

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: P275874

Luminaire Tested: **14CZ2-39-RDP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275874  
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-L92765-W2A1-U-2700K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1934.0 lumens  
Efficiency: N/A  
Efficacy: 62.6 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

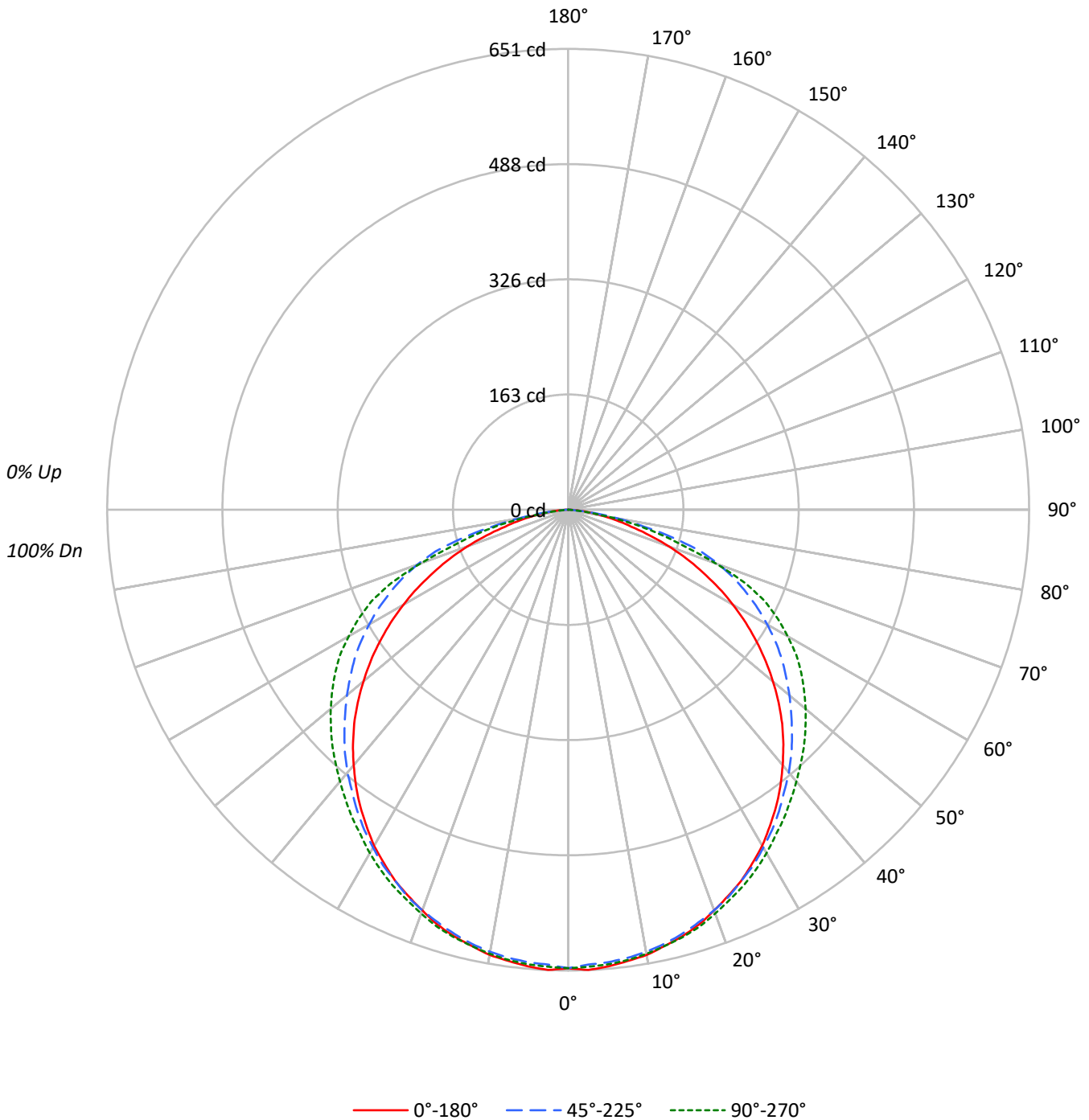
Input Watts (W): 30.876  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84					84			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32					32			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29					29			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23					23			

