

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: P258922

Luminaire Tested: **14CZ-LD5-39-RDP-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258922  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35909)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ-LD5-39-RDP-UNV-L93050-W2A1-U-3000K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2035.0 lumens  
Efficiency: N/A  
Efficacy: 64.2 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

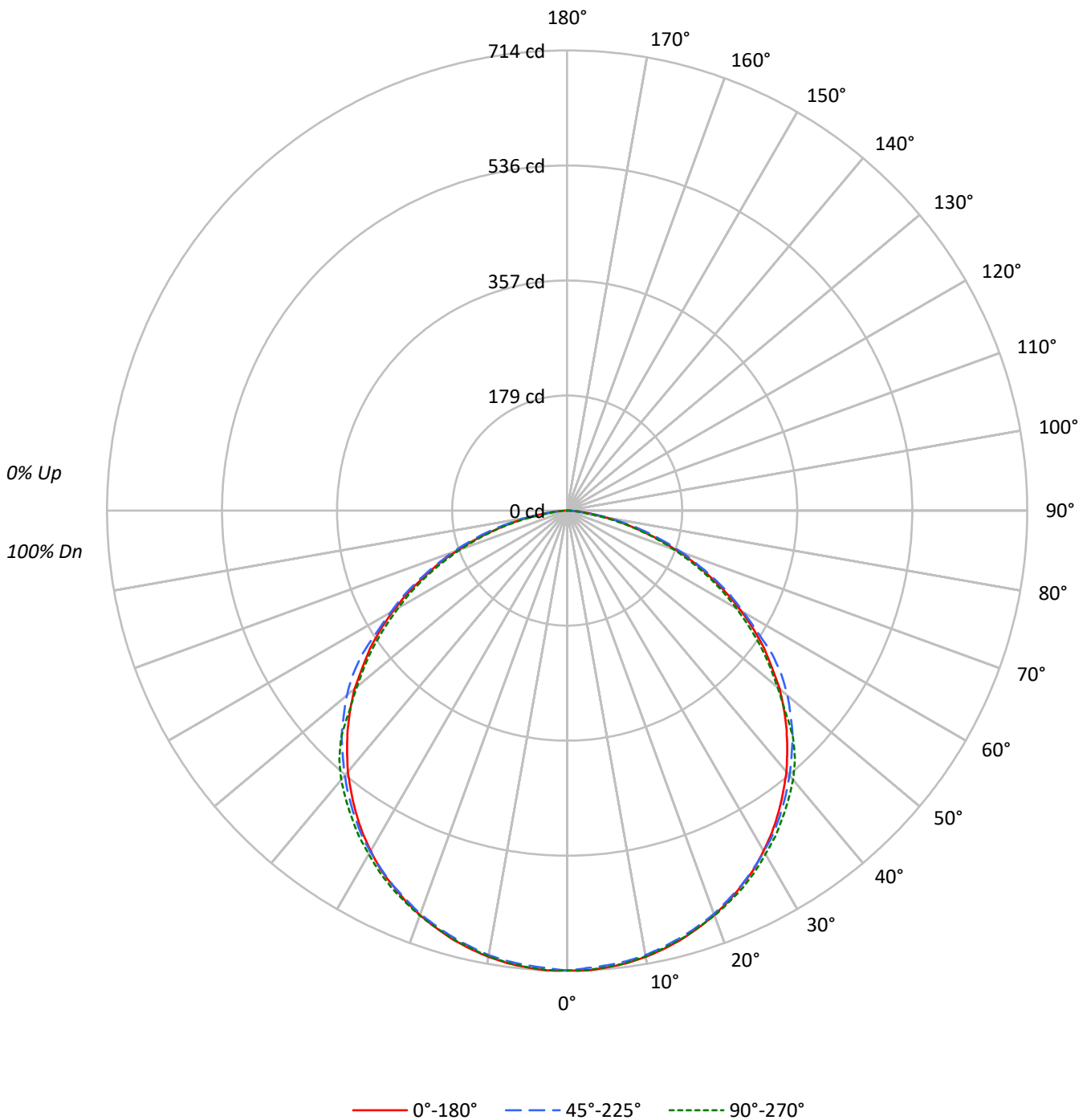
Input Watts (W): 31.713  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	47	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	61	47	38	33	59	46	38	33	45	38	32	44	37	32	43	36	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24

