

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: P258649

Luminaire Tested: **14CZ-LD5-44-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258649
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35573)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-44-UNV-L82765-W2A1-U-6500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4558.0 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

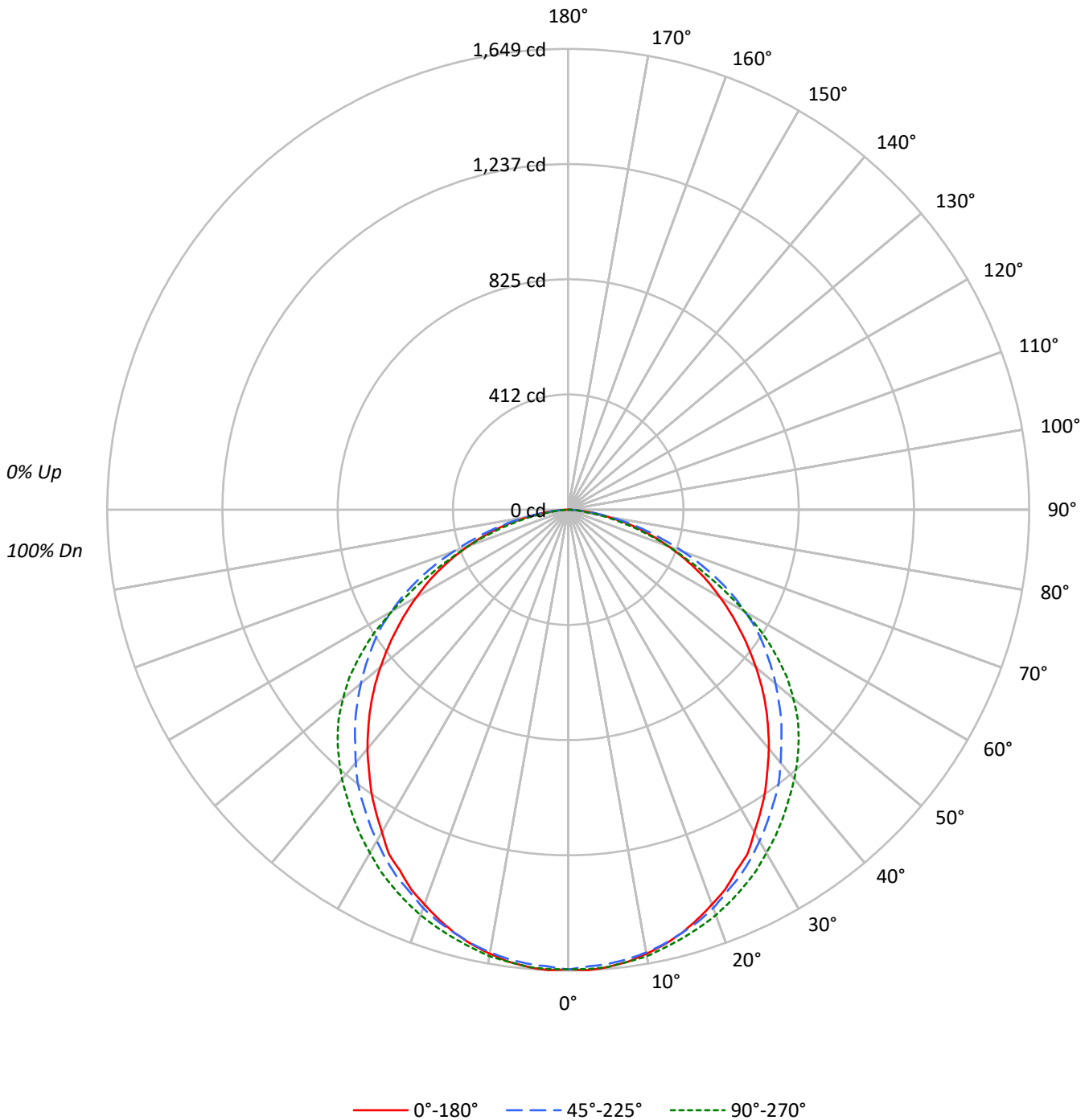
Input Watts (W): 37.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	90	80	72	66	88	78	71	65	75	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	29	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4426	4426	4426
5°	4437	4407	4437
10°	4409	4396	4433
15°	4370	4370	4420
20°	4305	4344	4421
25°	4230	4304	4417
30°	4140	4252	4406
35°	4038	4208	4407
40°	3923	4152	4421
45°	3805	4105	4438
50°	3669	4055	4402
55°	3521	4016	4259
60°	3374	3930	3918
65°	3219	3763	3434
70°	2988	3430	2970
75°	2711	2990	2453
80°	2159	2368	1810
85°	1525	1318	1041



