

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: P275562

Luminaire Tested: **14CZ2-25-S-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275562  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-40)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ2-25-S-UNV-L83050-W2A1-U-3500K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2451.0 lumens  
Efficiency: N/A  
Efficacy: 134.5 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

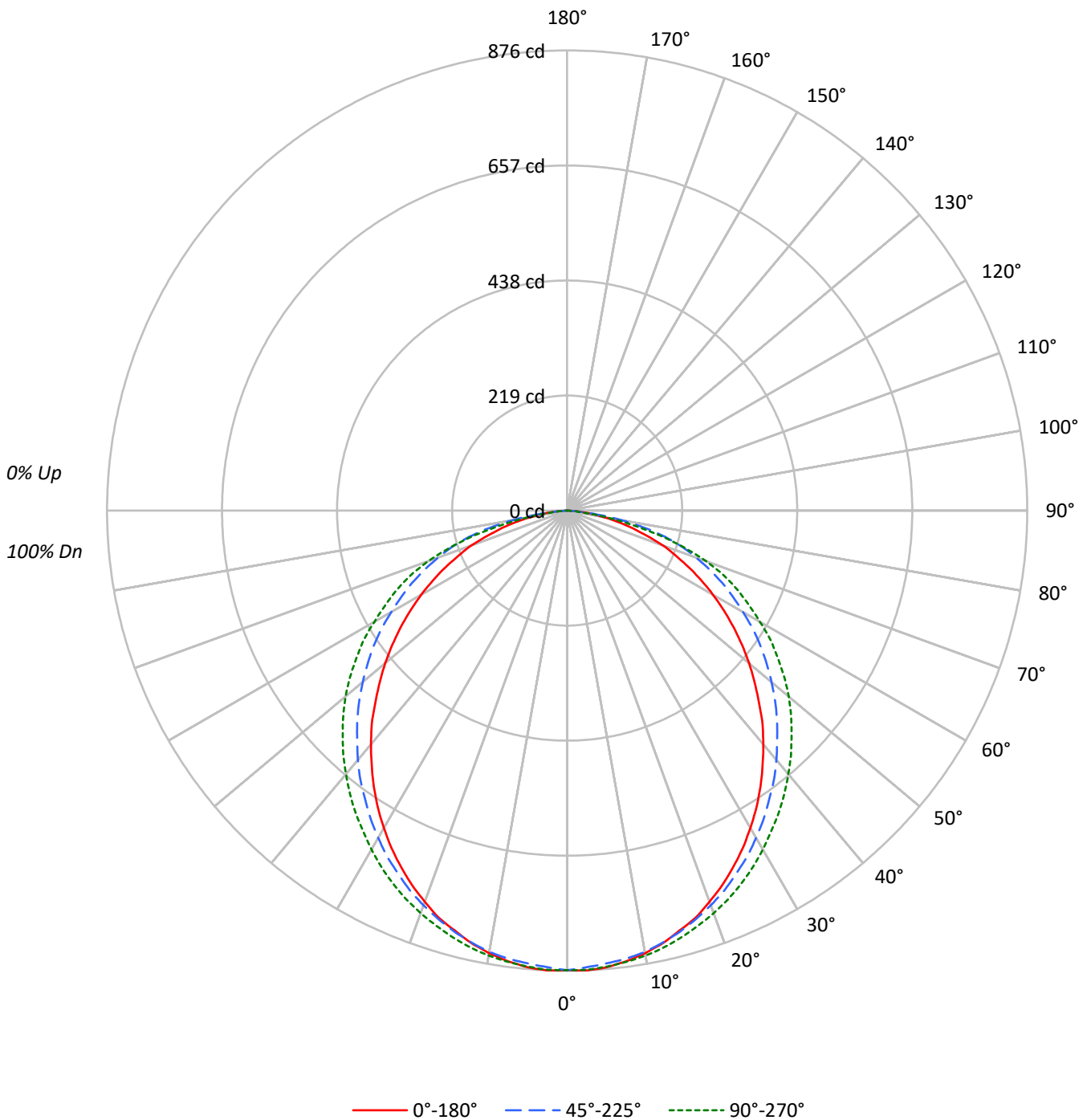
Input Watts (W): 18.228  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	94	91	89	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

