

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: P258871

Luminaire Tested: **14CZ-LD5-44-S-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258871
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-L92765-W2A1-U-6500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4222.0 lumens
Efficiency: N/A
Efficacy: 113.2 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

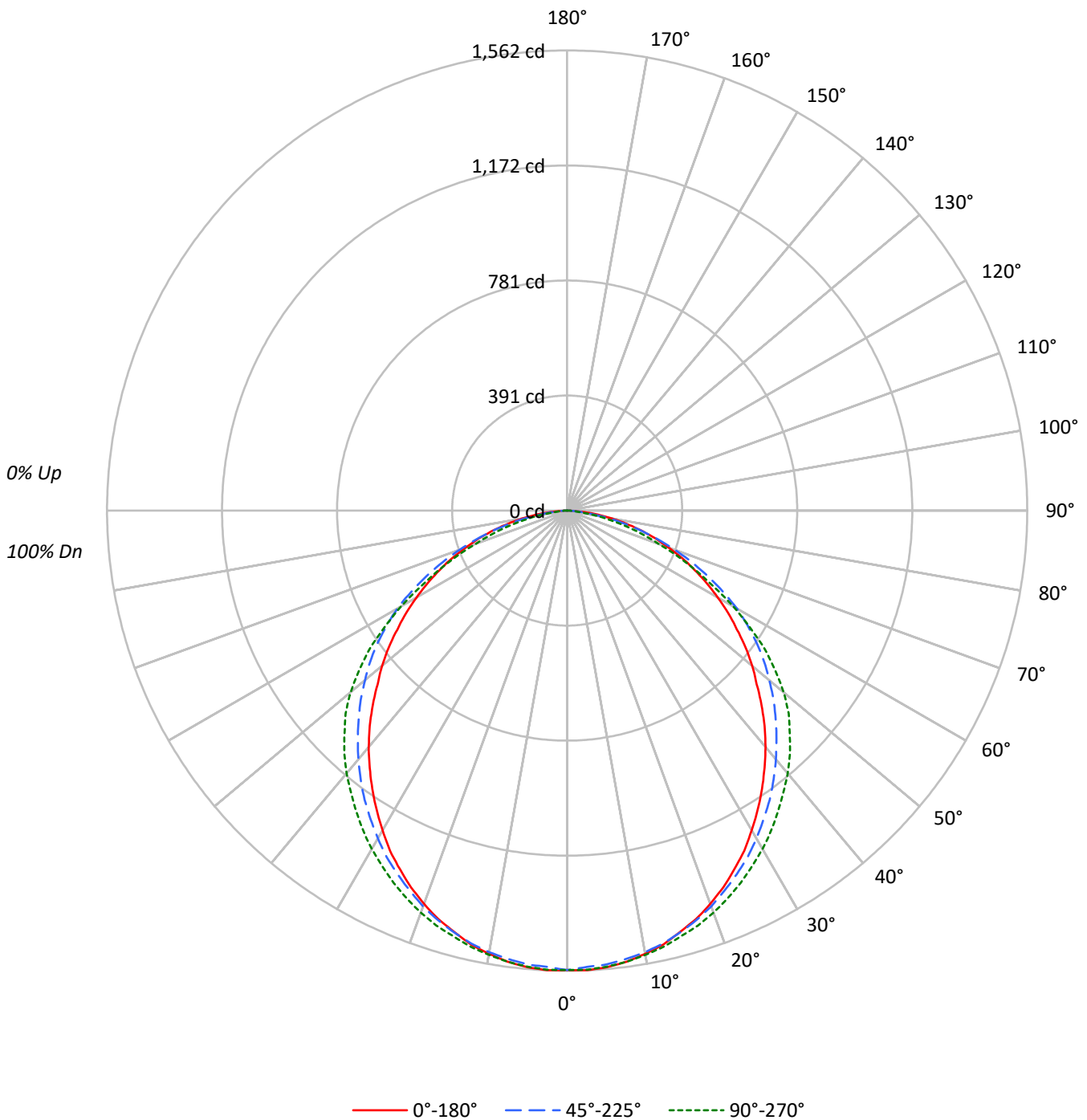
Input Watts (W): 37.293
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4197	4197	4197
5°	4203	4177	4198
10°	4174	4159	4185
15°	4125	4130	4167
20°	4068	4094	4159
25°	3988	4044	4139
30°	3893	3993	4121
35°	3788	3937	4097
40°	3681	3873	4091
45°	3551	3809	4067
50°	3434	3749	4017
55°	3301	3689	3840
60°	3179	3584	3503
65°	3043	3354	3079
70°	2872	3050	2605
75°	2679	2641	2151
80°	2362	2041	1574
85°	1859	988	871