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.6	3.4
10°-20°	444.6	9.8
20°-30°	670.4	14.7
30°-40°	803.5	17.6
40°-50°	833.9	18.3
50°-60°	752.1	16.5
60°-70°	548.6	12.0
70°-80°	287.9	6.3
80°-90°	61.4	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°	1270.6	27.9
0°-40°	2074.1	45.5
0°-60°	3660.1	80.3
0°-90°	4558.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4558.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1645	1645	1645	1645	1645	
5°	1643	1638	1631	1643	1643	156
15°	1568	1568	1568	1586	1586	442
25°	1425	1431	1449	1481	1488	657
35°	1229	1243	1281	1328	1342	768
45°	1000	1020	1079	1144	1166	771
55°	750	778	856	912	908	672
65°	506	535	591	568	539	500
75°	261	297	288	249	236	273
85°	49	61	43	36	34	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1644.9	1644.9	1644.9	1644.9	1644.9
2.5°	1649.3	1644.9	1635.9	1644.9	1644.9
5°	1642.6	1638.1	1631.4	1642.6	1642.6
7.5°	1631.4	1626.9	1622.4	1633.6	1631.4
10°	1613.4	1611.1	1608.9	1622.4	1622.4
12.5°	1593.2	1593.2	1590.9	1606.7	1604.4
15°	1568.5	1568.5	1568.5	1586.4	1586.4
17.5°	1537.0	1541.5	1546.0	1566.2	1566.2
20°	1503.3	1507.8	1516.8	1541.5	1543.7
22.5°	1469.6	1471.8	1480.8	1510.0	1516.8
25°	1424.6	1431.4	1449.4	1480.8	1487.6
27.5°	1388.7	1390.9	1411.2	1447.1	1456.1
30°	1332.5	1348.2	1368.5	1408.9	1417.9
32.5°	1280.8	1294.3	1325.8	1368.5	1381.9
35°	1229.1	1242.6	1280.8	1328.0	1341.5
37.5°	1170.7	1190.9	1235.9	1283.1	1298.8
40°	1116.8	1134.8	1182.0	1240.4	1258.4
42.5°	1058.4	1076.3	1128.0	1193.2	1213.4
45°	999.9	1020.2	1078.6	1143.8	1166.2
47.5°	939.3	961.7	1022.4	1094.3	1114.5
50°	876.4	901.1	968.5	1042.6	1051.6
52.5°	813.4	840.4	912.3	977.5	986.5
55°	750.5	777.5	856.1	912.3	907.8
57.5°	689.8	719.1	800.0	829.2	824.7
60°	626.9	658.4	730.3	743.8	728.0
62.5°	568.5	597.7	665.1	653.9	633.7
65°	505.6	534.8	591.0	568.5	539.3
67.5°	442.7	478.6	514.6	476.4	453.9
70°	379.8	420.2	435.9	397.7	377.5
72.5°	319.1	361.8	357.3	319.1	305.6
75°	260.7	296.6	287.6	249.4	235.9
77.5°	197.7	238.2	218.0	186.5	175.3
80°	139.3	175.3	152.8	125.8	116.8
82.5°	92.1	116.8	94.4	74.2	67.4
85°	49.4	60.7	42.7	36.0	33.7
87.5°	20.2	18.0	15.7	15.7	13.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)