

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: P258611

Luminaire Tested: **14CZ-LD5-25-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258611  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35573)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ-LD5-25-UNV-L82765-W2A1-U-5500K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2558.0 lumens  
Efficiency: N/A  
Efficacy: 136.2 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

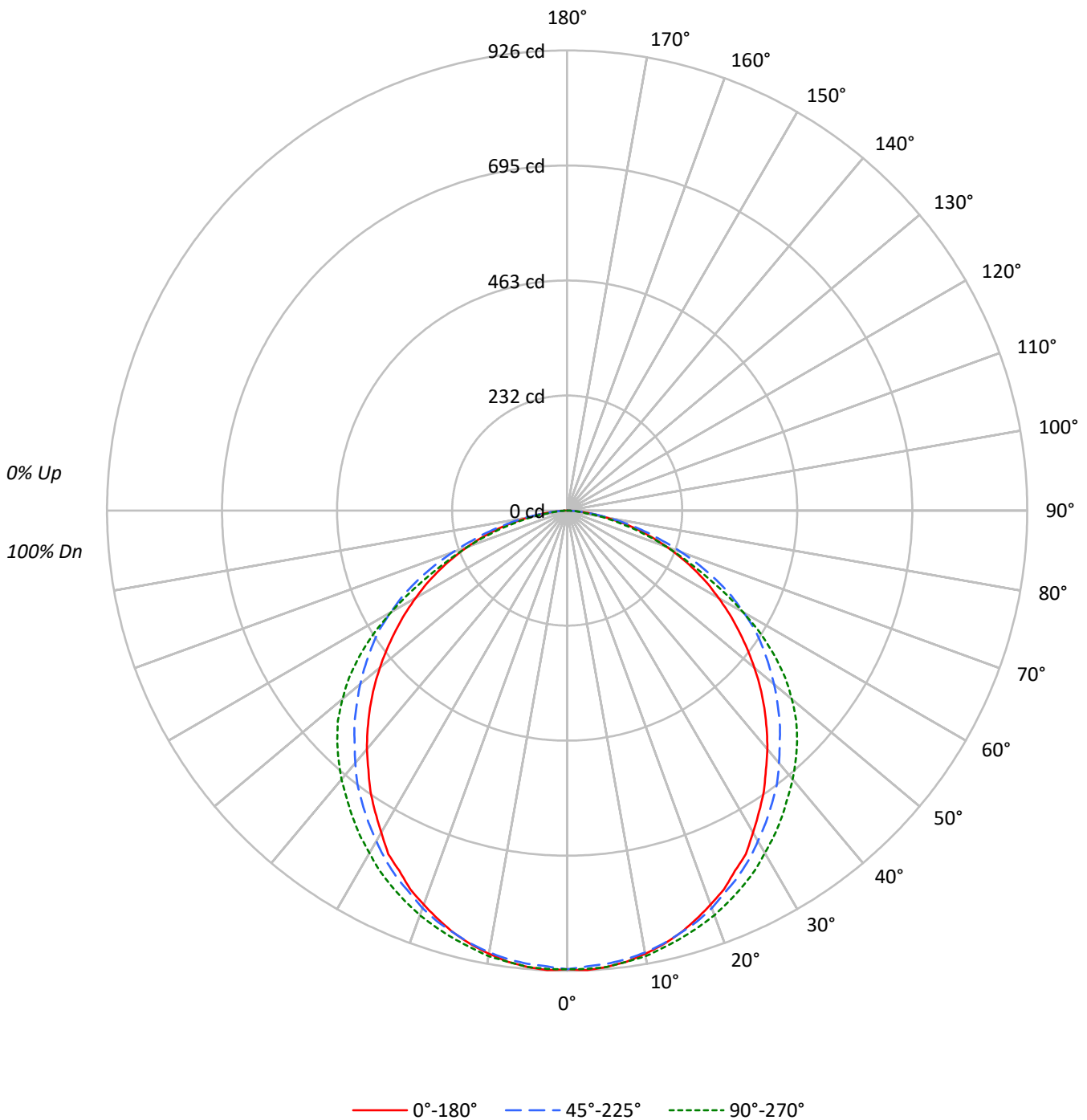
Input Watts (W): 18.786  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P258611

