

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: P258648

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258648
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-5700K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4547.0 lumens
Efficiency: N/A
Efficacy: 124.1 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

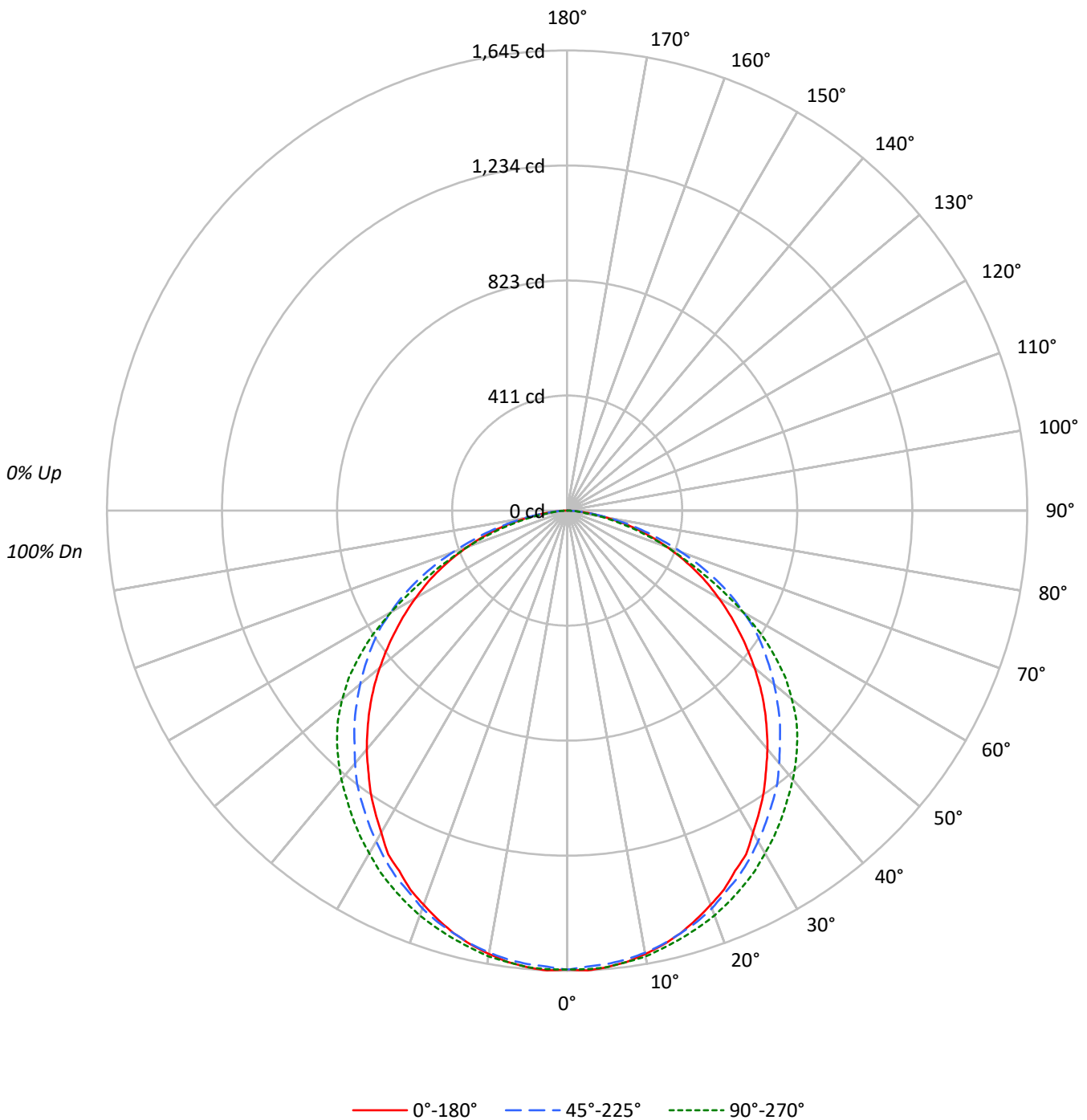
Input Watts (W): 36.642
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4416	4416	4416
5°	4426	4396	4426
10°	4398	4386	4423
15°	4359	4359	4409
20°	4295	4333	4410
25°	4220	4293	4406
30°	4131	4242	4395
35°	4028	4197	4396
40°	3914	4142	4410
45°	3796	4095	4427
50°	3660	4045	4392
55°	3513	4007	4249
60°	3366	3921	3909
65°	3212	3754	3426
70°	2980	3422	2963
75°	2703	2983	2447
80°	2154	2362	1807
85°	1522	1315	1037



