

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: P258865

Luminaire Tested: **14CZ-LD5-44-S-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258865
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-L92765-W2A1-U-3500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3806.0 lumens
Efficiency: N/A
Efficacy: 106.6 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

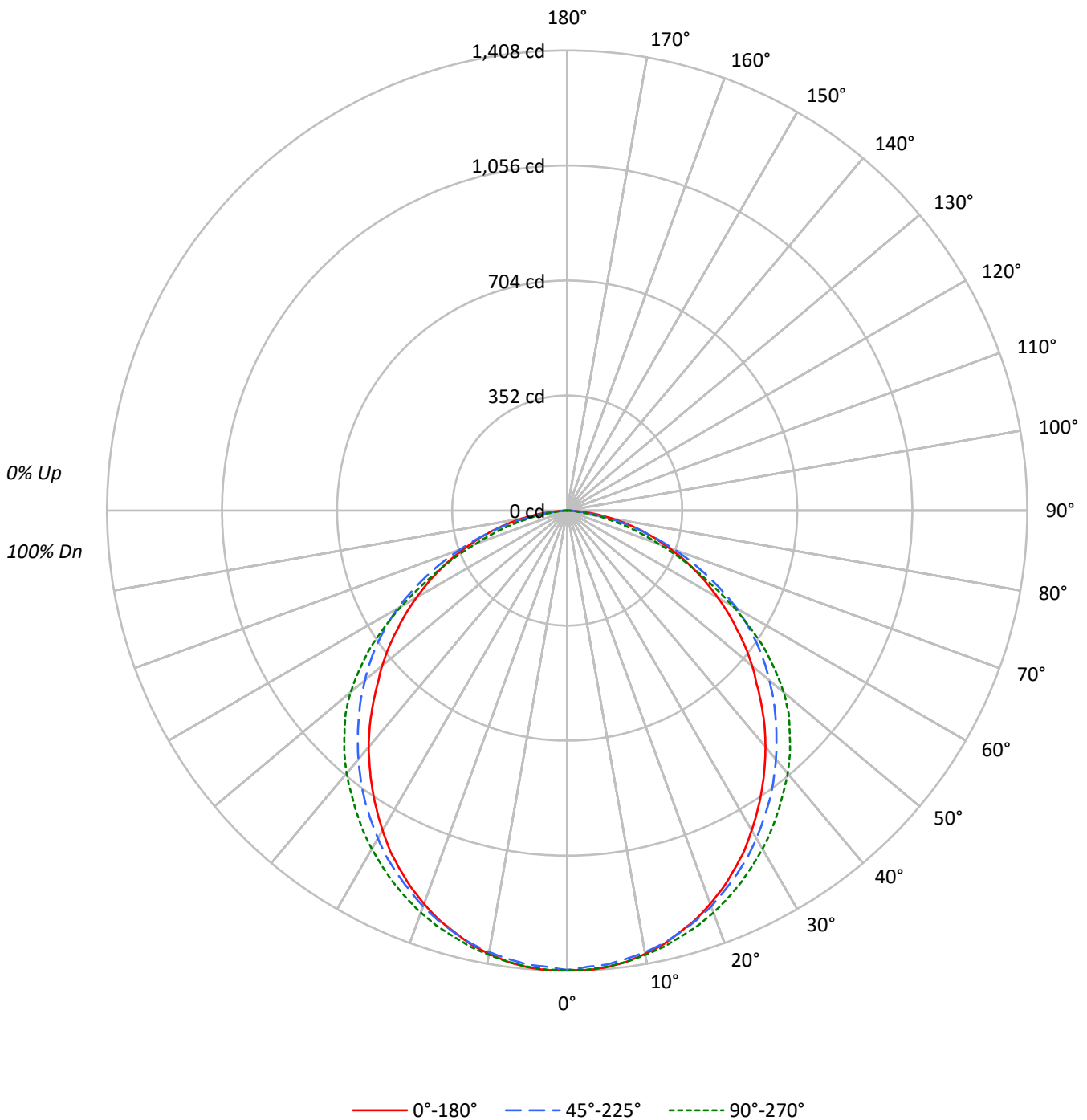
Input Watts (W): 35.712
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	89	87	85					85			
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71					71			
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60					60			
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51					51			
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44					44			
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39					39			
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34					34			
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31					31			
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28					28			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3783	3783	3783
5°	3789	3766	3784
10°	3763	3749	3772
15°	3718	3723	3756
20°	3667	3691	3749
25°	3595	3646	3731
30°	3510	3599	3715
35°	3415	3549	3694
40°	3318	3491	3688
45°	3201	3433	3666
50°	3095	3380	3621
55°	2976	3326	3461
60°	2866	3231	3158
65°	2743	3024	2776
70°	2589	2749	2349
75°	2415	2381	1940
80°	2129	1839	1420
85°	1677	889	784



