

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: P258811

Luminaire Tested: **14CZ-LD5-44-S-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258811
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-3500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4344.0 lumens
Efficiency: N/A
Efficacy: 121.3 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

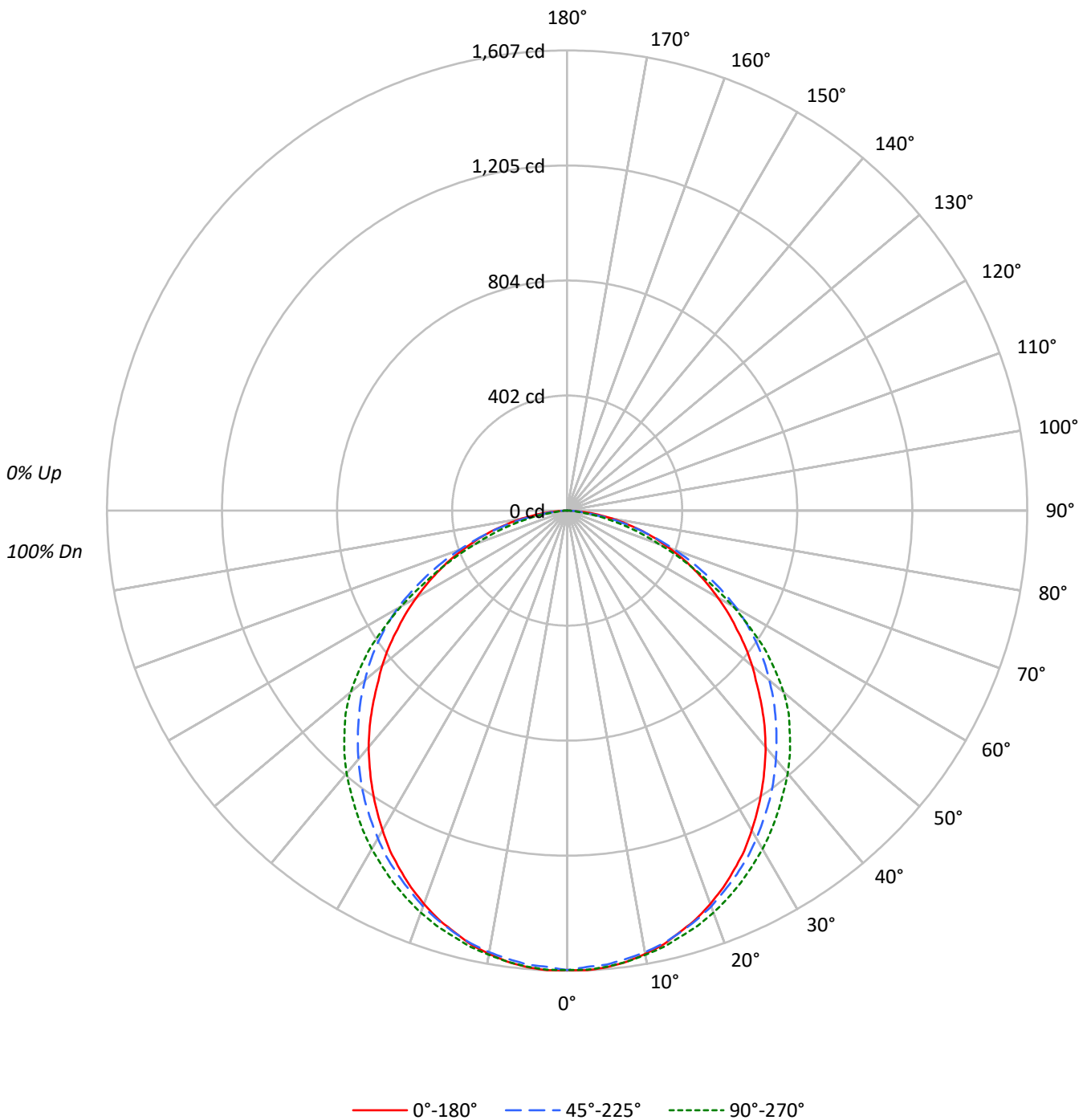
Input Watts (W): 35.805
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4318	4318	4318
5°	4324	4298	4319
10°	4295	4279	4305
15°	4244	4249	4287
20°	4185	4213	4279
25°	4104	4161	4259
30°	4006	4108	4240
35°	3898	4051	4216
40°	3788	3985	4209
45°	3654	3919	4184
50°	3533	3857	4133
55°	3396	3796	3950
60°	3271	3688	3604
65°	3131	3451	3168
70°	2954	3137	2681
75°	2757	2717	2214
80°	2430	2100	1619
85°	1911	1016	895



