182.5
80°	60.8	90.5	126.1	127.6	132.1
82.5°	41.5	63.8	81.6	89.0	90.5
85°	26.7	37.1	46.0	47.5	50.4
87.5°	11.9	13.4	16.3	14.8	14.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)