

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: P275551

Luminaire Tested: **14CZ2-44-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275551  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-49)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ2-44-UNV-L92765-W2A1-U-4500K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3896.0 lumens  
Efficiency: N/A  
Efficacy: 107.4 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

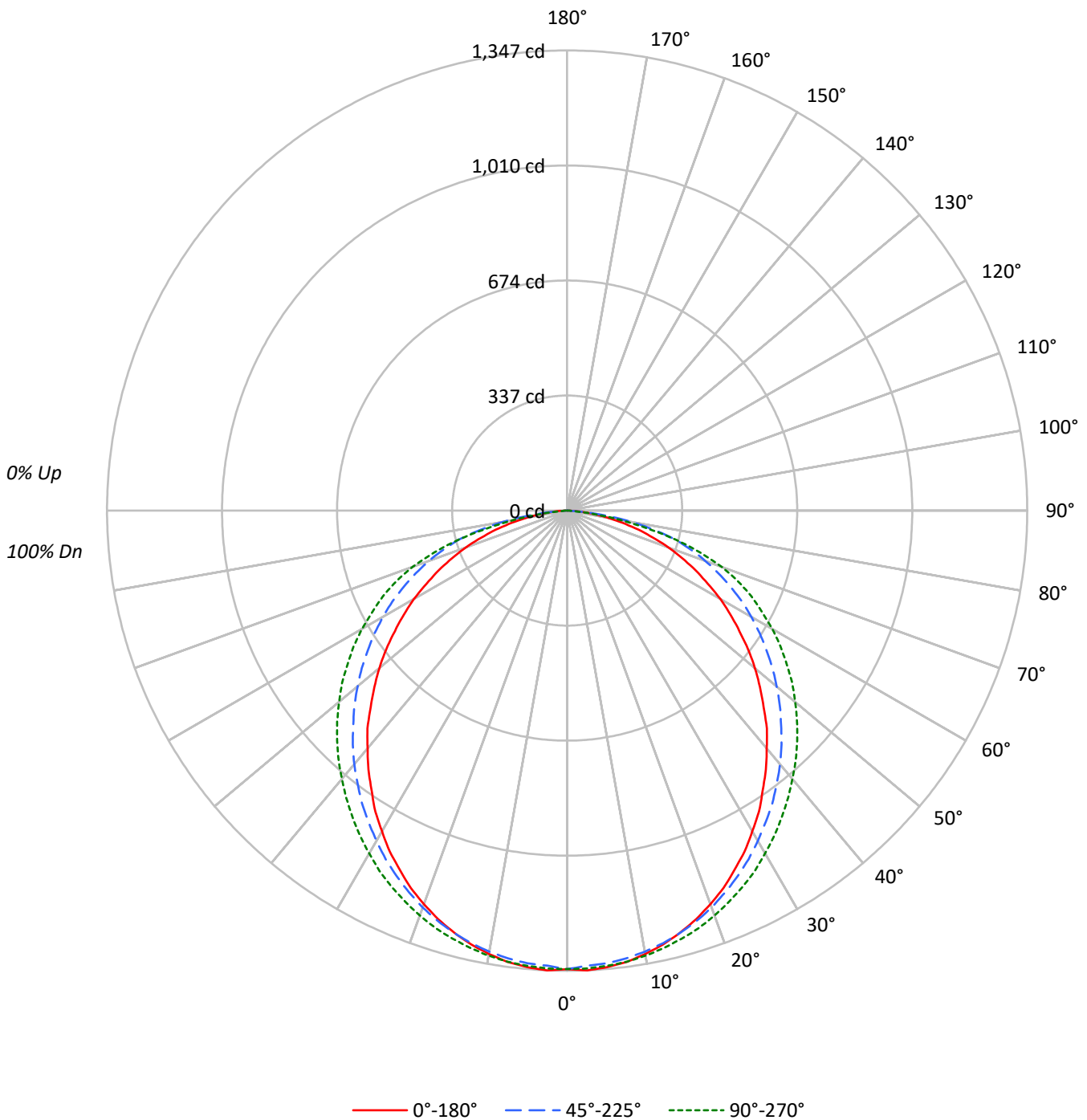
Input Watts (W): 36.27  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3612	3612	3612
5°	3623	3593	3614
10°	3601	3582	3615
15°	3563	3565	3613
20°	3510	3540	3612
25°	3444	3505	3609
30°	3369	3469	3601
35°	3279	3439	3599
40°	3192	3406	3604
45°	3094	3369	3623
50°	3004	3353	3648
55°	2890	3342	3681
60°	2787	3348	3731
65°	2644	3358	3789
70°	2481	3383	3787
75°	2249	3414	3423
80°	1844	2949	2436
85°	1368	1396	562