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.6	3.5
10°-20°	432.0	9.9
20°-30°	648.3	14.9
30°-40°	772.8	17.8
40°-50°	796.1	18.3
50°-60°	709.4	16.3
60°-70°	511.2	11.8
70°-80°	267.3	6.2
80°-90°	55.3	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°	1231.8	28.4
0°-40°	2004.7	46.1
0°-60°	3510.2	80.8
0°-90°	4344.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4344.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1605	1605	1605	1605	1605	
5°	1601	1597	1591	1601	1599	152
15°	1523	1525	1525	1541	1539	430
25°	1382	1390	1401	1428	1434	637
35°	1187	1202	1233	1274	1283	742
45°	960	981	1030	1088	1100	741
55°	724	747	809	846	842	649
65°	492	509	542	517	498	487
75°	265	279	261	226	213	281
85°	62	54	33	29	29	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1604.7	1604.7	1604.7	1604.7	1604.7
2.5°	1606.6	1602.7	1595.0	1604.7	1604.7
5°	1600.8	1596.9	1591.1	1600.8	1598.9
7.5°	1589.2	1585.3	1579.5	1591.1	1589.2
10°	1571.8	1569.8	1566.0	1577.6	1575.6
12.5°	1552.4	1550.5	1548.5	1560.2	1560.2
15°	1523.4	1525.3	1525.3	1540.8	1538.9
17.5°	1496.3	1498.2	1500.1	1519.5	1519.5
20°	1461.4	1463.4	1471.1	1492.4	1494.3
22.5°	1424.7	1426.6	1436.3	1461.4	1465.3
25°	1382.1	1389.8	1401.4	1428.5	1434.3
27.5°	1339.5	1345.3	1364.7	1395.6	1399.5
30°	1289.2	1300.8	1322.1	1356.9	1364.7
32.5°	1238.8	1252.4	1277.5	1316.3	1325.9
35°	1186.6	1202.1	1233.0	1273.7	1283.4
37.5°	1132.4	1145.9	1184.6	1227.2	1240.8
40°	1078.2	1091.7	1134.3	1182.7	1198.2
42.5°	1020.1	1039.5	1082.0	1136.2	1151.7
45°	960.1	981.4	1029.8	1087.8	1099.5
47.5°	898.2	921.4	977.5	1035.6	1049.1
50°	844.0	865.2	921.4	977.5	987.2
52.5°	785.9	805.2	867.2	913.6	915.6
55°	723.9	747.2	809.1	845.9	842.0
57.5°	667.8	687.2	747.2	766.5	754.9
60°	607.8	625.2	685.2	687.2	669.7
62.5°	549.7	567.2	613.6	600.1	578.8
65°	491.7	509.1	542.0	516.8	497.5
67.5°	435.5	451.0	470.4	437.5	418.1
70°	375.5	396.8	398.7	360.0	340.7
72.5°	323.3	334.9	331.0	294.2	276.8
75°	265.2	278.7	261.3	226.5	212.9
77.5°	211.0	220.7	197.4	164.5	154.9
80°	156.8	162.6	135.5	110.3	104.5
82.5°	106.5	106.5	77.4	60.0	54.2
85°	61.9	54.2	32.9	29.0	29.0
87.5°	21.3	13.5	13.5	13.5	13.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)