

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: P275389

Luminaire Tested: **14CZ2-20-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275389  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-49)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ2-20-UNV-L83050-W2A1-U-3500K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER  
WITH RIBBED LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2078.0 lumens  
Efficiency: N/A  
Efficacy: 135.4 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

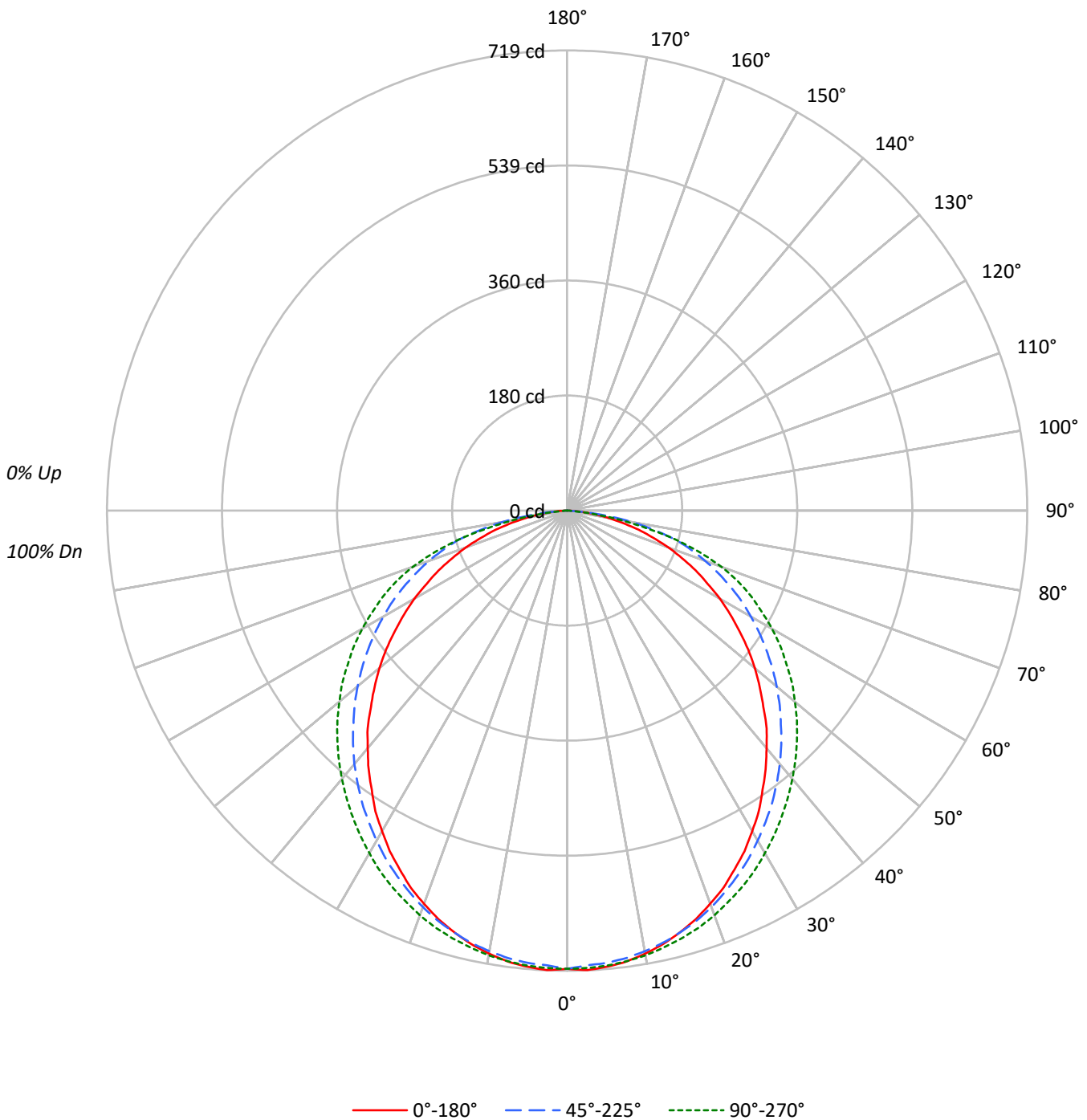
Input Watts (W): 15.345  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	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	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24

