

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: P258861

Luminaire Tested: **14CZ-LD5-39-S-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258861
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-L92765-W2A1-U-5700K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3752.0 lumens
Efficiency: N/A
Efficacy: 117.6 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

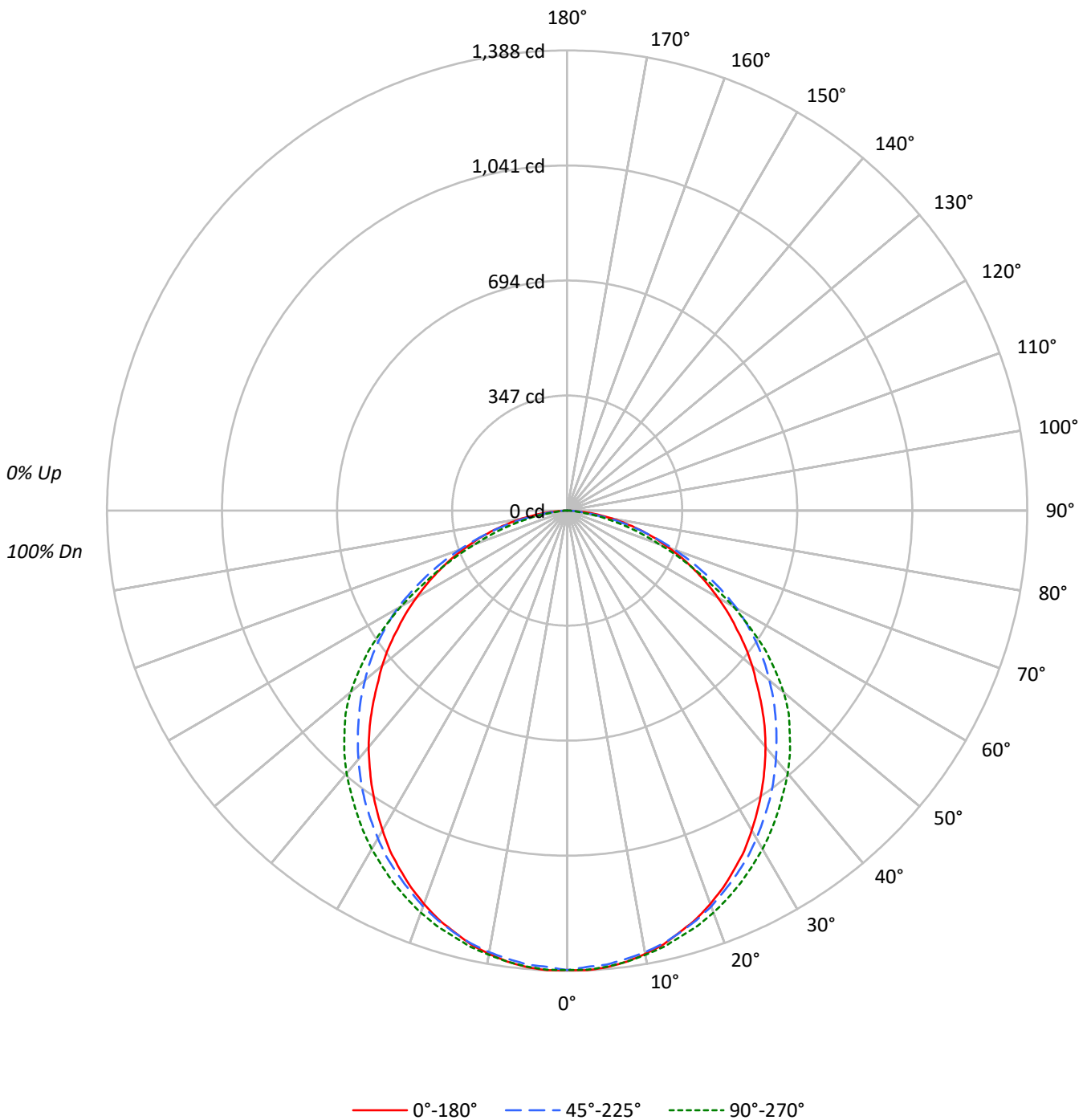
Input Watts (W): 31.899
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3730	3730	3730
5°	3735	3712	3730
10°	3710	3696	3719
15°	3666	3670	3703
20°	3615	3639	3696
25°	3544	3594	3679
30°	3460	3548	3663
35°	3367	3499	3642
40°	3271	3442	3635
45°	3156	3385	3614
50°	3051	3332	3570
55°	2934	3278	3412
60°	2826	3185	3113
65°	2704	2981	2736
70°	2552	2710	2316
75°	2381	2347	1912
80°	2098	1813	1399
85°	1652	877	775



