

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: P275830

Luminaire Tested: **14CZ2-44-RDP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275830  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-43)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ2-44-RDP-UNV-L82765-W2A1-U-3000K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2605.0 lumens  
Efficiency: N/A  
Efficacy: 73.7 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

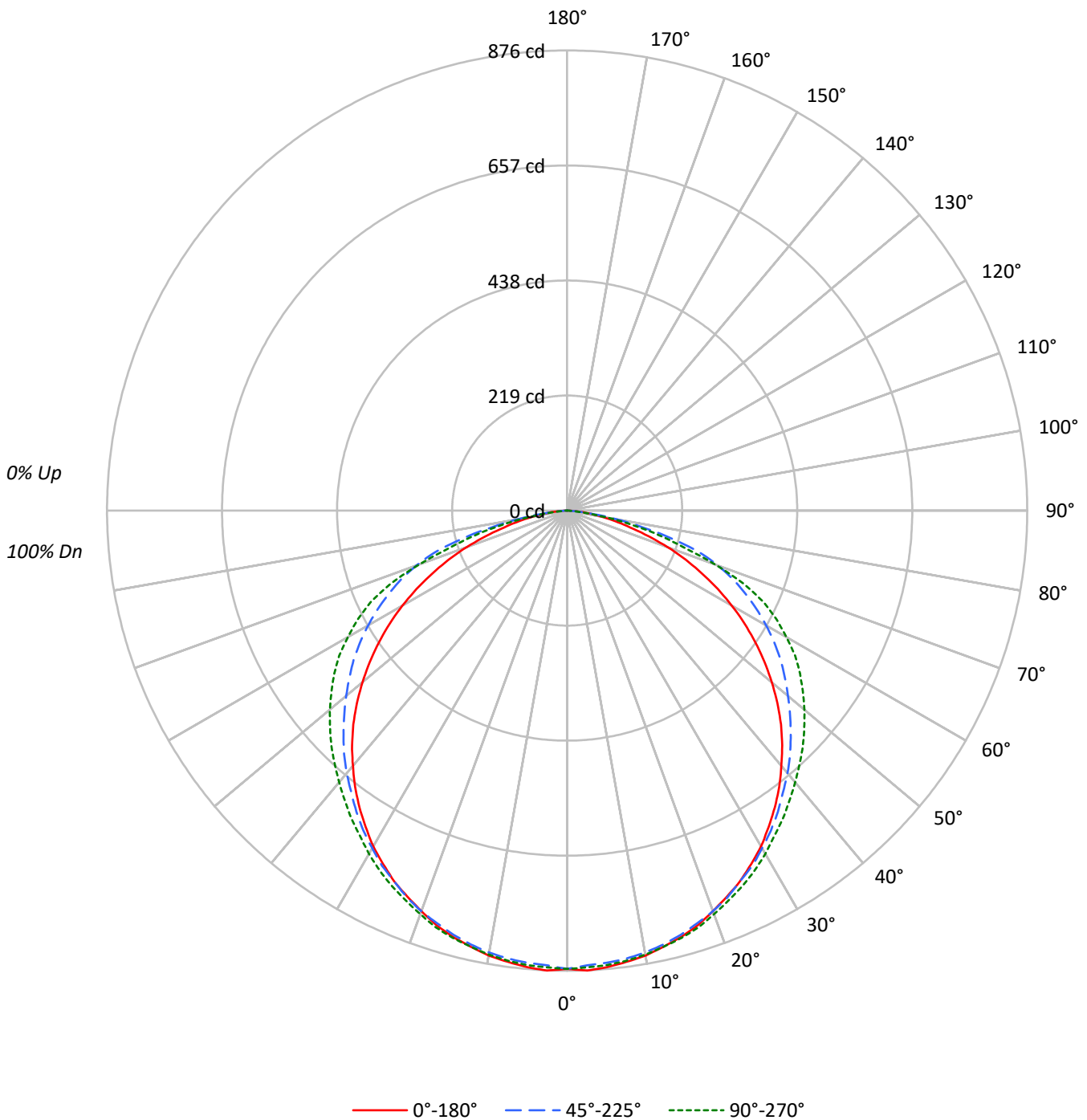
Input Watts (W): 35.34  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	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	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

