

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-L840-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-L840-CD1-U
Description: CRUZE 1x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4574.7 lumens
Efficiency: N/A
Efficacy: 111.3 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

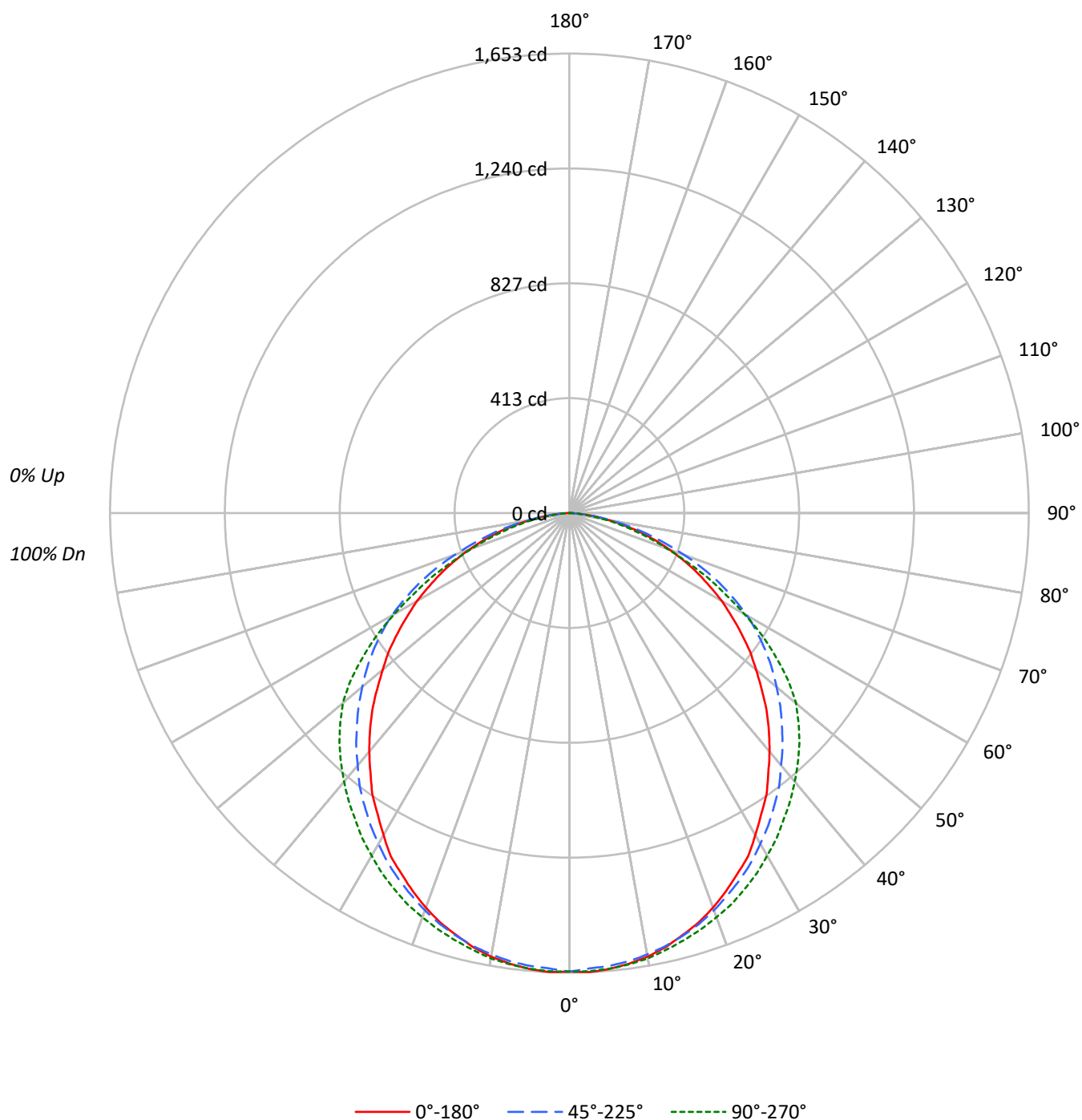
Input Watts (W): 41.12
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4439	4439	4439
5°	4438	4384	4406
10°	4407	4338	4368
15°	4350	4284	4316
20°	4287	4219	4274
25°	4200	4146	4233
30°	4098	4062	4181
35°	3991	3977	4127
40°	3854	3874	4088
45°	3724	3779	4050
50°	3562	3683	3982
55°	3424	3586	3736
60°	3267	3452	3337
65°	3061	3185	2868
70°	2819	2770	2309
75°	2486	2258	1797
80°	1915	1570	1200
85°	1208	673	457



