

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: P230927

Luminaire Tested: **14CZ-LD5-39-S-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230927
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-L950-CD1-U
Description: CRUZE 1x4 LED TROFFER
WITH SMOOTH LENS
Light Source: (84) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3876.0 lumens
Efficiency: N/A
Efficacy: 108.6 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

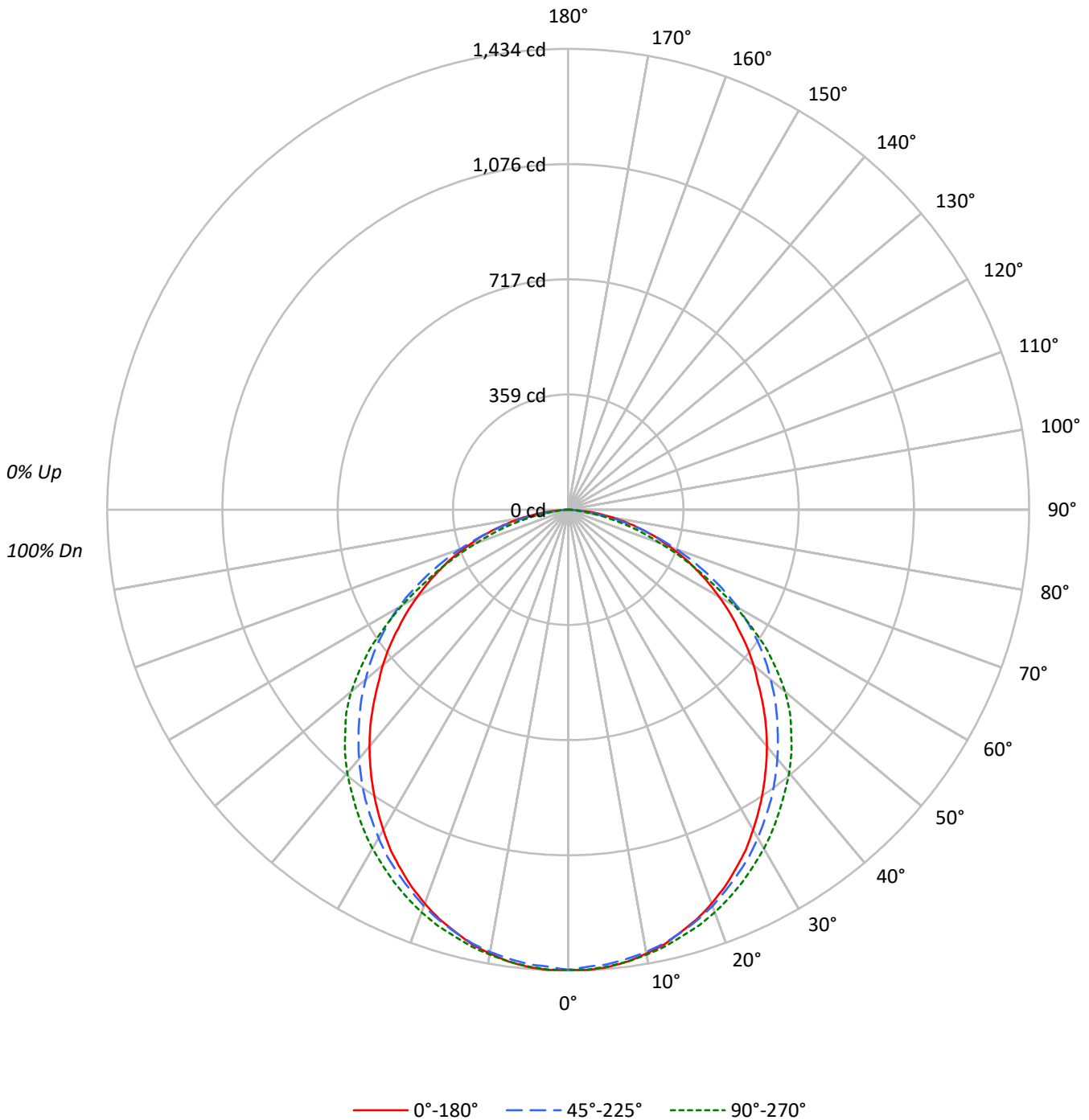
Input Watts (W): 35.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3853	3853	3853
5°	3858	3835	3854
10°	3832	3818	3842
15°	3787	3792	3825
20°	3734	3759	3818
25°	3662	3713	3800
30°	3574	3665	3783
35°	3478	3614	3762
40°	3379	3555	3756
45°	3260	3497	3733
50°	3152	3442	3687
55°	3030	3387	3525
60°	2919	3291	3216
65°	2793	3079	2826
70°	2637	2799	2392
75°	2460	2425	1975
80°	2168	1874	1446
85°	1707	908	800



