

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: P258733

Luminaire Tested: **14CZ-LD5-44-S-UNV-L83050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258733
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35112)
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-L83050-W2A1-U-5000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4715.1 lumens
Efficiency: N/A
Efficacy: 126.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

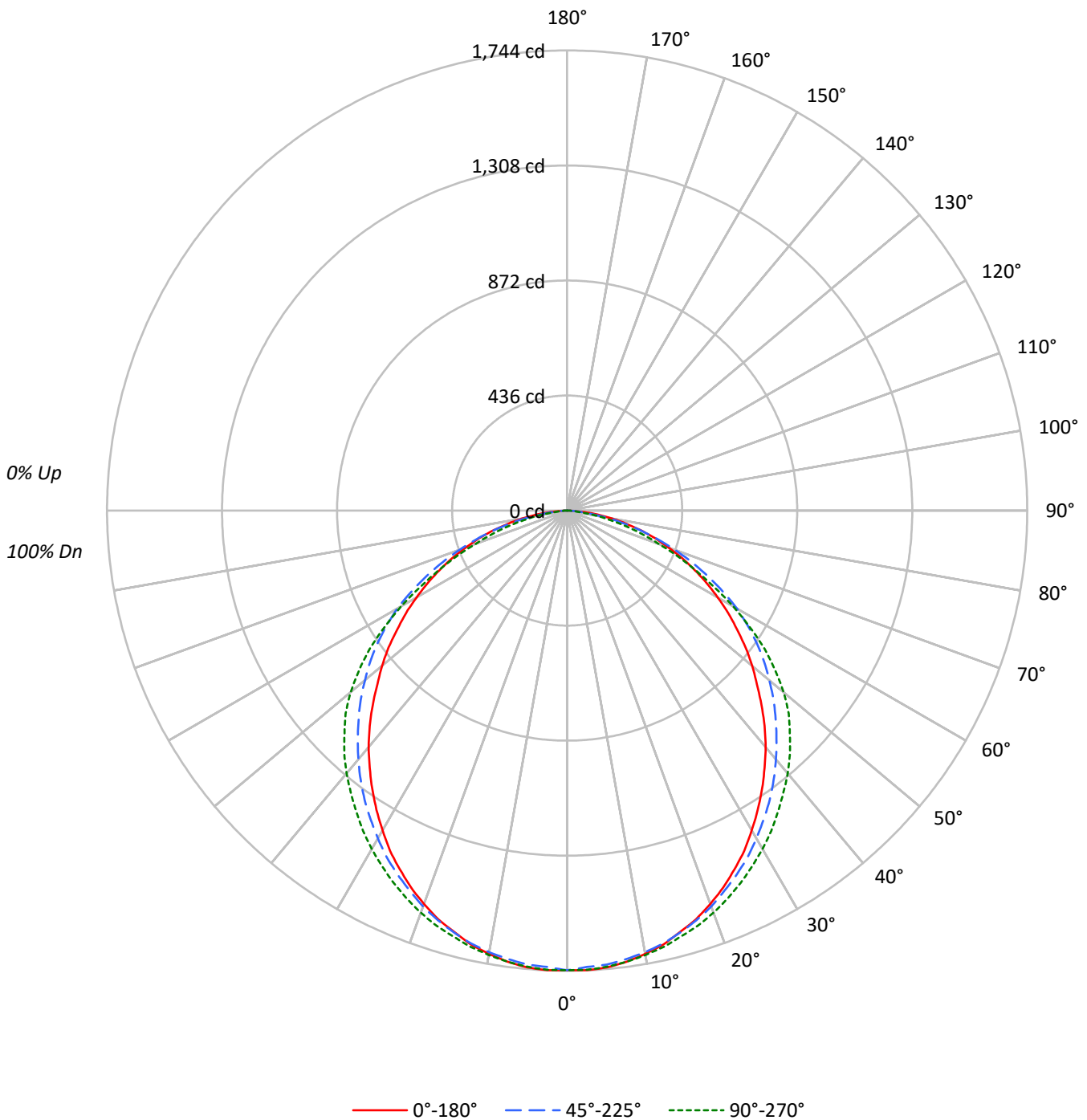
Input Watts (W): 37.386
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4687	4687	4687
5°	4694	4665	4688
10°	4662	4644	4673
15°	4606	4612	4653
20°	4543	4573	4645
25°	4454	4517	4623
30°	4348	4459	4602
35°	4231	4397	4576
40°	4111	4325	4568
45°	3966	4254	4542
50°	3835	4187	4486
55°	3687	4120	4288
60°	3550	4003	3913
65°	3398	3746	3438
70°	3207	3405	2910
75°	2992	2949	2403
80°	2638	2280	1759
85°	2075	1102	973



