

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: P275870

Luminaire Tested: **14CZ2-35-RDP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275870  
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: 14CZ2-35-RDP-UNV-L92765-W2A1-U-5000K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2068.0 lumens  
Efficiency: N/A  
Efficacy: 73.6 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

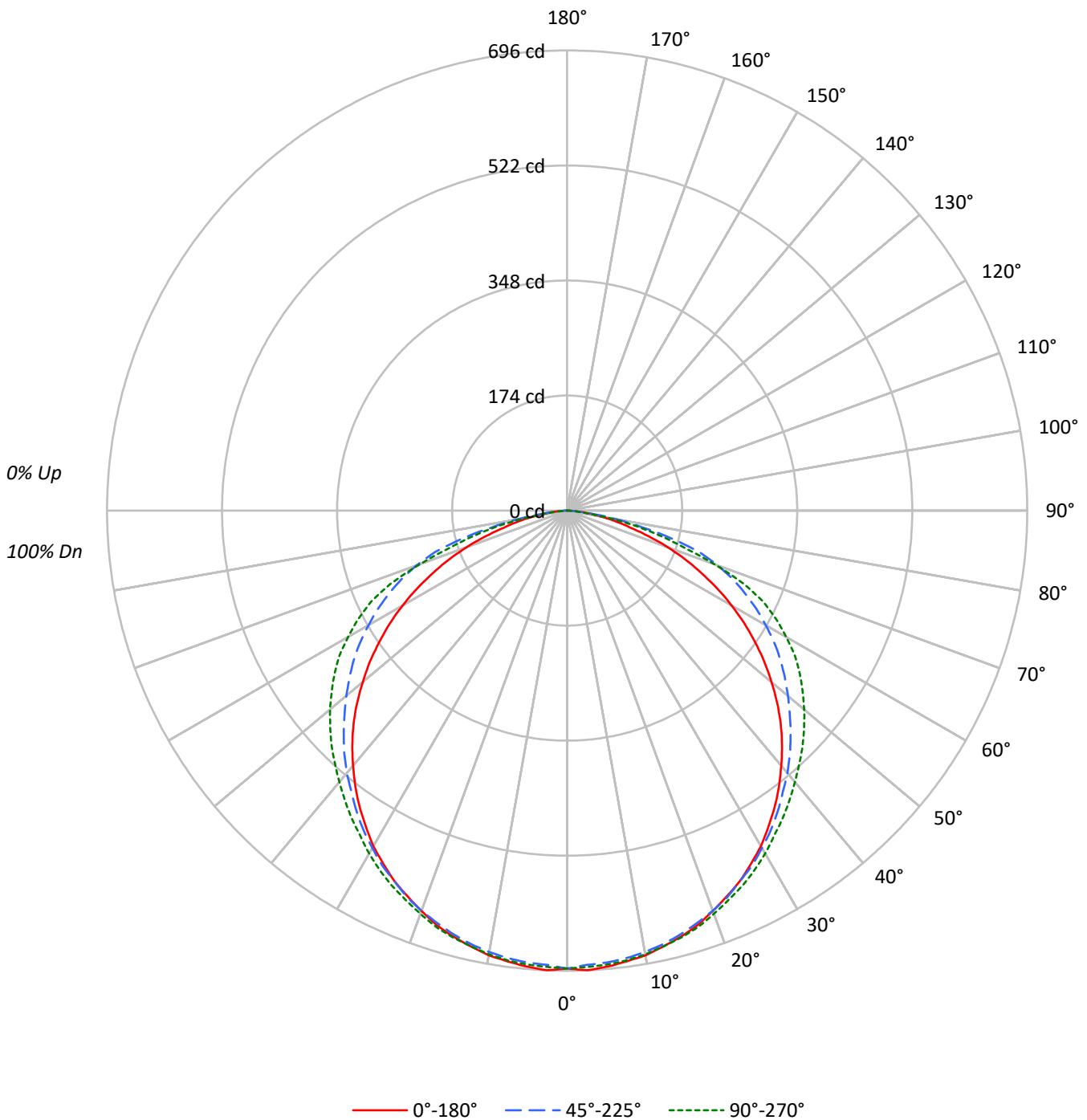
Input Watts (W): 28.086  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1864	1864	1864
5°	1871	1854	1862
10°	1866	1853	1862
15°	1858	1849	1862
20°	1845	1845	1859
25°	1836	1836	1860
30°	1821	1831	1861
35°	1798	1825	1867
40°	1769	1821	1883
45°	1739	1819	1917
50°	1690	1825	1960
55°	1628	1848	2015
60°	1547	1868	2059
65°	1429	1892	2087
70°	1271	1906	1867
75°	1024	1712	1494
80°	801	1201	976
85°	550	349	250



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.6	3.2
10°-20°	188.1	9.1
20°-30°	286.4	13.8
30°-40°	348.8	16.9
40°-50°	370.1	17.9
50°-60°	349.3	16.9
60°-70°	282.0	13.6
70°-80°	153.0	7.4
80°-90°	24.8	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°	540.0	26.1
0°-40°	888.9	43.0
0°-60°	1608.2	77.8
0°-90°	2068.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2068.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	693	693	693	693	693	
5°	693	691	686	691	689	66
15°	667	665	664	668	668	188
25°	618	617	618	625	626	285
35°	547	550	555	567	568	342
45°	457	463	478	496	504	352
55°	347	362	394	420	430	310
65°	224	252	297	321	328	222
75°	98	144	165	148	144	108
85°	18	19	11	10	8	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	692.6	692.6	692.6	692.6	692.6
2.5°	695.9	692.6	687.8	692.6	691.0
5°	692.6	691.0	686.2	691.0	689.4
7.5°	687.8	687.8	682.9	686.2	686.2
10°	682.9	681.3	678.1	682.9	681.3
12.5°	674.9	673.3	671.6	676.5	674.9
15°	666.8	665.2	663.6	668.4	668.4
17.5°	657.1	655.5	653.9	660.3	660.3
20°	644.2	644.2	644.2	650.6	649.0
22.5°	631.3	631.3	632.9	639.3	637.7
25°	618.4	616.7	618.4	624.8	626.4
27.5°	602.2	603.8	605.4	611.9	613.5
30°	586.1	587.7	589.3	597.4	599.0
32.5°	566.7	569.9	573.2	582.8	582.8
35°	547.3	550.5	555.4	566.7	568.3
37.5°	526.3	529.6	536.0	548.9	552.2
40°	503.7	508.6	518.3	531.2	536.0
42.5°	481.1	487.6	498.9	513.4	519.9
45°	456.9	463.4	477.9	495.7	503.7
47.5°	431.1	439.1	456.9	479.5	486.0
50°	403.6	414.9	435.9	460.1	468.2
52.5°	376.2	389.1	414.9	440.8	448.8
55°	347.1	361.7	393.9	419.8	429.5
57.5°	318.1	334.2	371.3	398.8	408.5
60°	287.4	306.8	347.1	374.6	382.6
62.5°	256.7	279.3	322.9	350.3	356.8
65°	224.4	251.9	297.1	321.3	327.7
67.5°	193.7	226.0	271.2	289.0	289.0
70°	161.5	197.0	242.2	247.0	237.3
72.5°	129.2	169.5	209.9	192.1	184.1
75°	98.5	143.7	164.7	148.5	143.7
77.5°	74.3	116.2	116.2	106.6	103.3
80°	51.7	88.8	77.5	67.8	63.0
82.5°	33.9	50.0	40.4	32.3	27.4
85°	17.8	19.4	11.3	9.7	8.1
87.5°	6.5	3.2	1.6	3.2	1.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)