

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: P275869

Luminaire Tested: **14CZ2-35-RDP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275869  
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-4500K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2027.0 lumens  
Efficiency: N/A  
Efficacy: 72.4 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

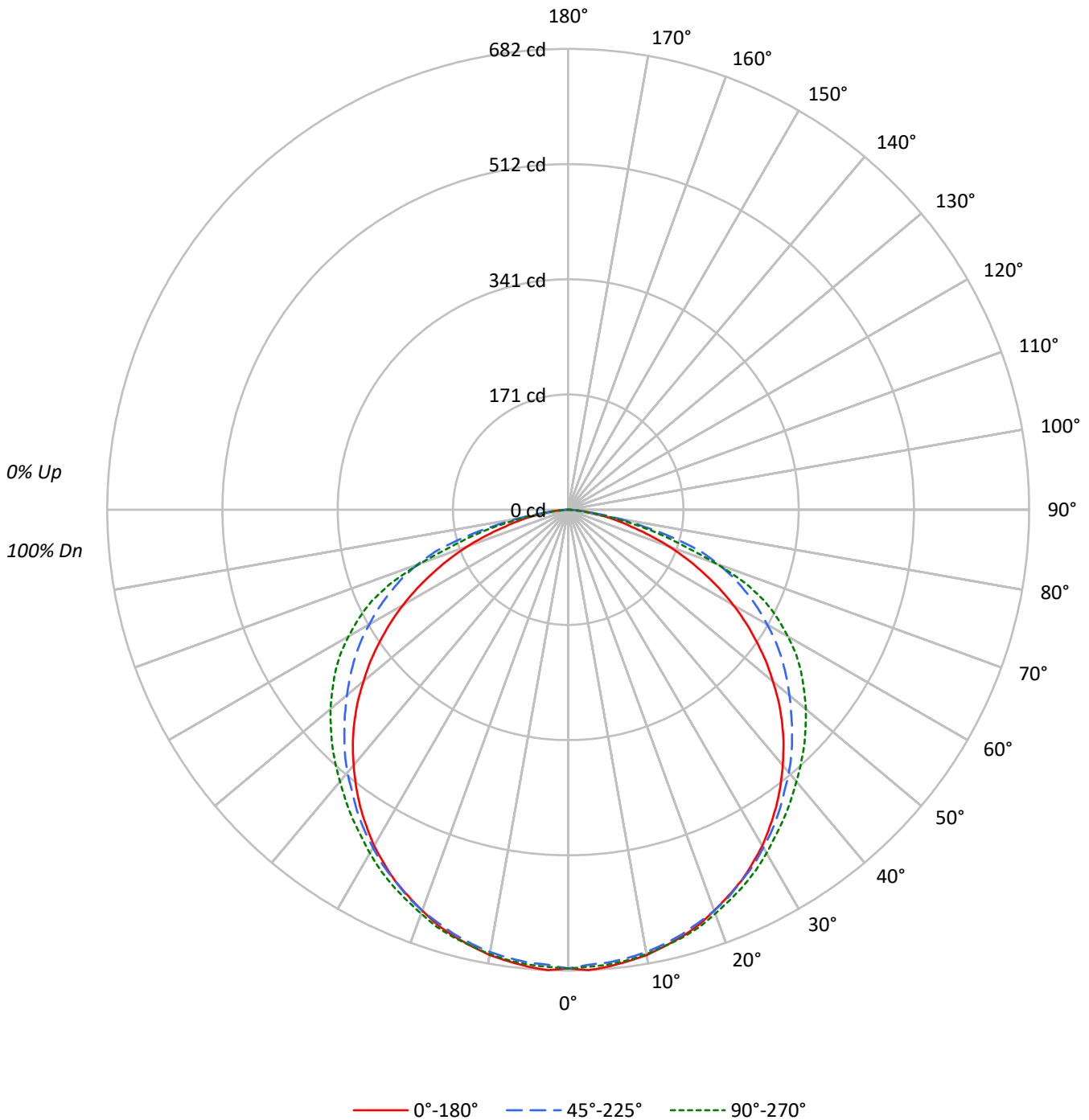
Input Watts (W): 27.993  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1827	1827	1827
5°	1834	1817	1825
10°	1829	1816	1825
15°	1821	1812	1825
20°	1808	1808	1822
25°	1800	1800	1823
30°	1785	1795	1824
35°	1762	1788	1830
40°	1734	1785	1846
45°	1704	1783	1879
50°	1656	1789	1921
55°	1596	1811	1975
60°	1516	1831	2019
65°	1401	1854	2045
70°	1245	1868	1830
75°	1003	1678	1464
80°	784	1178	956
85°	537	343	244



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.3	3.2
10°-20°	184.4	9.1
20°-30°	280.7	13.8
30°-40°	341.9	16.9
40°-50°	362.7	17.9
50°-60°	342.4	16.9
60°-70°	276.4	13.6
70°-80°	149.9	7.4
80°-90°	24.3	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°	529.3	26.1
0°-40°	871.3	43.0
0°-60°	1576.4	77.8
0°-90°	2027.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2027.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	679	679	679	679	679	
5°	679	677	673	677	676	64
15°	654	652	650	655	655	184
25°	606	604	606	612	614	279
35°	536	540	544	556	557	335
45°	448	454	468	486	494	345
55°	340	354	386	412	421	304
65°	220	247	291	315	321	218
75°	96	141	161	146	141	105
85°	17	19	11	10	8	22
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	678.9	678.9	678.9	678.9	678.9
2.5°	682.1	678.9	674.1	678.9	677.3
5°	678.9	677.3	672.6	677.3	675.7
7.5°	674.1	674.1	669.4	672.6	672.6
10°	669.4	667.8	664.7	669.4	667.8
12.5°	661.5	659.9	658.3	663.1	661.5
15°	653.6	652.0	650.4	655.2	655.2
17.5°	644.1	642.5	640.9	647.2	647.2
20°	631.4	631.4	631.4	637.7	636.2
22.5°	618.8	618.8	620.3	626.7	625.1
25°	606.1	604.5	606.1	612.4	614.0
27.5°	590.3	591.9	593.4	599.8	601.4
30°	574.4	576.0	577.6	585.5	587.1
32.5°	555.5	558.6	561.8	571.3	571.3
35°	536.5	539.6	544.4	555.5	557.0
37.5°	515.9	519.1	525.4	538.1	541.2
40°	493.7	498.5	508.0	520.6	525.4
42.5°	471.6	477.9	489.0	503.2	509.6
45°	447.8	454.2	468.4	485.8	493.7
47.5°	422.5	430.4	447.8	470.0	476.3
50°	395.6	406.7	427.3	451.0	458.9
52.5°	368.7	381.4	406.7	432.0	439.9
55°	340.2	354.5	386.1	411.5	420.9
57.5°	311.8	327.6	364.0	390.9	400.4
60°	281.7	300.7	340.2	367.1	375.1
62.5°	251.6	273.8	316.5	343.4	349.7
65°	220.0	246.9	291.2	314.9	321.2
67.5°	189.9	221.6	265.9	283.3	283.3
70°	158.3	193.1	237.4	242.1	232.6
72.5°	126.6	166.2	205.7	188.3	180.4
75°	96.5	140.8	161.4	145.6	140.8
77.5°	72.8	113.9	113.9	104.4	101.3
80°	50.6	87.0	76.0	66.5	61.7
82.5°	33.2	49.1	39.6	31.7	26.9
85°	17.4	19.0	11.1	9.5	7.9
87.5°	6.3	3.2	1.6	3.2	1.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)