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

	0°	45°	90°
0°	2355	2355	2355
5°	2357	2337	2354
10°	2338	2331	2351
15°	2306	2312	2343
20°	2269	2290	2335
25°	2223	2262	2327
30°	2167	2235	2315
35°	2108	2204	2307
40°	2041	2177	2301
45°	1966	2151	2299
50°	1893	2127	2305
55°	1813	2109	2297
60°	1727	2080	2282
65°	1625	2074	2283
70°	1530	2056	2218
75°	1327	2009	1895
80°	1074	1619	1261
85°	713	562	377



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.6	3.4
10°-20°	235.1	9.6
20°-30°	352.7	14.4
30°-40°	420.7	17.2
40°-50°	434.9	17.7
50°-60°	397.1	16.2
60°-70°	312.5	12.7
70°-80°	181.9	7.4
80°-90°	33.5	1.4
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°	670.4	27.4
0°-40°	1091.1	44.5
0°-60°	1923.1	78.5
0°-90°	2451.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2451.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	875	875	875	875	875	
5°	872	870	865	872	871	83
15°	828	829	830	841	841	234
25°	749	752	762	780	784	345
35°	642	650	671	696	702	401
45°	516	534	565	597	604	399
55°	386	407	450	482	490	346
65°	255	282	326	351	358	253
75°	128	158	193	190	182	136
85°	23	33	18	15	12	30
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	875.0	875.0	875.0	875.0	875.0
2.5°	876.2	873.8	870.1	876.2	875.0
5°	872.5	870.1	865.2	872.5	871.3
7.5°	865.2	862.8	860.4	867.7	866.5
10°	855.5	854.3	853.1	861.6	860.4
12.5°	843.4	843.4	842.2	851.9	851.9
15°	827.6	828.8	830.0	840.9	840.9
17.5°	813.0	811.8	815.4	827.6	828.8
20°	792.3	794.8	799.6	814.2	815.4
22.5°	771.7	774.1	782.6	797.2	800.8
25°	748.6	752.2	761.9	780.2	783.8
27.5°	724.3	729.1	742.5	761.9	765.6
30°	697.5	704.8	719.4	741.3	744.9
32.5°	670.8	678.1	696.3	718.2	723.1
35°	641.6	650.1	670.8	696.3	702.4
37.5°	611.3	622.2	646.5	672.0	679.3
40°	580.9	593.0	619.8	646.5	655.0
42.5°	550.5	562.7	591.8	622.2	630.7
45°	516.5	533.5	565.1	596.7	604.0
47.5°	483.7	501.9	537.1	568.7	578.4
50°	452.1	470.3	508.0	540.8	550.5
52.5°	419.3	438.7	478.8	512.8	521.3
55°	386.4	407.1	449.6	482.4	489.7
57.5°	353.6	375.5	419.3	450.9	459.4
60°	320.8	343.9	386.4	418.0	424.1
62.5°	288.0	312.3	356.1	384.0	390.1
65°	255.2	281.9	325.7	351.2	358.5
67.5°	223.6	250.3	292.9	317.2	323.3
70°	194.4	218.7	261.3	279.5	281.9
72.5°	158.0	188.4	229.7	239.4	233.3
75°	127.6	158.0	193.2	189.6	182.3
77.5°	97.2	127.6	150.7	138.5	128.8
80°	69.3	99.6	104.5	86.3	81.4
82.5°	45.0	69.3	58.3	45.0	36.5
85°	23.1	32.8	18.2	14.6	12.2
87.5°	7.3	4.9	2.4	2.4	1.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)