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

	0°	45°	90°
0°	1921	1921	1921
5°	1922	1914	1921
10°	1921	1914	1919
15°	1918	1909	1916
20°	1913	1907	1915
25°	1904	1902	1916
30°	1894	1898	1913
35°	1878	1894	1913
40°	1859	1885	1915
45°	1832	1883	1886
50°	1802	1869	1783
55°	1752	1820	1718
60°	1678	1703	1628
65°	1571	1613	1529
70°	1430	1487	1383
75°	1193	1304	1173
80°	945	996	812
85°	614	531	472



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.6	3.3
10°-20°	194.1	9.5
20°-30°	296.2	14.6
30°-40°	361.2	17.7
40°-50°	378.2	18.6
50°-60°	336.4	16.5
60°-70°	248.2	12.2
70°-80°	128.3	6.3
80°-90°	24.9	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°	557.8	27.4
0°-40°	919.0	45.2
0°-60°	1633.6	80.3
0°-90°	2035.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2035.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	714	714	714	714	714	
5°	712	711	708	711	711	68
15°	688	688	685	688	688	194
25°	641	641	641	645	645	296
35°	572	572	576	583	582	358
45°	482	485	495	499	496	371
55°	373	381	388	371	366	333
65°	247	264	253	245	240	245
75°	115	127	125	115	113	124
85°	20	22	17	16	15	26
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	713.7	713.7	713.7	713.7	713.7
2.5°	714.3	713.7	710.4	713.7	713.7
5°	711.7	711.0	708.4	711.0	711.0
7.5°	708.4	707.7	705.1	707.7	707.7
10°	703.1	702.4	700.4	703.1	702.4
12.5°	696.4	696.4	693.1	696.4	695.1
15°	688.5	687.8	685.2	687.8	687.8
17.5°	678.5	677.9	675.9	679.2	677.9
20°	667.9	667.3	665.9	669.2	668.6
22.5°	655.3	655.3	653.3	657.3	657.3
25°	641.4	641.4	640.7	645.4	645.4
27.5°	627.5	626.1	626.1	630.8	631.4
30°	609.5	609.5	610.9	616.2	615.5
32.5°	591.6	592.3	595.0	599.6	600.3
35°	571.7	572.4	576.4	583.0	582.4
37.5°	550.5	552.5	557.1	564.4	564.4
40°	529.3	530.6	536.6	544.5	545.2
42.5°	505.4	508.7	515.4	524.6	523.3
45°	481.5	484.9	494.8	499.4	495.5
47.5°	456.3	460.3	470.3	470.9	457.7
50°	430.5	435.1	446.4	433.1	425.8
52.5°	400.6	409.2	419.2	400.6	396.0
55°	373.4	381.4	388.0	371.4	366.1
57.5°	342.9	353.5	348.9	340.9	334.3
60°	311.7	323.0	316.4	308.4	302.5
62.5°	279.9	292.5	285.9	277.9	272.6
65°	246.7	264.0	253.4	244.7	240.1
67.5°	215.6	232.1	219.5	212.9	208.3
70°	181.7	195.7	189.0	180.4	175.8
72.5°	148.6	159.2	157.2	147.9	144.6
75°	114.7	126.7	125.4	115.4	112.8
77.5°	86.2	97.5	93.5	85.6	82.2
80°	61.0	68.3	64.3	55.1	52.4
82.5°	37.1	43.1	36.5	31.2	28.5
85°	19.9	21.9	17.2	15.9	15.3
87.5°	7.3	7.3	7.3	6.6	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)