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.3	3.4
10°-20°	443.5	9.8
20°-30°	668.7	14.7
30°-40°	801.6	17.6
40°-50°	831.9	18.3
50°-60°	750.3	16.5
60°-70°	547.3	12.0
70°-80°	287.2	6.3
80°-90°	61.2	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°	1267.5	27.9
0°-40°	2069.1	45.5
0°-60°	3651.3	80.3
0°-90°	4547.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4547.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1641	1641	1641	1641	1641	
5°	1639	1634	1627	1639	1639	155
15°	1565	1565	1565	1583	1583	441
25°	1421	1428	1446	1477	1484	656
35°	1226	1240	1278	1325	1338	766
45°	998	1018	1076	1141	1163	769
55°	749	776	854	910	906	670
65°	504	534	590	567	538	499
75°	260	296	287	249	235	273
85°	49	60	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°	1640.9	1640.9	1640.9	1640.9	1640.9
2.5°	1645.4	1640.9	1631.9	1640.9	1640.9
5°	1638.6	1634.2	1627.4	1638.6	1638.6
7.5°	1627.4	1623.0	1618.5	1629.7	1627.4
10°	1609.5	1607.3	1605.0	1618.5	1618.5
12.5°	1589.3	1589.3	1587.1	1602.8	1600.5
15°	1564.7	1564.7	1564.7	1582.6	1582.6
17.5°	1533.3	1537.8	1542.3	1562.4	1562.4
20°	1499.7	1504.1	1513.1	1537.8	1540.0
22.5°	1466.0	1468.3	1477.2	1506.4	1513.1
25°	1421.2	1427.9	1445.9	1477.2	1484.0
27.5°	1385.3	1387.6	1407.8	1443.6	1452.6
30°	1329.3	1345.0	1365.2	1405.5	1414.5
32.5°	1277.7	1291.2	1322.6	1365.2	1378.6
35°	1226.2	1239.6	1277.7	1324.8	1338.3
37.5°	1167.9	1188.1	1232.9	1280.0	1295.7
40°	1114.1	1132.0	1179.1	1237.4	1255.3
42.5°	1055.8	1073.7	1125.3	1190.3	1210.5
45°	997.5	1017.7	1076.0	1141.0	1163.4
47.5°	937.0	959.4	1019.9	1091.7	1111.9
50°	874.2	898.9	966.1	1040.1	1049.1
52.5°	811.5	838.4	910.1	975.1	984.1
55°	748.7	775.6	854.1	910.1	905.6
57.5°	688.2	717.3	798.0	827.2	822.7
60°	625.4	656.8	728.5	742.0	726.3
62.5°	567.1	596.3	663.5	652.3	632.1
65°	504.4	533.5	589.6	567.1	538.0
67.5°	441.6	477.5	513.3	475.2	452.8
70°	378.8	419.2	434.9	396.8	376.6
72.5°	318.3	360.9	356.4	318.3	304.9
75°	260.0	295.9	286.9	248.8	235.4
77.5°	197.3	237.6	217.4	186.1	174.8
80°	139.0	174.8	152.4	125.5	116.6
82.5°	91.9	116.6	94.1	74.0	67.2
85°	49.3	60.5	42.6	35.9	33.6
87.5°	20.2	17.9	15.7	15.7	13.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)