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.6	3.5
10°-20°	468.9	9.9
20°-30°	703.6	14.9
30°-40°	838.9	17.8
40°-50°	864.1	18.3
50°-60°	770.1	16.3
60°-70°	554.8	11.8
70°-80°	290.2	6.2
80°-90°	60.0	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°	1337.1	28.4
0°-40°	2175.9	46.1
0°-60°	3810.1	80.8
0°-90°	4715.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4715.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1742	1742	1742	1742	1742	
5°	1738	1733	1727	1738	1736	165
15°	1654	1656	1656	1672	1670	467
25°	1500	1508	1521	1551	1557	691
35°	1288	1305	1338	1382	1393	805
45°	1042	1065	1118	1181	1193	804
55°	786	811	878	918	914	705
65°	534	553	588	561	540	529
75°	288	303	284	246	231	305
85°	67	59	36	32	32	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1741.8	1741.8	1741.8	1741.8	1741.8
2.5°	1743.9	1739.7	1731.3	1741.8	1741.8
5°	1737.6	1733.4	1727.1	1737.6	1735.5
7.5°	1725.0	1720.8	1714.5	1727.1	1725.0
10°	1706.0	1703.9	1699.7	1712.3	1710.2
12.5°	1685.0	1682.9	1680.8	1693.4	1693.4
15°	1653.5	1655.6	1655.6	1672.4	1670.3
17.5°	1624.1	1626.2	1628.3	1649.3	1649.3
20°	1586.3	1588.4	1596.8	1619.9	1622.0
22.5°	1546.4	1548.5	1559.0	1586.3	1590.5
25°	1500.1	1508.5	1521.2	1550.6	1556.9
27.5°	1453.9	1460.2	1481.2	1514.9	1519.1
30°	1399.3	1411.9	1435.0	1472.8	1481.2
32.5°	1344.7	1359.4	1386.7	1428.7	1439.2
35°	1287.9	1304.7	1338.4	1382.5	1393.0
37.5°	1229.1	1243.8	1285.8	1332.1	1346.8
40°	1170.3	1185.0	1231.2	1283.7	1300.5
42.5°	1107.2	1128.3	1174.5	1233.3	1250.1
45°	1042.1	1065.2	1117.8	1180.8	1193.4
47.5°	974.9	1000.1	1061.0	1124.1	1138.8
50°	916.1	939.2	1000.1	1061.0	1071.5
52.5°	853.0	874.0	941.3	991.7	993.8
55°	785.8	811.0	878.2	918.2	914.0
57.5°	724.9	745.9	811.0	832.0	819.4
60°	659.7	678.6	743.8	745.9	727.0
62.5°	596.7	615.6	666.0	651.3	628.2
65°	533.7	552.6	588.3	561.0	540.0
67.5°	472.7	489.5	510.6	474.8	453.8
70°	407.6	430.7	432.8	390.8	369.8
72.5°	350.9	363.5	359.3	319.4	300.4
75°	287.8	302.6	283.6	245.8	231.1
77.5°	229.0	239.5	214.3	178.6	168.1
80°	170.2	176.5	147.1	119.8	113.5
82.5°	115.6	115.6	84.0	65.1	58.8
85°	67.2	58.8	35.7	31.5	31.5
87.5°	23.1	14.7	14.7	14.7	14.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)