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.0	3.3
10°-20°	362.8	9.3
20°-30°	546.5	14.0
30°-40°	655.8	16.8
40°-50°	683.6	17.5
50°-60°	632.8	16.2
60°-70°	511.3	13.1
70°-80°	311.7	8.0
80°-90°	64.4	1.7
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°	1036.3	26.6
0°-40°	1692.2	43.4
0°-60°	3008.6	77.2
0°-90°	3896.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3896.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1342	1342	1342	1342	1342	
5°	1341	1338	1330	1340	1338	127
15°	1279	1280	1280	1297	1297	360
25°	1160	1167	1181	1210	1215	535
35°	998	1014	1047	1085	1096	625
45°	813	838	885	935	952	629
55°	616	648	712	768	784	552
65°	415	456	527	580	595	411
75°	216	264	328	334	329	227
85°	44	66	45	25	18	54
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1342.2	1342.2	1342.2	1342.2	1342.2
2.5°	1347.4	1343.1	1333.5	1343.1	1341.3
5°	1341.3	1337.8	1330.0	1339.6	1337.8
7.5°	1332.6	1329.2	1322.2	1333.5	1331.8
10°	1317.9	1316.1	1310.9	1323.9	1323.1
12.5°	1300.5	1299.6	1297.0	1311.8	1310.9
15°	1278.8	1279.6	1279.6	1297.0	1297.0
17.5°	1254.4	1256.2	1259.7	1278.8	1281.4
20°	1225.8	1229.3	1236.2	1257.9	1261.4
22.5°	1196.2	1198.8	1209.3	1235.3	1238.8
25°	1159.8	1166.7	1180.6	1210.1	1215.4
27.5°	1125.0	1131.1	1150.2	1180.6	1189.3
30°	1084.2	1093.7	1116.3	1149.3	1158.9
32.5°	1045.1	1055.5	1081.6	1119.8	1128.5
35°	998.2	1013.8	1046.8	1085.0	1095.5
37.5°	955.6	970.4	1007.7	1049.4	1061.6
40°	908.7	926.9	969.5	1013.8	1026.0
42.5°	865.3	882.6	928.7	973.8	990.3
45°	813.1	837.5	885.2	934.8	952.1
47.5°	765.3	789.7	844.4	897.4	913.0
50°	717.6	743.6	801.0	855.7	871.3
52.5°	668.1	695.9	757.5	812.3	830.5
55°	615.9	648.1	712.4	768.0	784.5
57.5°	566.4	599.4	668.1	724.5	741.0
60°	517.8	551.6	622.0	675.9	693.2
62.5°	463.9	503.9	576.8	629.8	642.9
65°	415.3	456.1	527.3	580.3	595.1
67.5°	364.0	408.3	479.5	528.2	542.1
70°	315.3	361.4	430.0	475.2	481.3
72.5°	263.2	310.1	379.6	408.3	408.3
75°	216.3	264.1	328.4	333.6	329.2
77.5°	165.1	218.1	259.7	249.3	238.9
80°	119.0	171.1	190.3	171.1	157.2
82.5°	79.9	124.2	114.7	91.2	80.8
85°	44.3	66.0	45.2	25.2	18.2
87.5°	16.5	14.8	4.3	4.3	4.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)