

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: P258644

Luminaire Tested: **14CZ-LD5-44-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258644
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-4000K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4353.0 lumens
Efficiency: N/A
Efficacy: 120.9 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

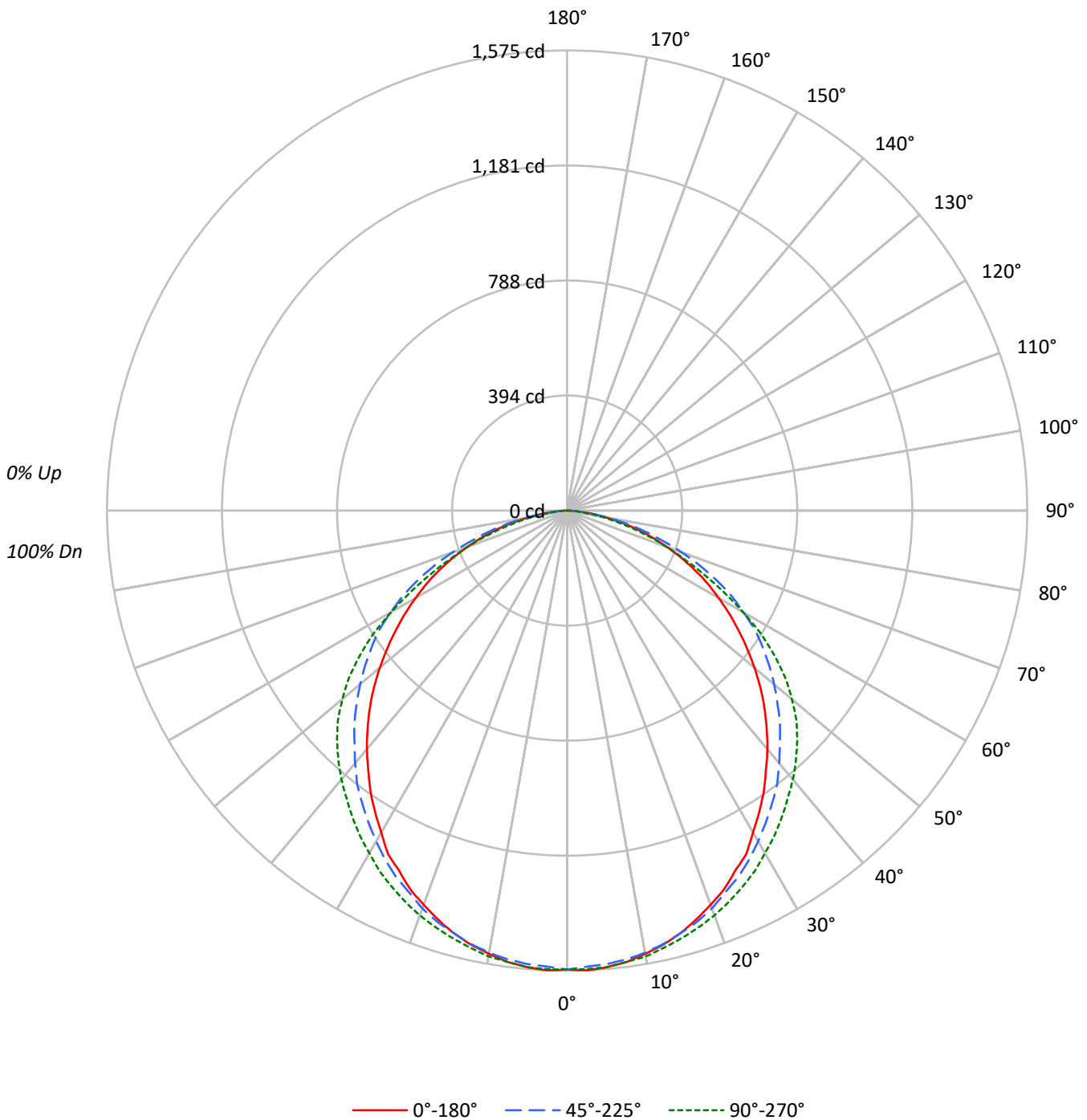
Input Watts (W): 35.991
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4227	4227	4227
5°	4237	4209	4237
10°	4210	4198	4234
15°	4173	4173	4221
20°	4111	4148	4222
25°	4040	4110	4218
30°	3954	4061	4208
35°	3856	4018	4209
40°	3747	3965	4222
45°	3634	3920	4239
50°	3504	3872	4204
55°	3363	3836	4068
60°	3222	3754	3742
65°	3075	3594	3279
70°	2854	3275	2836
75°	2588	2856	2342
80°	2063	2261	1729
85°	1457	1260	994