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

	0°	45°	90°
0°	2348	2348	2348
5°	2357	2335	2346
10°	2351	2334	2345
15°	2340	2329	2346
20°	2324	2324	2341
25°	2313	2313	2343
30°	2294	2307	2344
35°	2265	2298	2352
40°	2229	2293	2372
45°	2191	2291	2415
50°	2128	2299	2469
55°	2052	2328	2538
60°	1948	2354	2594
65°	1800	2383	2629
70°	1600	2400	2353
75°	1290	2156	1882
80°	1009	1512	1229
85°	692	438	315



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.6	3.2
10°-20°	236.9	9.1
20°-30°	360.8	13.8
30°-40°	439.4	16.9
40°-50°	466.2	17.9
50°-60°	440.0	16.9
60°-70°	355.2	13.6
70°-80°	192.7	7.4
80°-90°	31.2	1.2
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°	680.3	26.1
0°-40°	1119.7	43.0
0°-60°	2025.9	77.8
0°-90°	2605.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2605.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	872	872	872	872	872	
5°	872	870	864	870	868	83
15°	840	838	836	842	842	237
25°	779	777	779	787	789	359
35°	689	694	700	714	716	431
45°	576	584	602	624	634	443
55°	437	456	496	529	541	391
65°	283	317	374	405	413	280
75°	124	181	207	187	181	136
85°	22	24	14	12	10	29
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	872.5	872.5	872.5	872.5	872.5
2.5°	876.5	872.5	866.4	872.5	870.4
5°	872.5	870.4	864.3	870.4	868.4
7.5°	866.4	866.4	860.3	864.3	864.3
10°	860.3	858.2	854.2	860.3	858.2
12.5°	850.1	848.1	846.0	852.1	850.1
15°	839.9	837.9	835.9	842.0	842.0
17.5°	827.7	825.7	823.7	831.8	831.8
20°	811.5	811.5	811.5	819.6	817.6
22.5°	795.2	795.2	797.2	805.4	803.3
25°	778.9	776.9	778.9	787.1	789.1
27.5°	758.6	760.6	762.7	770.8	772.8
30°	738.3	740.3	742.3	752.5	754.5
32.5°	713.8	717.9	722.0	734.2	734.2
35°	689.4	693.5	699.6	713.8	715.9
37.5°	663.0	667.1	675.2	691.5	695.5
40°	634.5	640.6	652.8	669.1	675.2
42.5°	606.1	614.2	628.4	646.7	654.9
45°	575.6	583.7	602.0	624.4	634.5
47.5°	543.0	553.2	575.6	604.0	612.2
50°	508.4	522.7	549.1	579.6	589.8
52.5°	473.9	490.1	522.7	555.2	565.4
55°	437.3	455.6	496.2	528.8	541.0
57.5°	400.6	421.0	467.8	502.3	514.5
60°	362.0	386.4	437.3	471.8	482.0
62.5°	323.4	351.8	406.8	441.3	449.5
65°	282.7	317.3	374.2	404.7	412.9
67.5°	244.1	284.7	341.7	364.0	364.0
70°	203.4	248.1	305.1	311.2	299.0
72.5°	162.7	213.5	264.4	242.0	231.8
75°	124.1	181.0	207.4	187.1	181.0
77.5°	93.6	146.4	146.4	134.2	130.2
80°	65.1	111.9	97.6	85.4	79.3
82.5°	42.7	63.0	50.8	40.7	34.6
85°	22.4	24.4	14.2	12.2	10.2
87.5°	8.1	4.1	2.0	4.1	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)