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

	0°	45°	90°
0°	1926	1926	1926
5°	1932	1916	1928
10°	1921	1911	1928
15°	1900	1901	1927
20°	1872	1888	1927
25°	1837	1870	1925
30°	1797	1850	1921
35°	1749	1834	1919
40°	1703	1816	1922
45°	1650	1797	1932
50°	1602	1788	1945
55°	1541	1782	1963
60°	1486	1786	1990
65°	1410	1791	2021
70°	1323	1805	2020
75°	1200	1821	1826
80°	984	1573	1300
85°	729	744	299



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.7	3.3
10°-20°	193.5	9.3
20°-30°	291.5	14.0
30°-40°	349.8	16.8
40°-50°	364.6	17.5
50°-60°	337.5	16.2
60°-70°	272.7	13.1
70°-80°	166.3	8.0
80°-90°	34.3	1.7
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°	552.7	26.6
0°-40°	902.6	43.4
0°-60°	1604.7	77.2
0°-90°	2078.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2078.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	716	716	716	716	716	
5°	715	714	709	714	714	68
15°	682	682	682	692	692	192
25°	619	622	630	645	648	285
35°	532	541	558	579	584	334
45°	434	447	472	499	508	335
55°	328	346	380	410	418	294
65°	222	243	281	310	317	219
75°	115	141	175	178	176	121
85°	24	35	24	13	10	29
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	715.9	715.9	715.9	715.9	715.9
2.5°	718.7	716.3	711.2	716.3	715.4
5°	715.4	713.6	709.4	714.5	713.6
7.5°	710.8	708.9	705.2	711.2	710.3
10°	702.9	702.0	699.2	706.1	705.7
12.5°	693.6	693.2	691.8	699.7	699.2
15°	682.1	682.5	682.5	691.8	691.8
17.5°	669.1	670.0	671.9	682.1	683.4
20°	653.8	655.6	659.3	670.9	672.8
22.5°	638.0	639.4	645.0	658.9	660.7
25°	618.6	622.3	629.7	645.4	648.2
27.5°	600.0	603.3	613.5	629.7	634.3
30°	578.3	583.4	595.4	613.0	618.1
32.5°	557.4	563.0	576.9	597.3	601.9
35°	532.4	540.7	558.3	578.7	584.3
37.5°	509.7	517.6	537.5	559.7	566.2
40°	484.7	494.4	517.1	540.7	547.2
42.5°	461.5	470.8	495.3	519.4	528.2
45°	433.7	446.7	472.2	498.6	507.8
47.5°	408.2	421.2	450.4	478.6	487.0
50°	382.7	396.6	427.2	456.4	464.7
52.5°	356.3	371.1	404.0	433.2	443.0
55°	328.5	345.7	379.9	409.6	418.4
57.5°	302.1	319.7	356.3	386.4	395.2
60°	276.2	294.2	331.8	360.5	369.8
62.5°	247.4	268.7	307.7	335.9	342.9
65°	221.5	243.3	281.3	309.5	317.4
67.5°	194.1	217.8	255.8	281.7	289.1
70°	168.2	192.8	229.4	253.5	256.7
72.5°	140.4	165.4	202.5	217.8	217.8
75°	115.4	140.9	175.1	177.9	175.6
77.5°	88.0	116.3	138.5	133.0	127.4
80°	63.5	91.3	101.5	91.3	83.9
82.5°	42.6	66.3	61.2	48.7	43.1
85°	23.6	35.2	24.1	13.4	9.7
87.5°	8.8	7.9	2.3	2.3	2.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)