

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: P258562

Luminaire Tested: **14CZ-LD5-44-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258562
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-L83050-W2A1-U-3500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4361.0 lumens
Efficiency: N/A
Efficacy: 122.4 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

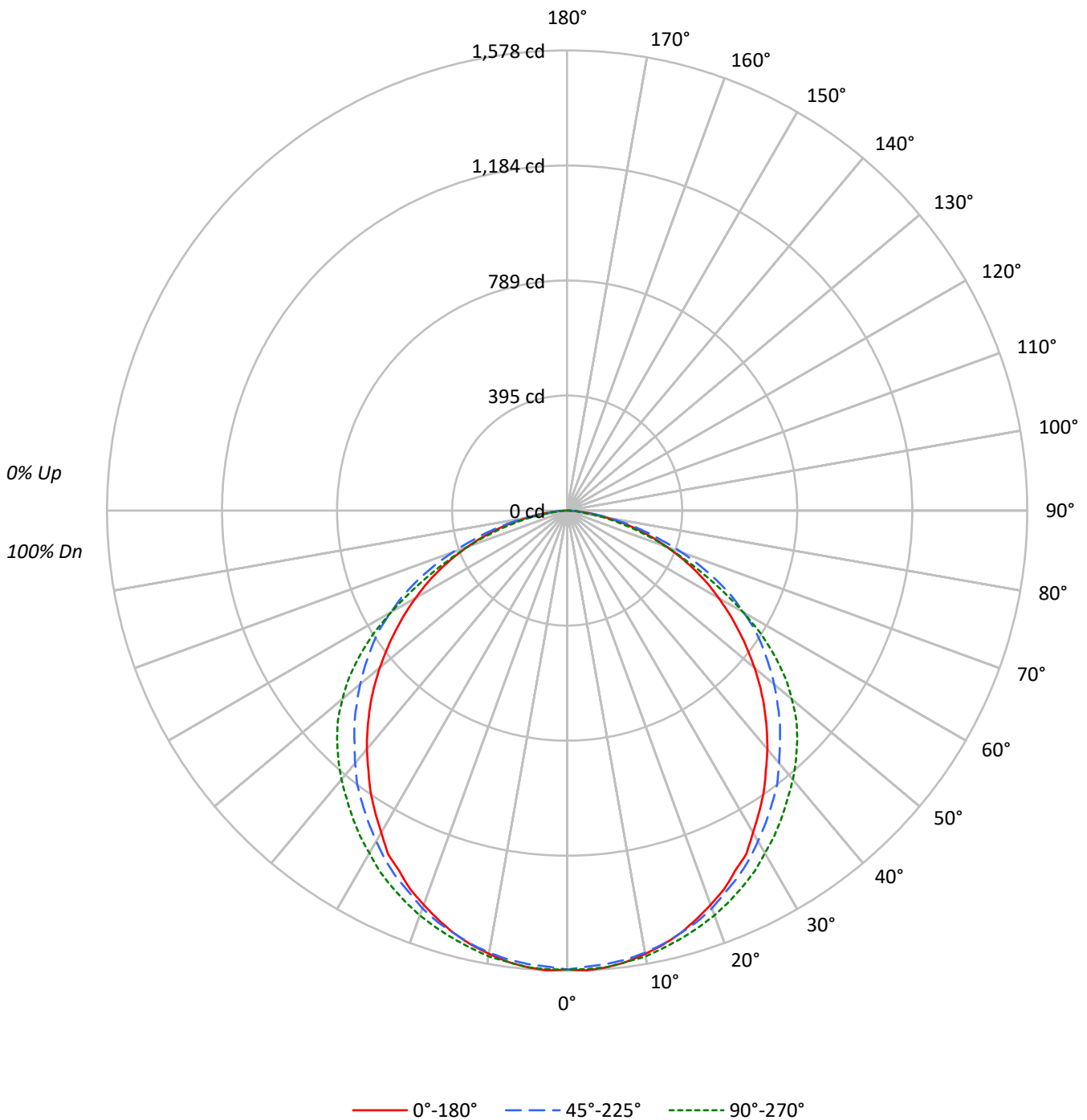
Input Watts (W): 35.619
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4235	4235	4235
5°	4245	4216	4245
10°	4218	4206	4242
15°	4181	4181	4229
20°	4119	4156	4230
25°	4047	4117	4226
30°	3961	4068	4215
35°	3863	4026	4216
40°	3753	3973	4229
45°	3641	3927	4246
50°	3510	3879	4212
55°	3369	3843	4075
60°	3228	3760	3749
65°	3080	3600	3286
70°	2858	3282	2842
75°	2593	2861	2347
80°	2066	2266	1733
85°	1460	1260	994