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

	0°	45°	90°
0°	1743	1743	1743
5°	1750	1733	1742
10°	1745	1733	1741
15°	1737	1729	1741
20°	1725	1725	1738
25°	1717	1717	1739
30°	1703	1712	1741
35°	1682	1706	1746
40°	1655	1703	1761
45°	1626	1701	1793
50°	1580	1707	1833
55°	1523	1728	1884
60°	1447	1747	1926
65°	1337	1769	1952
70°	1188	1782	1747
75°	958	1601	1397
80°	748	1124	913
85°	513	327	232



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.3	3.2
10°-20°	175.9	9.1
20°-30°	267.8	13.8
30°-40°	326.2	16.9
40°-50°	346.1	17.9
50°-60°	326.6	16.9
60°-70°	263.7	13.6
70°-80°	143.1	7.4
80°-90°	23.1	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°	505.0	26.1
0°-40°	831.3	43.0
0°-60°	1504.0	77.8
0°-90°	1934.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1934.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	648	648	648	648	648	
5°	648	646	642	646	645	62
15°	624	622	621	625	625	176
25°	578	577	578	584	586	266
35°	512	515	519	530	532	320
45°	427	433	447	464	471	329
55°	325	338	368	393	402	290
65°	210	236	278	300	306	208
75°	92	134	154	139	134	101
85°	17	18	11	9	8	21
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	647.7	647.7	647.7	647.7	647.7
2.5°	650.8	647.7	643.2	647.7	646.2
5°	647.7	646.2	641.7	646.2	644.7
7.5°	643.2	643.2	638.7	641.7	641.7
10°	638.7	637.2	634.2	638.7	637.2
12.5°	631.1	629.6	628.1	632.6	631.1
15°	623.6	622.1	620.6	625.1	625.1
17.5°	614.5	613.0	611.5	617.5	617.5
20°	602.4	602.4	602.4	608.5	607.0
22.5°	590.4	590.4	591.9	597.9	596.4
25°	578.3	576.8	578.3	584.3	585.8
27.5°	563.2	564.7	566.2	572.3	573.8
30°	548.1	549.6	551.1	558.7	560.2
32.5°	530.0	533.0	536.0	545.1	545.1
35°	511.9	514.9	519.4	530.0	531.5
37.5°	492.2	495.2	501.3	513.4	516.4
40°	471.1	475.6	484.7	496.8	501.3
42.5°	449.9	456.0	466.6	480.1	486.2
45°	427.3	433.3	446.9	463.5	471.1
47.5°	403.1	410.7	427.3	448.4	454.5
50°	377.5	388.0	407.7	430.3	437.9
52.5°	351.8	363.9	388.0	412.2	419.8
55°	324.6	338.2	368.4	392.6	401.6
57.5°	297.4	312.5	347.3	372.9	382.0
60°	268.8	286.9	324.6	350.3	357.8
62.5°	240.1	261.2	302.0	327.6	333.7
65°	209.9	235.5	277.8	300.5	306.5
67.5°	181.2	211.4	253.7	270.3	270.3
70°	151.0	184.2	226.5	231.0	222.0
72.5°	120.8	158.5	196.3	179.7	172.1
75°	92.1	134.4	154.0	138.9	134.4
77.5°	69.5	108.7	108.7	99.7	96.6
80°	48.3	83.0	72.5	63.4	58.9
82.5°	31.7	46.8	37.7	30.2	25.7
85°	16.6	18.1	10.6	9.1	7.5
87.5°	6.0	3.0	1.5	3.0	1.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)