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.8	3.5
10°-20°	378.5	9.9
20°-30°	568.0	14.9
30°-40°	677.1	17.8
40°-50°	697.5	18.3
50°-60°	621.6	16.3
60°-70°	447.9	11.8
70°-80°	234.2	6.2
80°-90°	48.5	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°	1079.3	28.4
0°-40°	1756.4	46.1
0°-60°	3075.4	80.8
0°-90°	3806.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3806.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1406	1406	1406	1406	1406	
5°	1402	1399	1394	1402	1401	133
15°	1335	1336	1336	1350	1348	377
25°	1211	1218	1228	1252	1257	558
35°	1040	1053	1080	1116	1124	650
45°	841	860	902	953	963	649
55°	634	655	709	741	738	569
65°	431	446	475	453	436	427
75°	232	244	229	198	187	246
85°	54	48	29	25	25	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1405.9	1405.9	1405.9	1405.9	1405.9
2.5°	1407.6	1404.2	1397.5	1405.9	1405.9
5°	1402.5	1399.2	1394.1	1402.5	1400.8
7.5°	1392.4	1389.0	1383.9	1394.1	1392.4
10°	1377.1	1375.4	1372.0	1382.2	1380.5
12.5°	1360.1	1358.5	1356.8	1366.9	1366.9
15°	1334.7	1336.4	1336.4	1350.0	1348.3
17.5°	1311.0	1312.7	1314.4	1331.3	1331.3
20°	1280.4	1282.1	1288.9	1307.6	1309.3
22.5°	1248.2	1249.9	1258.4	1280.4	1283.8
25°	1210.9	1217.7	1227.9	1251.6	1256.7
27.5°	1173.6	1178.7	1195.6	1222.8	1226.2
30°	1129.5	1139.7	1158.3	1188.9	1195.6
32.5°	1085.4	1097.3	1119.3	1153.2	1161.7
35°	1039.6	1053.2	1080.3	1115.9	1124.4
37.5°	992.1	1004.0	1037.9	1075.2	1087.1
40°	944.6	956.5	993.8	1036.2	1049.8
42.5°	893.8	910.7	948.0	995.5	1009.1
45°	841.2	859.8	902.2	953.1	963.3
47.5°	786.9	807.3	856.5	907.3	919.2
50°	739.4	758.1	807.3	856.5	864.9
52.5°	688.6	705.5	759.8	800.5	802.2
55°	634.3	654.6	708.9	741.1	737.7
57.5°	585.1	602.1	654.6	671.6	661.4
60°	532.5	547.8	600.4	602.1	586.8
62.5°	481.6	496.9	537.6	525.7	507.1
65°	430.8	446.0	474.9	452.8	435.9
67.5°	381.6	395.2	412.1	383.3	366.3
70°	329.0	347.7	349.4	315.4	298.5
72.5°	283.2	293.4	290.0	257.8	242.5
75°	232.3	244.2	229.0	198.4	186.6
77.5°	184.9	193.3	173.0	144.2	135.7
80°	137.4	142.5	118.7	96.7	91.6
82.5°	93.3	93.3	67.8	52.6	47.5
85°	54.3	47.5	28.8	25.4	25.4
87.5°	18.7	11.9	11.9	11.9	11.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)