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.1	3.4
10°-20°	445.9	9.7
20°-30°	672.7	14.7
30°-40°	806.6	17.6
40°-50°	837.0	18.3
50°-60°	755.6	16.5
60°-70°	550.3	12.0
70°-80°	288.7	6.3
80°-90°	61.8	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°	1274.6	27.9
0°-40°	2081.2	45.5
0°-60°	3673.9	80.3
0°-90°	4574.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4574.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1650	1650	1650	1650	1650	
5°	1646	1643	1635	1646	1645	156
15°	1572	1572	1574	1592	1591	444
25°	1431	1438	1454	1486	1492	660
35°	1236	1248	1285	1334	1344	771
45°	1003	1025	1081	1149	1170	772
55°	756	782	861	912	910	676
65°	506	537	595	568	547	501
75°	261	299	289	249	237	275
85°	50	60	44	34	32	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1649.6	1649.6	1649.6	1649.6	1649.6
2.5°	1652.9	1648.5	1639.8	1650.7	1649.6
5°	1646.4	1643.1	1635.4	1646.4	1645.3
7.5°	1635.4	1633.2	1626.7	1638.7	1637.6
10°	1620.1	1616.8	1612.4	1625.6	1626.7
12.5°	1599.3	1598.2	1596.0	1610.3	1609.2
15°	1572.0	1572.0	1574.2	1591.7	1590.6
17.5°	1544.6	1544.6	1550.1	1569.8	1570.9
20°	1510.7	1512.9	1520.6	1544.6	1546.8
22.5°	1472.4	1474.6	1487.7	1518.4	1523.8
25°	1430.9	1438.5	1453.8	1485.5	1492.1
27.5°	1392.6	1393.7	1416.6	1451.6	1460.4
30°	1337.9	1353.2	1374.0	1414.4	1423.2
32.5°	1284.3	1299.6	1331.3	1375.1	1387.1
35°	1236.1	1248.2	1285.4	1333.5	1344.4
37.5°	1176.0	1195.7	1239.4	1289.7	1305.1
40°	1120.2	1137.7	1184.7	1241.6	1261.3
42.5°	1062.2	1081.9	1135.5	1196.8	1216.4
45°	1003.1	1025.0	1080.8	1148.6	1170.5
47.5°	938.6	965.9	1029.4	1098.3	1118.0
50°	876.2	904.7	972.5	1044.7	1064.4
52.5°	819.3	844.5	918.9	985.6	994.4
55°	755.9	782.2	860.9	912.3	910.1
57.5°	692.5	722.0	800.8	832.5	823.7
60°	633.4	660.7	739.5	746.1	727.5
62.5°	567.7	599.5	666.2	656.4	633.4
65°	506.5	537.1	595.1	567.7	547.0
67.5°	444.1	477.0	518.5	478.0	454.0
70°	382.9	422.3	437.6	393.8	374.1
72.5°	320.5	362.1	361.0	319.4	303.0
75°	261.4	298.6	288.8	249.4	237.4
77.5°	199.1	236.3	217.7	188.2	177.2
80°	141.1	176.1	152.1	129.1	121.4
82.5°	96.3	117.0	95.2	75.5	72.2
85°	50.3	60.2	43.8	33.9	31.7
87.5°	18.6	17.5	15.3	14.2	14.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)