

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: P258782

Luminaire Tested: **14CZ-LD5-29-S-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258782  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35112)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ-LD5-29-S-UNV-L82765-W2A1-U-2700K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2752.0 lumens  
Efficiency: N/A  
Efficacy: 124.3 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

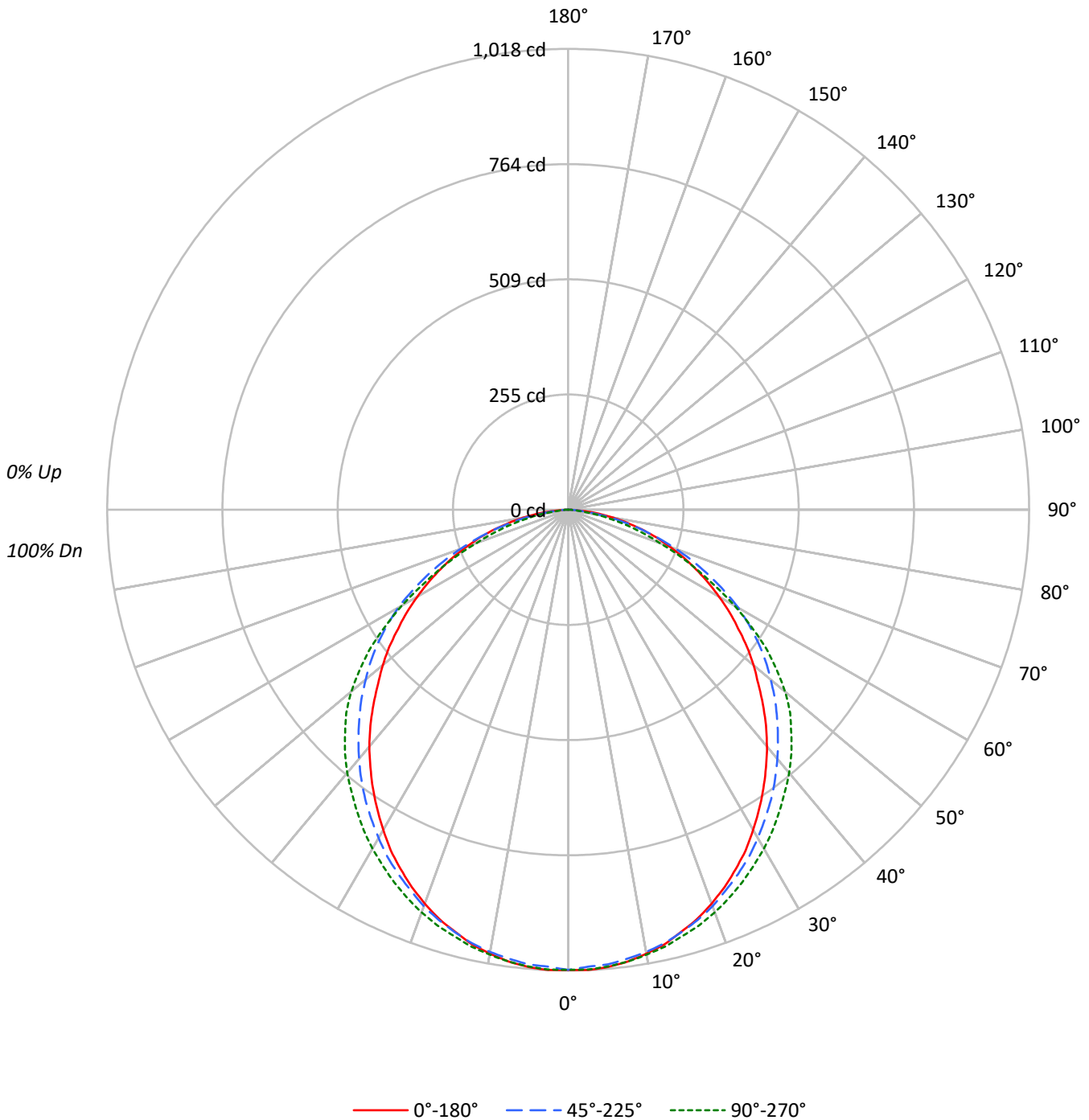
Input Watts (W): 22.134  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	105	100	97	106	102	98	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

