

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: P258816

Luminaire Tested: **14CZ-LD5-44-S-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258816
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-L82765-W2A1-U-5700K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4638.0 lumens
Efficiency: N/A
Efficacy: 126.6 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

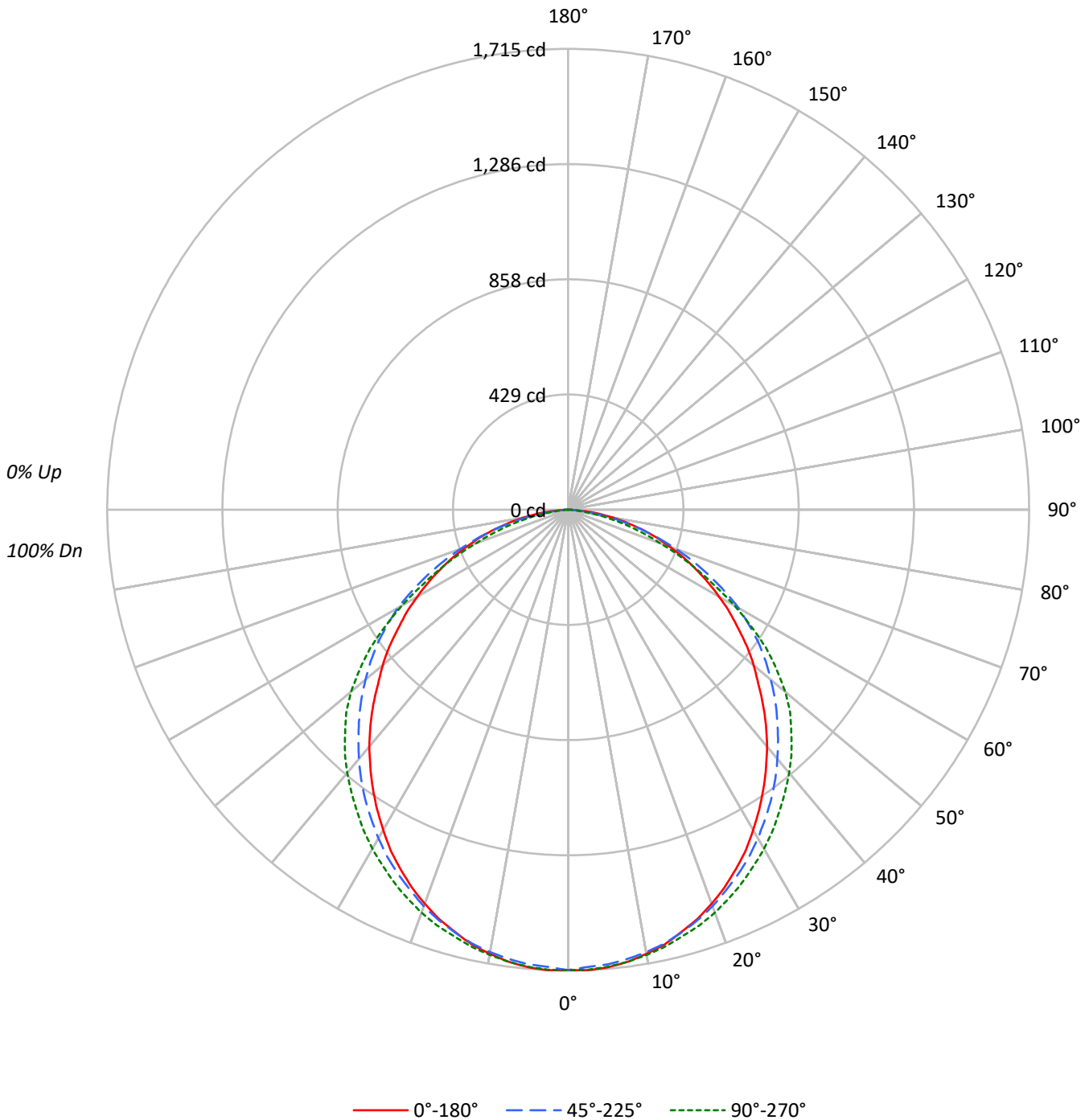
Input Watts (W): 36.642
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4610	4610	4610
5°	4617	4589	4611
10°	4585	4568	4597
15°	4531	4537	4577
20°	4468	4498	4569
25°	4381	4443	4547
30°	4277	4386	4527
35°	4162	4325	4501
40°	4044	4254	4494
45°	3901	4184	4467
50°	3772	4118	4412
55°	3626	4053	4218
60°	3492	3937	3849
65°	3342	3685	3382
70°	3154	3349	2862
75°	2943	2901	2363
80°	2594	2242	1729
85°	2041	1084	957



