

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: P275873

Luminaire Tested: **14CZ2-35-RDP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275873  
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-6500K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2123.0 lumens  
Efficiency: N/A  
Efficacy: 73.9 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

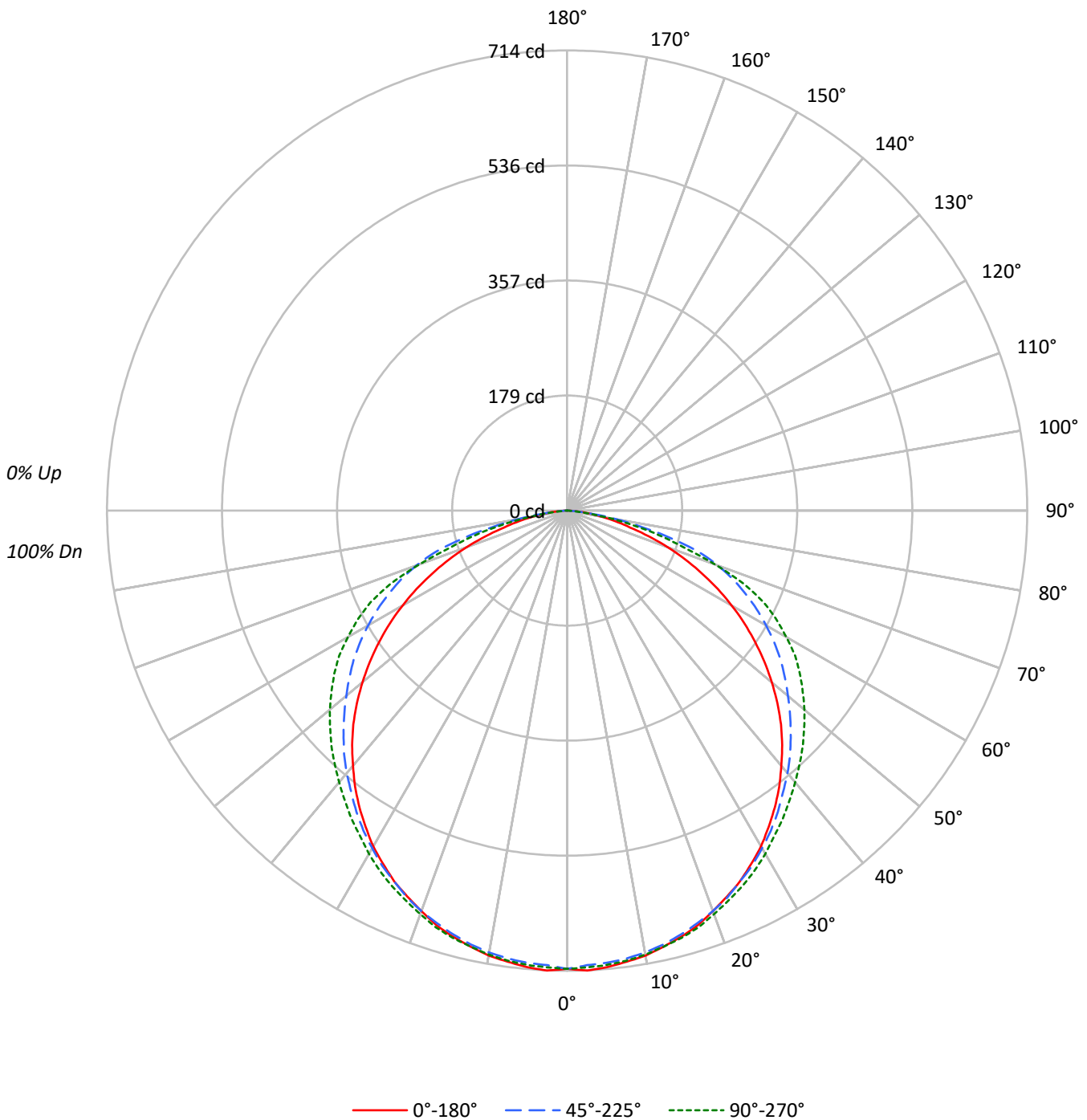
Input Watts (W): 28.737  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1913	1913	1913
5°	1921	1903	1912
10°	1916	1902	1911
15°	1907	1898	1912
20°	1894	1894	1908
25°	1885	1885	1909
30°	1870	1880	1911
35°	1846	1873	1917
40°	1816	1869	1933
45°	1785	1867	1968
50°	1735	1873	2012
55°	1672	1897	2069
60°	1588	1918	2114
65°	1467	1942	2143
70°	1304	1956	1917
75°	1051	1758	1534
80°	821	1234	1001
85°	562	358	256



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.3	3.2
10°-20°	193.1	9.1
20°-30°	294.0	13.8
30°-40°	358.1	16.9
40°-50°	379.9	17.9
50°-60°	358.6	16.9
60°-70°	289.5	13.6
70°-80°	157.0	7.4
80°-90°	25.4	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°	554.4	26.1
0°-40°	912.5	43.0
0°-60°	1651.0	77.8
0°-90°	2123.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2123.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	711	711	711	711	711	
5°	711	709	704	709	708	68
15°	684	683	681	686	686	193
25°	635	633	635	641	643	292
35°	562	565	570	582	583	351
45°	469	476	491	509	517	361
55°	356	371	404	431	441	318
65°	230	259	305	330	336	228
75°	101	148	169	152	148	110
85°	18	20	12	10	8	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	711.0	711.0	711.0	711.0	711.0
2.5°	714.4	711.0	706.1	711.0	709.4
5°	711.0	709.4	704.4	709.4	707.7
7.5°	706.1	706.1	701.1	704.4	704.4
10°	701.1	699.4	696.1	701.1	699.4
12.5°	692.8	691.2	689.5	694.5	692.8
15°	684.5	682.9	681.2	686.2	686.2
17.5°	674.6	672.9	671.3	677.9	677.9
20°	661.3	661.3	661.3	668.0	666.3
22.5°	648.1	648.1	649.7	656.4	654.7
25°	634.8	633.1	634.8	641.4	643.1
27.5°	618.2	619.9	621.5	628.2	629.8
30°	601.7	603.3	605.0	613.3	614.9
32.5°	581.8	585.1	588.4	598.3	598.3
35°	561.9	565.2	570.2	581.8	583.4
37.5°	540.3	543.6	550.3	563.5	566.8
40°	517.1	522.1	532.0	545.3	550.3
42.5°	493.9	500.6	512.2	527.1	533.7
45°	469.1	475.7	490.6	508.8	517.1
47.5°	442.5	450.8	469.1	492.3	498.9
50°	414.4	426.0	447.5	472.4	480.7
52.5°	386.2	399.4	426.0	452.5	460.8
55°	356.4	371.3	404.4	430.9	440.9
57.5°	326.5	343.1	381.2	409.4	419.3
60°	295.0	314.9	356.4	384.5	392.8
62.5°	263.5	286.7	331.5	359.7	366.3
65°	230.4	258.6	305.0	329.8	336.5
67.5°	198.9	232.0	278.5	296.7	296.7
70°	165.7	202.2	248.6	253.6	243.6
72.5°	132.6	174.0	215.5	197.2	188.9
75°	101.1	147.5	169.1	152.5	147.5
77.5°	76.2	119.3	119.3	109.4	106.1
80°	53.0	91.2	79.6	69.6	64.6
82.5°	34.8	51.4	41.4	33.1	28.2
85°	18.2	19.9	11.6	9.9	8.3
87.5°	6.6	3.3	1.7	3.3	1.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)