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

	0°	45°	90°
0°	2736	2736	2736
5°	2739	2723	2736
10°	2721	2711	2728
15°	2689	2692	2716
20°	2651	2669	2711
25°	2600	2636	2698
30°	2538	2603	2686
35°	2469	2566	2671
40°	2399	2524	2667
45°	2315	2483	2651
50°	2238	2444	2618
55°	2152	2405	2502
60°	2073	2336	2284
65°	1983	2187	2007
70°	1872	1987	1698
75°	1747	1721	1403
80°	1539	1330	1026
85°	1210	642	568



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.1	3.5
10°-20°	273.7	9.9
20°-30°	410.7	14.9
30°-40°	489.6	17.8
40°-50°	504.3	18.3
50°-60°	449.4	16.3
60°-70°	323.8	11.8
70°-80°	169.4	6.2
80°-90°	35.0	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°	780.4	28.4
0°-40°	1270.0	46.1
0°-60°	2223.8	80.8
0°-90°	2752.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2752.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1017	1017	1017	1017	1017	
5°	1014	1012	1008	1014	1013	96
15°	965	966	966	976	975	272
25°	876	880	888	905	909	403
35°	752	762	781	807	813	470
45°	608	622	652	689	696	469
55°	459	473	513	536	533	411
65°	312	322	343	327	315	309
75°	168	177	166	144	135	178
85°	39	34	21	18	18	46
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1016.6	1016.6	1016.6	1016.6	1016.6
2.5°	1017.8	1015.4	1010.5	1016.6	1016.6
5°	1014.1	1011.7	1008.0	1014.1	1012.9
7.5°	1006.8	1004.3	1000.6	1008.0	1006.8
10°	995.7	994.5	992.1	999.4	998.2
12.5°	983.5	982.3	981.0	988.4	988.4
15°	965.1	966.3	966.3	976.1	974.9
17.5°	947.9	949.1	950.4	962.6	962.6
20°	925.8	927.1	932.0	945.5	946.7
22.5°	902.5	903.8	909.9	925.8	928.3
25°	875.6	880.5	887.8	905.0	908.7
27.5°	848.6	852.3	864.5	884.2	886.6
30°	816.7	824.1	837.6	859.6	864.5
32.5°	784.8	793.4	809.3	833.9	840.0
35°	751.7	761.5	781.1	806.9	813.0
37.5°	717.4	726.0	750.5	777.5	786.0
40°	683.0	691.6	718.6	749.3	759.1
42.5°	646.3	658.5	685.5	719.8	729.6
45°	608.2	621.7	652.4	689.2	696.5
47.5°	569.0	583.7	619.3	656.1	664.6
50°	534.7	548.1	583.7	619.3	625.4
52.5°	497.9	510.1	549.4	578.8	580.0
55°	458.6	473.3	512.6	535.9	533.4
57.5°	423.1	435.3	473.3	485.6	478.3
60°	385.1	396.1	434.1	435.3	424.3
62.5°	348.3	359.3	388.7	380.1	366.7
65°	311.5	322.5	343.4	327.4	315.2
67.5°	275.9	285.7	298.0	277.1	264.9
70°	237.9	251.4	252.6	228.1	215.8
72.5°	204.8	212.1	209.7	186.4	175.4
75°	168.0	176.6	165.5	143.5	134.9
77.5°	133.7	139.8	125.1	104.2	98.1
80°	99.3	103.0	85.8	69.9	66.2
82.5°	67.4	67.4	49.1	38.0	34.3
85°	39.2	34.3	20.8	18.4	18.4
87.5°	13.5	8.6	8.6	8.6	8.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)