CATALOG NUMBER: 14CZ-LD5-25-UNV-L82765-W2A1-U-5500K

### Luminous Intensity Polar Plot





TEST NUMBER: P258611

CATALOG NUMBER: 14CZ-LD5-25-UNV-L82765-W2A1-U-5500K

**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	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	90	80	72	66	88	78	71	65	75	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	29	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

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

	0°	45°	90°
0°	2484	2484	2484
5°	2490	2473	2490
10°	2474	2467	2488
15°	2452	2452	2480
20°	2416	2438	2481
25°	2374	2415	2479
30°	2324	2386	2472
35°	2266	2361	2473
40°	2202	2330	2481
45°	2136	2304	2491
50°	2059	2275	2471
55°	1976	2254	2390
60°	1893	2206	2199
65°	1806	2112	1927
70°	1677	1924	1667
75°	1521	1678	1377
80°	1212	1330	1017
85°	855	741	584



TEST NUMBER: P258611

CATALOG NUMBER: 14CZ-LD5-25-UNV-L82765-W2A1-U-5500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.3	3.4
10°-20°	249.5	9.8
20°-30°	376.2	14.7
30°-40°	450.9	17.6
40°-50°	468.0	18.3
50°-60°	422.1	16.5
60°-70°	307.9	12.0
70°-80°	161.6	6.3
80°-90°	34.5	1.3
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°	713.1	27.9
0°-40°	1164.0	45.5
0°-60°	2054.1	80.3
0°-90°	2558.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2558.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	923	923	923	923	923	
5°	922	919	916	922	922	87
15°	880	880	880	890	890	248
25°	800	803	813	831	835	369
35°	690	697	719	745	753	431
45°	561	572	605	642	654	433
55°	421	436	480	512	510	377
65°	284	300	332	319	303	280
75°	146	166	161	140	132	153
85°	28	34	24	20	19	35
90°	0	0	0	0	0	



TEST NUMBER: P258611

CATALOG NUMBER: 14CZ-LD5-25-UNV-L82765-W2A1-U-5500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	923.1	923.1	923.1	923.1	923.1
2.5°	925.6	923.1	918.1	923.1	923.1
5°	921.8	919.3	915.5	921.8	921.8
7.5°	915.5	913.0	910.5	916.8	915.5
10°	905.5	904.2	902.9	910.5	910.5
12.5°	894.1	894.1	892.8	901.7	900.4
15°	880.2	880.2	880.2	890.3	890.3
17.5°	862.6	865.1	867.6	879.0	879.0
20°	843.7	846.2	851.2	865.1	866.4
22.5°	824.7	826.0	831.1	847.4	851.2
25°	799.5	803.3	813.4	831.1	834.8
27.5°	779.3	780.6	792.0	812.1	817.2
30°	747.8	756.6	768.0	790.7	795.7
32.5°	718.8	726.4	744.0	768.0	775.6
35°	689.8	697.4	718.8	745.3	752.9
37.5°	657.0	668.4	693.6	720.1	728.9
40°	626.8	636.8	663.3	696.1	706.2
42.5°	594.0	604.1	633.1	669.6	681.0
45°	561.2	572.5	605.3	641.9	654.5
47.5°	527.1	539.7	573.8	614.1	625.5
50°	491.8	505.7	543.5	585.1	590.2
52.5°	456.5	471.6	512.0	548.6	553.6
55°	421.2	436.3	480.5	512.0	509.5
57.5°	387.2	403.5	448.9	465.3	462.8
60°	351.8	369.5	409.9	417.4	408.6
62.5°	319.1	335.4	373.3	367.0	355.6
65°	283.7	300.1	331.7	319.1	302.7
67.5°	248.4	268.6	288.8	267.3	254.7
70°	213.1	235.8	244.6	223.2	211.9
72.5°	179.1	203.0	200.5	179.1	171.5
75°	146.3	166.5	161.4	140.0	132.4
77.5°	111.0	133.7	122.3	104.7	98.4
80°	78.2	98.4	85.8	70.6	65.6
82.5°	51.7	65.6	53.0	41.6	37.8
85°	27.7	34.0	24.0	20.2	18.9
87.5°	11.3	10.1	8.8	8.8	7.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)