

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: P258727

Luminaire Tested: **14CZ-LD5-39-S-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258727
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-LD5-39-S-UNV-L83050-W2A1-U-4500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4217.8 lumens
Efficiency: N/A
Efficacy: 130.0 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

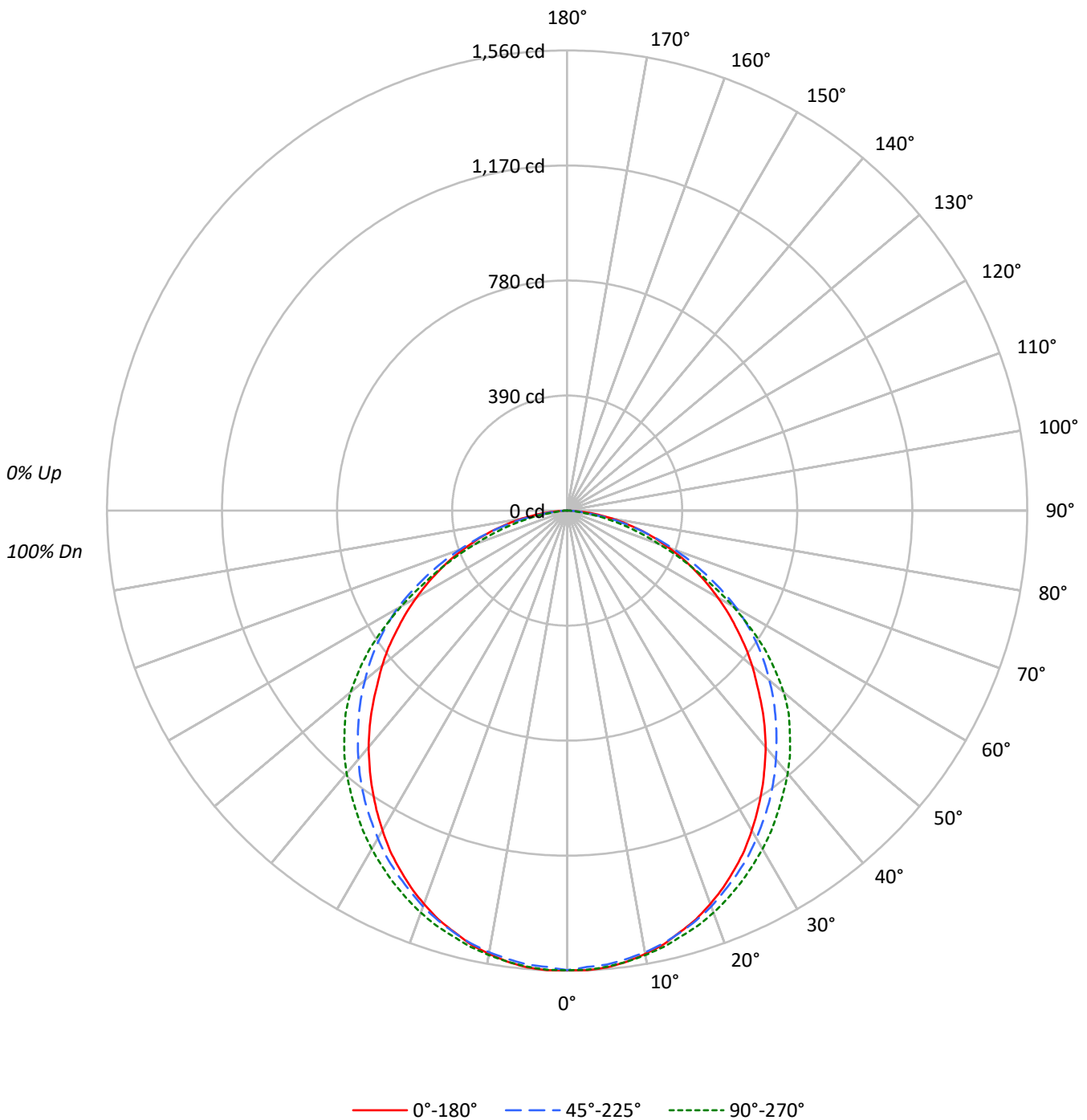
Input Watts (W): 32.457
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4193	4193	4193
5°	4199	4173	4193
10°	4170	4155	4180
15°	4121	4126	4162
20°	4064	4090	4155
25°	3984	4040	4135
30°	3889	3988	4117
35°	3785	3933	4094
40°	3677	3869	4087
45°	3548	3805	4062
50°	3430	3745	4013
55°	3298	3686	3835
60°	3176	3581	3500
65°	3040	3351	3075
70°	2869	3046	2603
75°	2677	2638	2149
80°	2359	2039	1573
85°	1856	988	871