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.9	3.5
10°-20°	461.2	9.9
20°-30°	692.1	14.9
30°-40°	825.1	17.8
40°-50°	849.9	18.3
50°-60°	757.5	16.3
60°-70°	545.8	11.8
70°-80°	285.4	6.2
80°-90°	59.0	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°	1315.2	28.4
0°-40°	2140.3	46.1
0°-60°	3747.7	80.8
0°-90°	4638.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4638.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1713	1713	1713	1713	1713	
5°	1709	1705	1699	1709	1707	162
15°	1626	1628	1628	1645	1643	459
25°	1476	1484	1496	1525	1531	680
35°	1267	1283	1316	1360	1370	792
45°	1025	1048	1100	1162	1174	791
55°	773	798	864	903	899	693
65°	525	544	579	552	531	520
75°	283	298	279	242	227	300
85°	66	58	35	31	31	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1713.3	1713.3	1713.3	1713.3	1713.3
2.5°	1715.3	1711.2	1702.9	1713.3	1713.3
5°	1709.1	1705.0	1698.8	1709.1	1707.1
7.5°	1696.7	1692.6	1686.4	1698.8	1696.7
10°	1678.1	1676.1	1671.9	1684.3	1682.3
12.5°	1657.5	1655.4	1653.3	1665.7	1665.7
15°	1626.5	1628.5	1628.5	1645.1	1643.0
17.5°	1597.5	1599.6	1601.7	1622.3	1622.3
20°	1560.3	1562.4	1570.7	1593.4	1595.5
22.5°	1521.1	1523.1	1533.5	1560.3	1564.5
25°	1475.6	1483.9	1496.3	1525.2	1531.4
27.5°	1430.1	1436.3	1457.0	1490.1	1494.2
30°	1376.4	1388.8	1411.5	1448.7	1457.0
32.5°	1322.7	1337.1	1364.0	1405.3	1415.7
35°	1266.9	1283.4	1316.5	1359.9	1370.2
37.5°	1209.0	1223.5	1264.8	1310.3	1324.7
40°	1151.1	1165.6	1211.1	1262.7	1279.3
42.5°	1089.1	1109.8	1155.3	1213.1	1229.7
45°	1025.1	1047.8	1099.5	1161.5	1173.9
47.5°	958.9	983.7	1043.7	1105.7	1120.1
50°	901.1	923.8	983.7	1043.7	1054.0
52.5°	839.1	859.7	925.9	975.5	977.5
55°	772.9	797.7	863.9	903.1	899.0
57.5°	713.0	733.7	797.7	818.4	806.0
60°	648.9	667.5	731.6	733.7	715.1
62.5°	586.9	605.5	655.1	640.7	617.9
65°	524.9	543.5	578.7	551.8	531.1
67.5°	465.0	481.5	502.2	467.1	446.4
70°	400.9	423.7	425.7	384.4	363.7
72.5°	345.1	357.5	353.4	314.1	295.5
75°	283.1	297.6	279.0	241.8	227.3
77.5°	225.3	235.6	210.8	175.7	165.3
80°	167.4	173.6	144.7	117.8	111.6
82.5°	113.7	113.7	82.7	64.1	57.9
85°	66.1	57.9	35.1	31.0	31.0
87.5°	22.7	14.5	14.5	14.5	14.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)