

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: P275775

Luminaire Tested: **14CZ2-39-RDP-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275775  
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: 14CZ2-39-RDP-UNV-L93050-W2A1-U-3500K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2098.0 lumens  
Efficiency: N/A  
Efficacy: 66.5 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

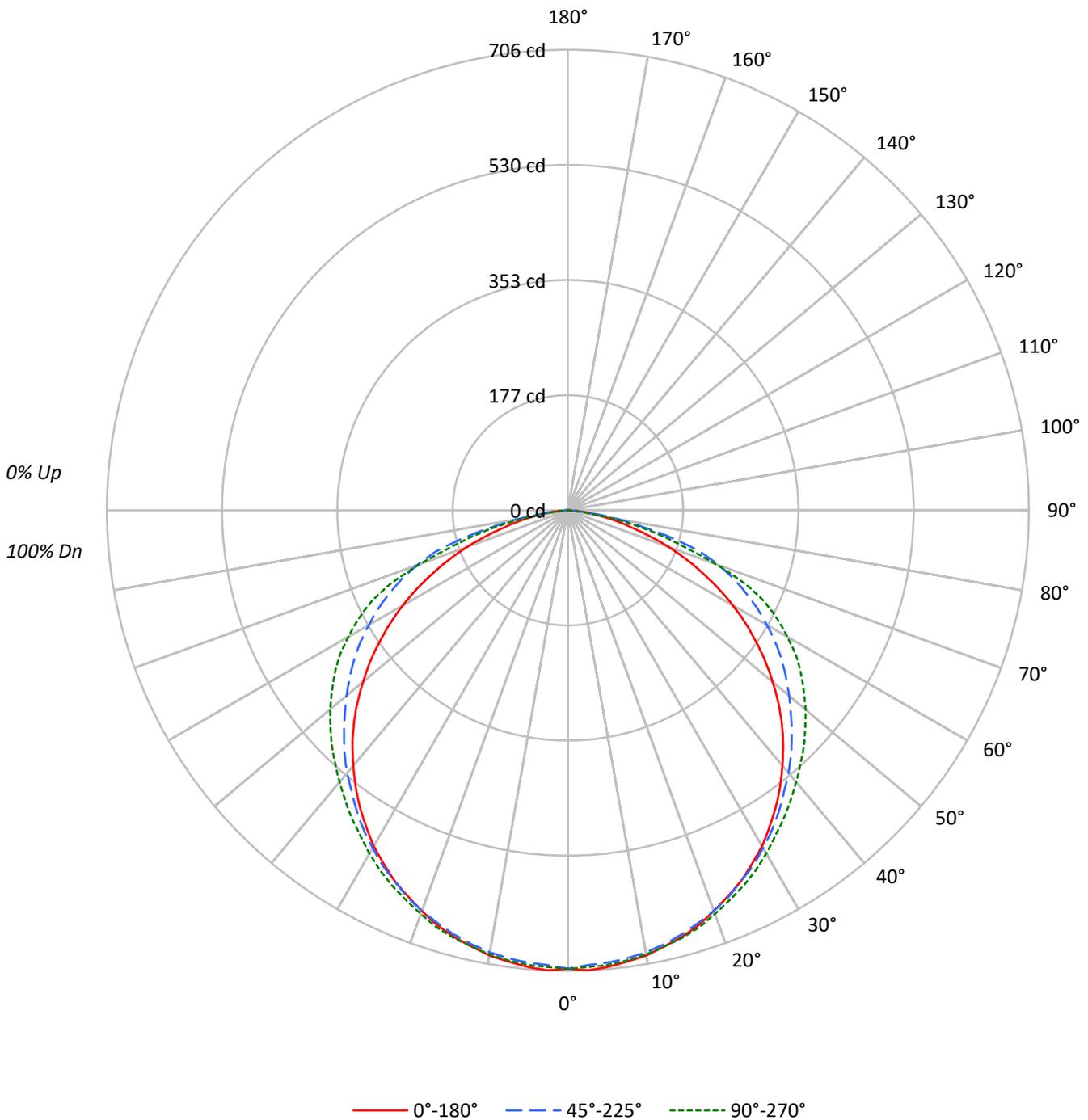
Input Watts (W): 31.527  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1891	1891	1891
5°	1898	1880	1889
10°	1893	1880	1889
15°	1885	1875	1889
20°	1871	1871	1885
25°	1863	1863	1887
30°	1848	1858	1888
35°	1824	1851	1894
40°	1795	1847	1910
45°	1764	1845	1945
50°	1714	1851	1989
55°	1652	1875	2044
60°	1569	1896	2089
65°	1450	1919	2117
70°	1289	1933	1895
75°	1039	1737	1516
80°	812	1218	990
85°	556	355	253



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.5	3.2
10°-20°	190.8	9.1
20°-30°	290.5	13.8
30°-40°	353.9	16.9
40°-50°	375.4	17.9
50°-60°	354.4	16.9
60°-70°	286.1	13.6
70°-80°	155.2	7.4
80°-90°	25.1	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°	547.9	26.1
0°-40°	901.8	43.0
0°-60°	1631.6	77.8
0°-90°	2098.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2098.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	703	703	703	703	703	
5°	703	701	696	701	699	67
15°	676	675	673	678	678	191
25°	627	626	627	634	636	289
35°	555	558	563	575	577	347
45°	464	470	485	503	511	357
55°	352	367	400	426	436	315
65°	228	256	301	326	332	226
75°	100	146	167	151	146	109
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°	702.7	702.7	702.7	702.7	702.7
2.5°	705.9	702.7	697.8	702.7	701.0
5°	702.7	701.0	696.1	701.0	699.4
7.5°	697.8	697.8	692.8	696.1	696.1
10°	692.8	691.2	687.9	692.8	691.2
12.5°	684.7	683.0	681.4	686.3	684.7
15°	676.5	674.8	673.2	678.1	678.1
17.5°	666.6	665.0	663.4	669.9	669.9
20°	653.5	653.5	653.5	660.1	658.4
22.5°	640.4	640.4	642.1	648.6	647.0
25°	627.3	625.7	627.3	633.9	635.5
27.5°	610.9	612.6	614.2	620.8	622.4
30°	594.6	596.2	597.8	606.0	607.7
32.5°	574.9	578.2	581.5	591.3	591.3
35°	555.3	558.5	563.4	574.9	576.6
37.5°	534.0	537.2	543.8	556.9	560.2
40°	511.0	515.9	525.8	538.9	543.8
42.5°	488.1	494.7	506.1	520.9	527.4
45°	463.5	470.1	484.8	502.8	511.0
47.5°	437.3	445.5	463.5	486.5	493.0
50°	409.5	420.9	442.2	466.8	475.0
52.5°	381.6	394.7	420.9	447.2	455.3
55°	352.2	366.9	399.7	425.9	435.7
57.5°	322.7	339.1	376.7	404.6	414.4
60°	291.6	311.2	352.2	380.0	388.2
62.5°	260.4	283.4	327.6	355.4	362.0
65°	227.7	255.5	301.4	325.9	332.5
67.5°	196.6	229.3	275.2	293.2	293.2
70°	163.8	199.8	245.7	250.6	240.8
72.5°	131.0	172.0	212.9	194.9	186.7
75°	99.9	145.8	167.1	150.7	145.8
77.5°	75.3	117.9	117.9	108.1	104.8
80°	52.4	90.1	78.6	68.8	63.9
82.5°	34.4	50.8	40.9	32.8	27.8
85°	18.0	19.7	11.5	9.8	8.2
87.5°	6.6	3.3	1.6	3.3	1.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)