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.0	3.5
10°-20°	373.1	9.9
20°-30°	559.9	14.9
30°-40°	667.5	17.8
40°-50°	687.6	18.3
50°-60°	612.8	16.3
60°-70°	441.5	11.8
70°-80°	230.9	6.2
80°-90°	47.8	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°	1064.0	28.4
0°-40°	1731.5	46.1
0°-60°	3031.8	80.8
0°-90°	3752.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3752.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1386	1386	1386	1386	1386	
5°	1383	1379	1374	1383	1381	131
15°	1316	1317	1317	1331	1329	371
25°	1194	1200	1210	1234	1239	550
35°	1025	1038	1065	1100	1108	641
45°	829	848	889	940	950	640
55°	625	645	699	731	727	561
65°	425	440	468	446	430	421
75°	229	241	226	196	184	243
85°	54	47	28	25	25	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1386.0	1386.0	1386.0	1386.0	1386.0
2.5°	1387.7	1384.3	1377.6	1386.0	1386.0
5°	1382.6	1379.3	1374.3	1382.6	1381.0
7.5°	1372.6	1369.3	1364.3	1374.3	1372.6
10°	1357.6	1355.9	1352.6	1362.6	1360.9
12.5°	1340.8	1339.2	1337.5	1347.5	1347.5
15°	1315.8	1317.4	1317.4	1330.8	1329.1
17.5°	1292.4	1294.0	1295.7	1312.4	1312.4
20°	1262.3	1263.9	1270.6	1289.0	1290.7
22.5°	1230.5	1232.2	1240.5	1262.3	1265.6
25°	1193.7	1200.4	1210.4	1233.8	1238.9
27.5°	1156.9	1162.0	1178.7	1205.4	1208.8
30°	1113.5	1123.5	1141.9	1172.0	1178.7
32.5°	1070.0	1081.7	1103.4	1136.9	1145.2
35°	1024.9	1038.2	1065.0	1100.1	1108.5
37.5°	978.1	989.8	1023.2	1060.0	1071.7
40°	931.2	942.9	979.7	1021.5	1034.9
42.5°	881.1	897.8	934.6	981.4	994.8
45°	829.3	847.6	889.4	939.6	949.6
47.5°	775.8	795.8	844.3	894.5	906.2
50°	728.9	747.3	795.8	844.3	852.7
52.5°	678.8	695.5	749.0	789.1	790.8
55°	625.3	645.3	698.8	730.6	727.3
57.5°	576.8	593.5	645.3	662.1	652.0
60°	525.0	540.0	591.8	593.5	578.5
62.5°	474.8	489.9	530.0	518.3	499.9
65°	424.7	439.7	468.1	446.4	429.7
67.5°	376.2	389.5	406.3	377.8	361.1
70°	324.3	342.7	344.4	311.0	294.3
72.5°	279.2	289.2	285.9	254.1	239.1
75°	229.0	240.8	225.7	195.6	183.9
77.5°	182.2	190.6	170.5	142.1	133.8
80°	135.4	140.4	117.0	95.3	90.3
82.5°	92.0	92.0	66.9	51.8	46.8
85°	53.5	46.8	28.4	25.1	25.1
87.5°	18.4	11.7	11.7	11.7	11.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)