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.3	3.5
10°-20°	385.4	9.9
20°-30°	578.4	14.9
30°-40°	689.6	17.8
40°-50°	710.3	18.3
50°-60°	633.0	16.3
60°-70°	456.1	11.8
70°-80°	238.5	6.2
80°-90°	49.3	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°	1099.1	28.4
0°-40°	1788.7	46.1
0°-60°	3132.0	80.8
0°-90°	3876.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3876.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1432	1432	1432	1432	1432	
5°	1428	1425	1420	1428	1427	136
15°	1359	1361	1361	1375	1373	384
25°	1233	1240	1250	1275	1280	568
35°	1059	1073	1100	1136	1145	662
45°	857	876	919	971	981	661
55°	646	667	722	755	751	579
65°	439	454	484	461	444	435
75°	237	249	233	202	190	251
85°	55	48	29	26	26	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1431.8	1431.8	1431.8	1431.8	1431.8
2.5°	1433.5	1430.1	1423.2	1431.8	1431.8
5°	1428.3	1424.9	1419.7	1428.3	1426.6
7.5°	1418.0	1414.5	1409.3	1419.7	1418.0
10°	1402.4	1400.7	1397.3	1407.6	1405.9
12.5°	1385.2	1383.4	1381.7	1392.1	1392.1
15°	1359.3	1361.0	1361.0	1374.8	1373.1
17.5°	1335.1	1336.8	1338.5	1355.8	1355.8
20°	1304.0	1305.7	1312.6	1331.6	1333.3
22.5°	1271.2	1272.9	1281.5	1304.0	1307.4
25°	1233.2	1240.1	1250.4	1274.6	1279.8
27.5°	1195.2	1200.4	1217.6	1245.3	1248.7
30°	1150.3	1160.6	1179.6	1210.7	1217.6
32.5°	1105.4	1117.5	1139.9	1174.5	1183.1
35°	1058.7	1072.6	1100.2	1136.5	1145.1
37.5°	1010.4	1022.5	1057.0	1095.0	1107.1
40°	962.0	974.1	1012.1	1055.3	1069.1
42.5°	910.2	927.5	965.5	1013.8	1027.6
45°	856.7	875.7	918.8	970.7	981.0
47.5°	801.4	822.1	872.2	924.0	936.1
50°	753.0	772.0	822.1	872.2	880.8
52.5°	701.2	718.5	773.8	815.2	816.9
55°	645.9	666.7	721.9	754.8	751.3
57.5°	595.9	613.1	666.7	683.9	673.6
60°	542.3	557.9	611.4	613.1	597.6
62.5°	490.5	506.1	547.5	535.4	516.4
65°	438.7	454.2	483.6	461.1	443.9
67.5°	388.6	402.4	419.7	390.3	373.1
70°	335.1	354.1	355.8	321.2	304.0
72.5°	288.4	298.8	295.3	262.5	247.0
75°	236.6	248.7	233.2	202.1	190.0
77.5°	188.3	196.9	176.2	146.8	138.2
80°	139.9	145.1	120.9	98.4	93.3
82.5°	95.0	95.0	69.1	53.5	48.4
85°	55.3	48.4	29.4	25.9	25.9
87.5°	19.0	12.1	12.1	12.1	12.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)