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.6	3.4
10°-20°	424.6	9.8
20°-30°	640.2	14.7
30°-40°	767.4	17.6
40°-50°	796.4	18.3
50°-60°	718.3	16.5
60°-70°	524.0	12.0
70°-80°	274.9	6.3
80°-90°	58.6	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°	1213.5	27.9
0°-40°	1980.8	45.5
0°-60°	3495.5	80.3
0°-90°	4353.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4353.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1571	1571	1571	1571	1571	
5°	1569	1564	1558	1569	1569	149
15°	1498	1498	1498	1515	1515	422
25°	1361	1367	1384	1414	1421	628
35°	1174	1187	1223	1268	1281	733
45°	955	974	1030	1092	1114	736
55°	717	742	818	871	867	642
65°	483	511	564	543	515	477
75°	249	283	275	238	225	261
85°	47	58	41	34	32	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1570.9	1570.9	1570.9	1570.9	1570.9
2.5°	1575.2	1570.9	1562.3	1570.9	1570.9
5°	1568.7	1564.4	1558.0	1568.7	1568.7
7.5°	1558.0	1553.7	1549.4	1560.1	1558.0
10°	1540.8	1538.7	1536.5	1549.4	1549.4
12.5°	1521.5	1521.5	1519.4	1534.4	1532.2
15°	1497.9	1497.9	1497.9	1515.1	1515.1
17.5°	1467.9	1472.2	1476.5	1495.8	1495.8
20°	1435.7	1440.0	1448.6	1472.2	1474.3
22.5°	1403.5	1405.6	1414.2	1442.1	1448.6
25°	1360.6	1367.0	1384.2	1414.2	1420.7
27.5°	1326.2	1328.4	1347.7	1382.0	1390.6
30°	1272.6	1287.6	1306.9	1345.5	1354.1
32.5°	1223.2	1236.1	1266.1	1306.9	1319.8
35°	1173.9	1186.7	1223.2	1268.3	1281.2
37.5°	1118.1	1137.4	1180.3	1225.4	1240.4
40°	1066.6	1083.7	1128.8	1184.6	1201.8
42.5°	1010.8	1027.9	1077.3	1139.5	1158.8
45°	955.0	974.3	1030.1	1092.3	1113.8
47.5°	897.0	918.5	976.4	1045.1	1064.4
50°	836.9	860.5	924.9	995.7	1004.3
52.5°	776.9	802.6	871.3	933.5	942.1
55°	716.8	742.5	817.6	871.3	867.0
57.5°	658.8	686.7	764.0	791.9	787.6
60°	598.7	628.8	697.5	710.3	695.3
62.5°	542.9	570.8	635.2	624.5	605.2
65°	482.9	510.7	564.4	542.9	515.0
67.5°	422.8	457.1	491.4	455.0	433.5
70°	362.7	401.3	416.3	379.8	360.5
72.5°	304.7	345.5	341.2	304.7	291.9
75°	248.9	283.3	274.7	238.2	225.3
77.5°	188.8	227.5	208.2	178.1	167.4
80°	133.1	167.4	145.9	120.2	111.6
82.5°	88.0	111.6	90.1	70.8	64.4
85°	47.2	57.9	40.8	34.3	32.2
87.5°	19.3	17.2	15.0	15.0	12.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)