

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: P#

Luminaire Tested: **14CZ-LD5-44-S-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35608)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-44-S-UNV-L850-CD1-U
Description: CRUZE 1x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4948.4 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.1')
CIE Type: Direct

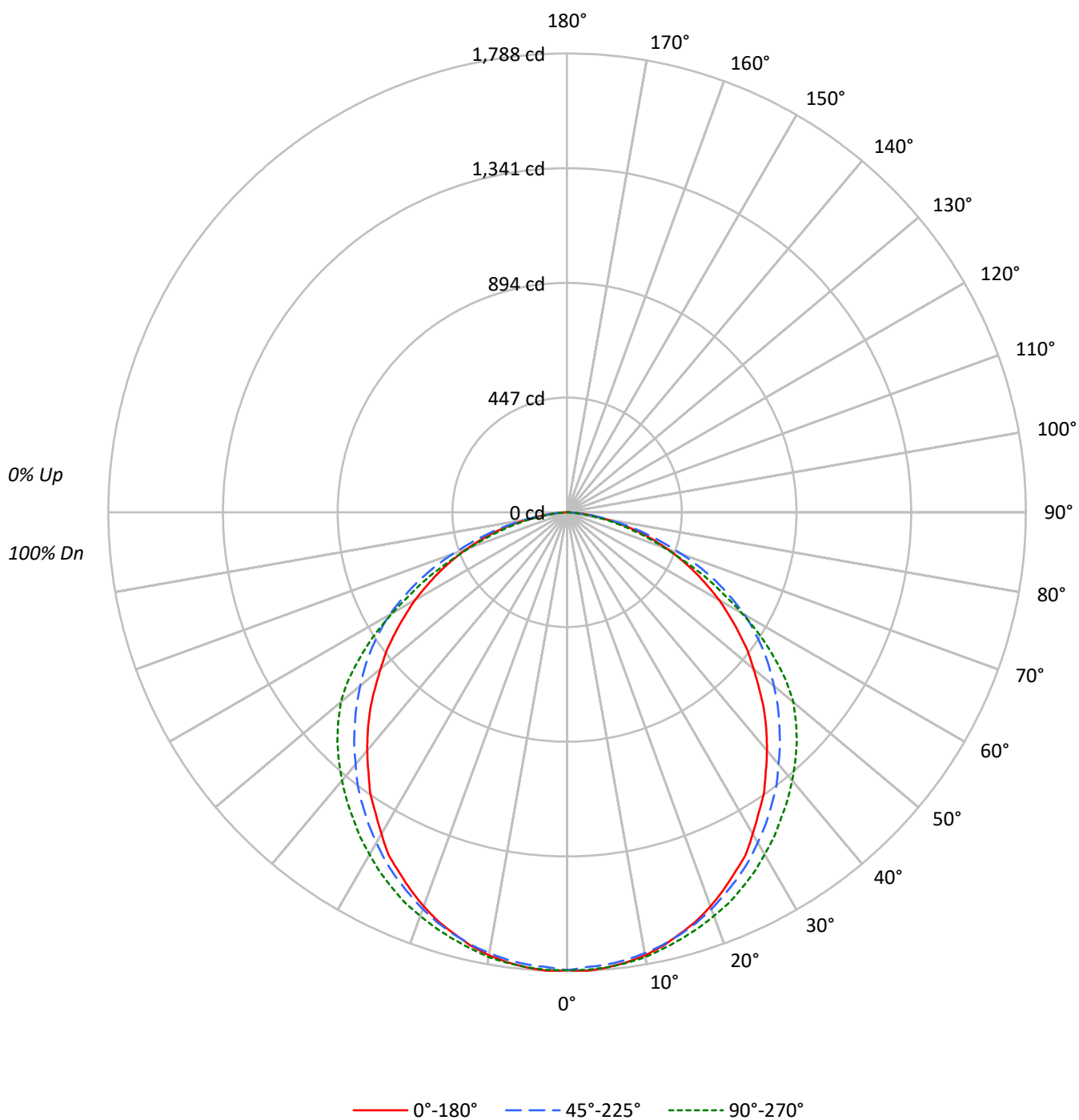
Input Watts (W): 41.12
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			50
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	109	104	100	96	106	102	98	95		98	95	92			94	91	89			90
2	99	91	84	79	97	89	83	78		86	80	76			82	78	74			79
3	90	80	72	66	88	78	71	65		75	69	64			73	67	63			70
4	83	71	62	56	81	70	61	55		67	60	54			65	59	54			63
5	76	63	54	48	74	62	54	48		60	53	47			58	52	46			56
6	70	57	48	42	68	56	48	42		54	47	41			53	46	41			51
7	65	52	43	37	63	51	43	37		49	42	36			48	41	36			47
8	61	47	39	33	59	46	38	33		45	38	33			44	37	32			43
9	57	43	35	30	55	43	35	29		42	34	29			40	34	29			39
10	53	40	32	27	52	39	32	27		38	31	27			37	31	26			37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4802	4802	4802
5°	4800	4742	4766
10°	4768	4693	4725
15°	4706	4634	4668
20°	4637	4563	4623
25°	4543	4484	4579
30°	4433	4394	4523
35°	4317	4301	4465
40°	4169	4191	4422
45°	4029	4088	4380
50°	3853	3984	4307
55°	3704	3880	4042
60°	3534	3733	3610
65°	3311	3446	3102
70°	3049	2996	2498
75°	2689	2442	1944
80°	2071	1698	1298
85°	1306	726	494