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.9	3.4
10°-20°	425.4	9.8
20°-30°	641.4	14.7
30°-40°	768.8	17.6
40°-50°	797.8	18.3
50°-60°	719.6	16.5
60°-70°	524.9	12.0
70°-80°	275.4	6.3
80°-90°	58.7	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°	1215.7	27.9
0°-40°	1984.5	45.5
0°-60°	3501.9	80.3
0°-90°	4361.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4361.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1574	1574	1574	1574	1574	
5°	1572	1567	1561	1572	1572	149
15°	1501	1501	1501	1518	1518	423
25°	1363	1370	1387	1417	1423	629
35°	1176	1189	1226	1271	1284	735
45°	957	976	1032	1094	1116	737
55°	718	744	819	873	869	643
65°	484	512	565	544	516	478
75°	249	284	275	239	226	262
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°	1573.8	1573.8	1573.8	1573.8	1573.8
2.5°	1578.1	1573.8	1565.2	1573.8	1573.8
5°	1571.6	1567.3	1560.9	1571.6	1571.6
7.5°	1560.9	1556.6	1552.3	1563.0	1560.9
10°	1543.7	1541.5	1539.4	1552.3	1552.3
12.5°	1524.3	1524.3	1522.2	1537.2	1535.1
15°	1500.7	1500.7	1500.7	1517.9	1517.9
17.5°	1470.6	1474.9	1479.2	1498.5	1498.5
20°	1438.3	1442.6	1451.2	1474.9	1477.0
22.5°	1406.1	1408.2	1416.8	1444.8	1451.2
25°	1363.1	1369.5	1386.7	1416.8	1423.3
27.5°	1328.7	1330.8	1350.2	1384.6	1393.2
30°	1274.9	1290.0	1309.3	1348.0	1356.6
32.5°	1225.5	1238.4	1268.5	1309.3	1322.2
35°	1176.0	1188.9	1225.5	1270.6	1283.5
37.5°	1120.1	1139.5	1182.5	1227.6	1242.7
40°	1068.5	1085.7	1130.9	1186.8	1204.0
42.5°	1012.6	1029.8	1079.3	1141.6	1161.0
45°	956.7	976.1	1032.0	1094.3	1115.8
47.5°	898.7	920.2	978.2	1047.0	1066.4
50°	838.5	862.1	926.6	997.6	1006.2
52.5°	778.3	804.1	872.9	935.2	943.8
55°	718.1	743.9	819.1	872.9	868.6
57.5°	660.0	688.0	765.4	793.3	789.0
60°	599.8	629.9	698.7	711.6	696.6
62.5°	543.9	571.9	636.4	625.6	606.3
65°	483.7	511.7	565.4	543.9	516.0
67.5°	423.5	457.9	492.3	455.8	434.3
70°	363.3	402.0	417.1	380.5	361.2
72.5°	305.3	346.1	341.8	305.3	292.4
75°	249.4	283.8	275.2	238.6	225.7
77.5°	189.2	227.9	208.5	178.4	167.7
80°	133.3	167.7	146.2	120.4	111.8
82.5°	88.1	111.8	90.3	70.9	64.5
85°	47.3	58.0	40.8	34.4	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)