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.4	3.5
10°-20°	419.8	9.9
20°-30°	630.0	14.9
30°-40°	751.1	17.8
40°-50°	773.7	18.3
50°-60°	689.5	16.3
60°-70°	496.8	11.8
70°-80°	259.8	6.2
80°-90°	53.7	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°	1197.2	28.4
0°-40°	1948.4	46.1
0°-60°	3411.6	80.8
0°-90°	4222.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4222.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1560	1560	1560	1560	1560	
5°	1556	1552	1546	1556	1554	148
15°	1481	1482	1482	1498	1496	418
25°	1343	1351	1362	1388	1394	619
35°	1153	1168	1198	1238	1247	721
45°	933	954	1001	1057	1069	720
55°	704	726	786	822	818	631
65°	478	495	527	502	484	473
75°	258	271	254	220	207	273
85°	60	53	32	28	28	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1559.6	1559.6	1559.6	1559.6	1559.6
2.5°	1561.5	1557.7	1550.2	1559.6	1559.6
5°	1555.8	1552.1	1546.4	1555.8	1554.0
7.5°	1544.6	1540.8	1535.2	1546.4	1544.6
10°	1527.6	1525.7	1522.0	1533.3	1531.4
12.5°	1508.8	1506.9	1505.1	1516.3	1516.3
15°	1480.6	1482.5	1482.5	1497.5	1495.6
17.5°	1454.3	1456.1	1458.0	1476.8	1476.8
20°	1420.4	1422.3	1429.8	1450.5	1452.4
22.5°	1384.6	1386.5	1395.9	1420.4	1424.2
25°	1343.3	1350.8	1362.1	1388.4	1394.1
27.5°	1301.9	1307.5	1326.3	1356.4	1360.2
30°	1253.0	1264.2	1284.9	1318.8	1326.3
32.5°	1204.0	1217.2	1241.7	1279.3	1288.7
35°	1153.2	1168.3	1198.4	1237.9	1247.3
37.5°	1100.6	1113.7	1151.4	1192.8	1205.9
40°	1047.9	1061.1	1102.4	1149.5	1164.5
42.5°	991.5	1010.3	1051.7	1104.3	1119.4
45°	933.1	953.8	1000.9	1057.3	1068.6
47.5°	872.9	895.5	950.1	1006.5	1019.7
50°	820.3	840.9	895.5	950.1	959.5
52.5°	763.8	782.6	842.8	888.0	889.9
55°	703.6	726.2	786.4	822.1	818.4
57.5°	649.1	667.9	726.2	745.0	733.7
60°	590.7	607.7	666.0	667.9	650.9
62.5°	534.3	551.2	596.4	583.2	562.5
65°	477.9	494.8	526.8	502.3	483.5
67.5°	423.3	438.3	457.2	425.2	406.4
70°	365.0	385.7	387.6	349.9	331.1
72.5°	314.2	325.5	321.7	286.0	269.0
75°	257.7	270.9	254.0	220.1	206.9
77.5°	205.1	214.5	191.9	159.9	150.5
80°	152.4	158.0	131.7	107.2	101.6
82.5°	103.5	103.5	75.3	58.3	52.7
85°	60.2	52.7	32.0	28.2	28.2
87.5°	20.7	13.2	13.2	13.2	13.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)