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.8	3.4
10°-20°	482.3	9.7
20°-30°	727.6	14.7
30°-40°	872.5	17.6
40°-50°	905.4	18.3
50°-60°	817.4	16.5
60°-70°	595.3	12.0
70°-80°	312.3	6.3
80°-90°	66.8	1.3
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°	1378.8	27.9
0°-40°	2251.3	45.5
0°-60°	3974.1	80.3
0°-90°	4948.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4948.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1784	1784	1784	1784	1784	
5°	1781	1777	1769	1781	1780	169
15°	1700	1700	1703	1722	1720	480
25°	1548	1556	1573	1607	1614	714
35°	1337	1350	1390	1442	1454	834
45°	1085	1109	1169	1242	1266	835
55°	818	846	931	987	984	731
65°	548	581	644	614	592	542
75°	283	323	312	270	257	297
85°	54	65	47	37	34	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1784.4	1784.4	1784.4	1784.4	1784.4
2.5°	1788.0	1783.2	1773.8	1785.6	1784.4
5°	1780.9	1777.3	1769.0	1780.9	1779.7
7.5°	1769.0	1766.7	1759.6	1772.6	1771.4
10°	1752.5	1748.9	1744.2	1758.4	1759.6
12.5°	1730.0	1728.8	1726.4	1741.8	1740.6
15°	1700.4	1700.4	1702.8	1721.7	1720.5
17.5°	1670.8	1670.8	1676.7	1698.0	1699.2
20°	1634.1	1636.5	1644.8	1670.8	1673.2
22.5°	1592.7	1595.1	1609.3	1642.4	1648.3
25°	1547.8	1556.0	1572.6	1606.9	1614.0
27.5°	1506.4	1507.5	1532.4	1570.2	1579.7
30°	1447.2	1463.8	1486.2	1530.0	1539.5
32.5°	1389.2	1405.8	1440.1	1487.4	1500.4
35°	1337.1	1350.2	1390.4	1442.5	1454.3
37.5°	1272.1	1293.4	1340.7	1395.1	1411.7
40°	1211.7	1230.6	1281.5	1343.1	1364.4
42.5°	1149.0	1170.3	1228.3	1294.5	1315.8
45°	1085.1	1108.8	1169.1	1242.5	1266.1
47.5°	1015.3	1044.9	1113.5	1188.0	1209.3
50°	947.8	978.6	1052.0	1130.1	1151.4
52.5°	886.3	913.5	994.0	1066.2	1075.6
55°	817.7	846.1	931.3	986.9	984.5
57.5°	749.0	781.0	866.2	900.5	891.0
60°	685.1	714.7	799.9	807.0	786.9
62.5°	614.1	648.5	720.6	710.0	685.1
65°	547.9	581.0	643.7	614.1	591.7
67.5°	480.4	515.9	560.9	517.1	491.1
70°	414.2	456.8	473.3	426.0	404.7
72.5°	346.7	391.7	390.5	345.5	327.8
75°	282.8	323.0	312.4	269.8	256.8
77.5°	215.4	255.6	235.5	203.5	191.7
80°	152.6	190.5	164.5	139.6	131.3
82.5°	104.1	126.6	102.9	81.6	78.1
85°	54.4	65.1	47.3	36.7	34.3
87.5°	20.1	18.9	16.6	15.4	15.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)