

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: P275867

Luminaire Tested: **14CZ2-35-RDP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275867  
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-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: 1914.0 lumens  
Efficiency: N/A  
Efficacy: 69.5 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

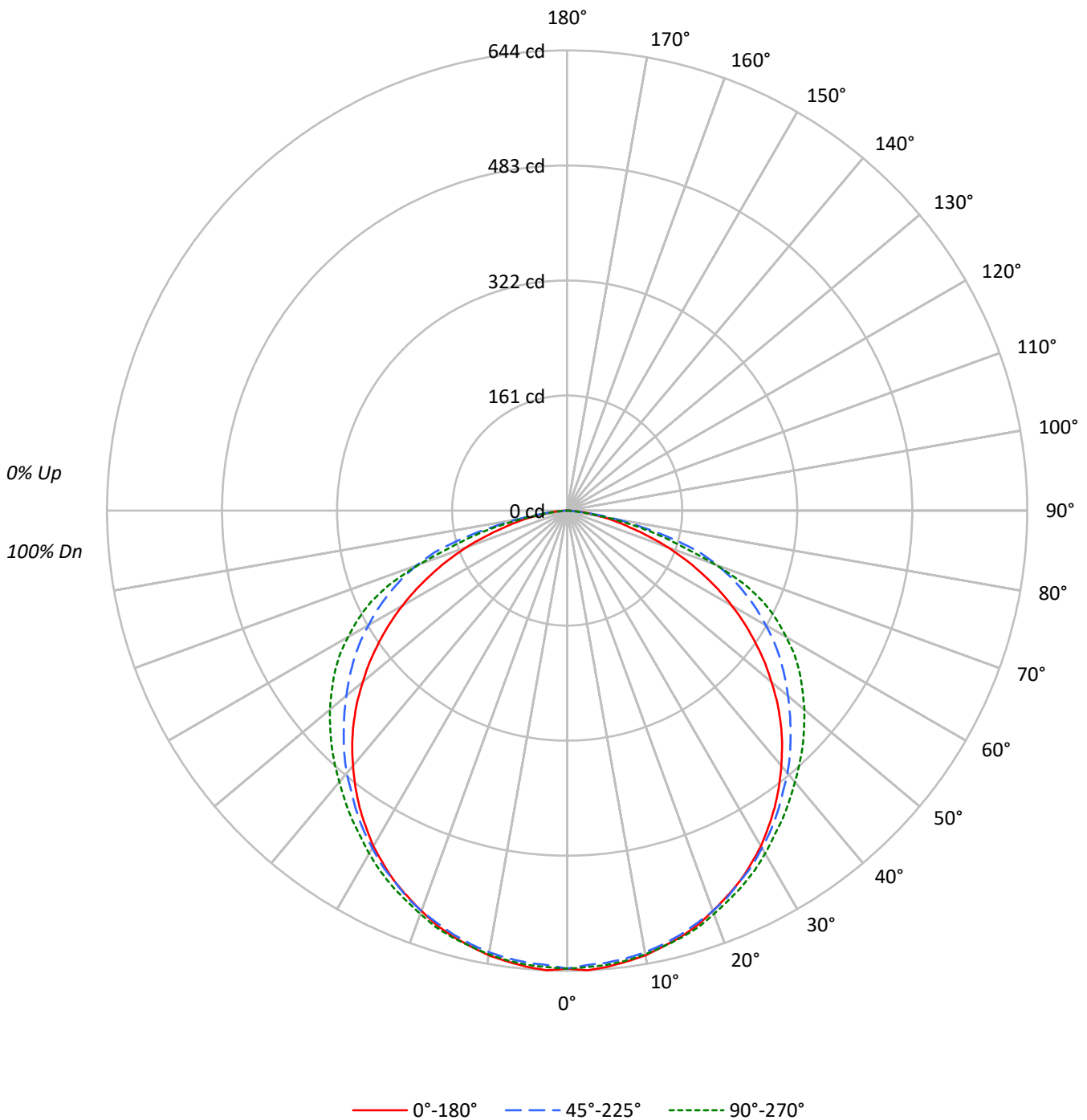
Input Watts (W): 27.528  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1725	1725	1725
5°	1732	1716	1724
10°	1727	1715	1723
15°	1719	1711	1723
20°	1707	1707	1720
25°	1699	1699	1722
30°	1685	1695	1723
35°	1664	1689	1728
40°	1638	1685	1743
45°	1609	1683	1774
50°	1564	1689	1814
55°	1507	1711	1865
60°	1432	1729	1906
65°	1323	1750	1931
70°	1175	1763	1729
75°	948	1585	1383
80°	741	1111	903
85°	506	324	232



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.7	3.2
10°-20°	174.1	9.1
20°-30°	265.1	13.8
30°-40°	322.9	16.9
40°-50°	342.5	17.9
50°-60°	323.3	16.9
60°-70°	261.0	13.6
70°-80°	141.6	7.4
80°-90°	22.9	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°	499.8	26.1
0°-40°	822.7	43.0
0°-60°	1488.5	77.8
0°-90°	1914.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1914.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	641	641	641	641	641	
5°	641	640	635	640	638	61
15°	617	616	614	619	619	174
25°	572	571	572	578	580	263
35°	507	510	514	524	526	317
45°	423	429	442	459	466	326
55°	321	335	365	388	398	287
65°	208	233	275	297	303	206
75°	91	133	152	138	133	100
85°	16	18	10	9	8	21
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	641.0	641.0	641.0	641.0	641.0
2.5°	644.0	641.0	636.6	641.0	639.6
5°	641.0	639.6	635.1	639.6	638.1
7.5°	636.6	636.6	632.1	635.1	635.1
10°	632.1	630.6	627.6	632.1	630.6
12.5°	624.6	623.1	621.6	626.1	624.6
15°	617.1	615.6	614.2	618.6	618.6
17.5°	608.2	606.7	605.2	611.2	611.2
20°	596.2	596.2	596.2	602.2	600.7
22.5°	584.3	584.3	585.8	591.7	590.2
25°	572.3	570.8	572.3	578.3	579.8
27.5°	557.4	558.9	560.4	566.3	567.8
30°	542.4	543.9	545.4	552.9	554.4
32.5°	524.5	527.5	530.5	539.4	539.4
35°	506.6	509.6	514.0	524.5	526.0
37.5°	487.1	490.1	496.1	508.1	511.0
40°	466.2	470.7	479.7	491.6	496.1
42.5°	445.3	451.3	461.7	475.2	481.2
45°	422.9	428.9	442.3	458.7	466.2
47.5°	399.0	406.4	422.9	443.8	449.8
50°	373.6	384.0	403.5	425.9	433.3
52.5°	348.2	360.1	384.0	407.9	415.4
55°	321.3	334.7	364.6	388.5	397.5
57.5°	294.4	309.3	343.7	369.1	378.1
60°	266.0	283.9	321.3	346.7	354.1
62.5°	237.6	258.5	298.9	324.3	330.2
65°	207.7	233.1	274.9	297.4	303.3
67.5°	179.3	209.2	251.0	267.5	267.5
70°	149.4	182.3	224.1	228.6	219.7
72.5°	119.5	156.9	194.3	177.8	170.3
75°	91.2	133.0	152.4	137.5	133.0
77.5°	68.7	107.6	107.6	98.6	95.6
80°	47.8	82.2	71.7	62.8	58.3
82.5°	31.4	46.3	37.4	29.9	25.4
85°	16.4	17.9	10.5	9.0	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)