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.2	3.5
10°-20°	419.4	9.9
20°-30°	629.4	14.9
30°-40°	750.4	17.8
40°-50°	772.9	18.3
50°-60°	688.8	16.3
60°-70°	496.3	11.8
70°-80°	259.6	6.2
80°-90°	53.7	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°	1196.0	28.4
0°-40°	1946.4	46.1
0°-60°	3408.2	80.8
0°-90°	4217.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4217.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1558	1558	1558	1558	1558	
5°	1554	1550	1545	1554	1552	147
15°	1479	1481	1481	1496	1494	417
25°	1342	1349	1361	1387	1393	618
35°	1152	1167	1197	1237	1246	720
45°	932	953	1000	1056	1068	719
55°	703	726	786	821	818	630
65°	477	494	526	502	483	473
75°	258	271	254	220	207	273
85°	60	53	32	28	28	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1558.0	1558.0	1558.0	1558.0	1558.0
2.5°	1559.9	1556.2	1548.6	1558.0	1558.0
5°	1554.3	1550.5	1544.9	1554.3	1552.4
7.5°	1543.0	1539.2	1533.6	1544.9	1543.0
10°	1526.1	1524.2	1520.5	1531.7	1529.9
12.5°	1507.3	1505.4	1503.5	1514.8	1514.8
15°	1479.1	1481.0	1481.0	1496.0	1494.1
17.5°	1452.8	1454.7	1456.6	1475.3	1475.3
20°	1419.0	1420.8	1428.4	1449.0	1450.9
22.5°	1383.3	1385.1	1394.5	1419.0	1422.7
25°	1341.9	1349.4	1360.7	1387.0	1392.7
27.5°	1300.6	1306.2	1325.0	1355.1	1358.8
30°	1251.7	1263.0	1283.6	1317.5	1325.0
32.5°	1202.8	1216.0	1240.4	1278.0	1287.4
35°	1152.1	1167.1	1197.2	1236.7	1246.1
37.5°	1099.5	1112.6	1150.2	1191.6	1204.7
40°	1046.8	1060.0	1101.3	1148.3	1163.4
42.5°	990.5	1009.3	1050.6	1103.2	1118.3
45°	932.2	952.9	999.9	1056.2	1067.5
47.5°	872.1	894.6	949.1	1005.5	1018.6
50°	819.4	840.1	894.6	949.1	958.5
52.5°	763.0	781.8	842.0	887.1	889.0
55°	702.9	725.5	785.6	821.3	817.5
57.5°	648.4	667.2	725.5	744.3	733.0
60°	590.1	607.1	665.3	667.2	650.3
62.5°	533.8	550.7	595.8	582.6	561.9
65°	477.4	494.3	526.2	501.8	483.0
67.5°	422.9	437.9	456.7	424.7	406.0
70°	364.6	385.3	387.2	349.6	330.8
72.5°	313.9	325.1	321.4	285.7	268.8
75°	257.5	270.6	253.7	219.9	206.7
77.5°	204.9	214.3	191.7	159.8	150.4
80°	152.2	157.9	131.6	107.1	101.5
82.5°	103.4	103.4	75.2	58.3	52.6
85°	60.1	52.6	32.0	28.2	28.2
87.5°	20.7	13.2	13.2	13.2	13.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)