

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: P258975

Luminaire Tested: **14CZ-LD5-39-RDP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258975  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35909)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ-LD5-39-RDP-UNV-L82765-W2A1-U-5700K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2727.0 lumens  
Efficiency: N/A  
Efficacy: 85.7 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

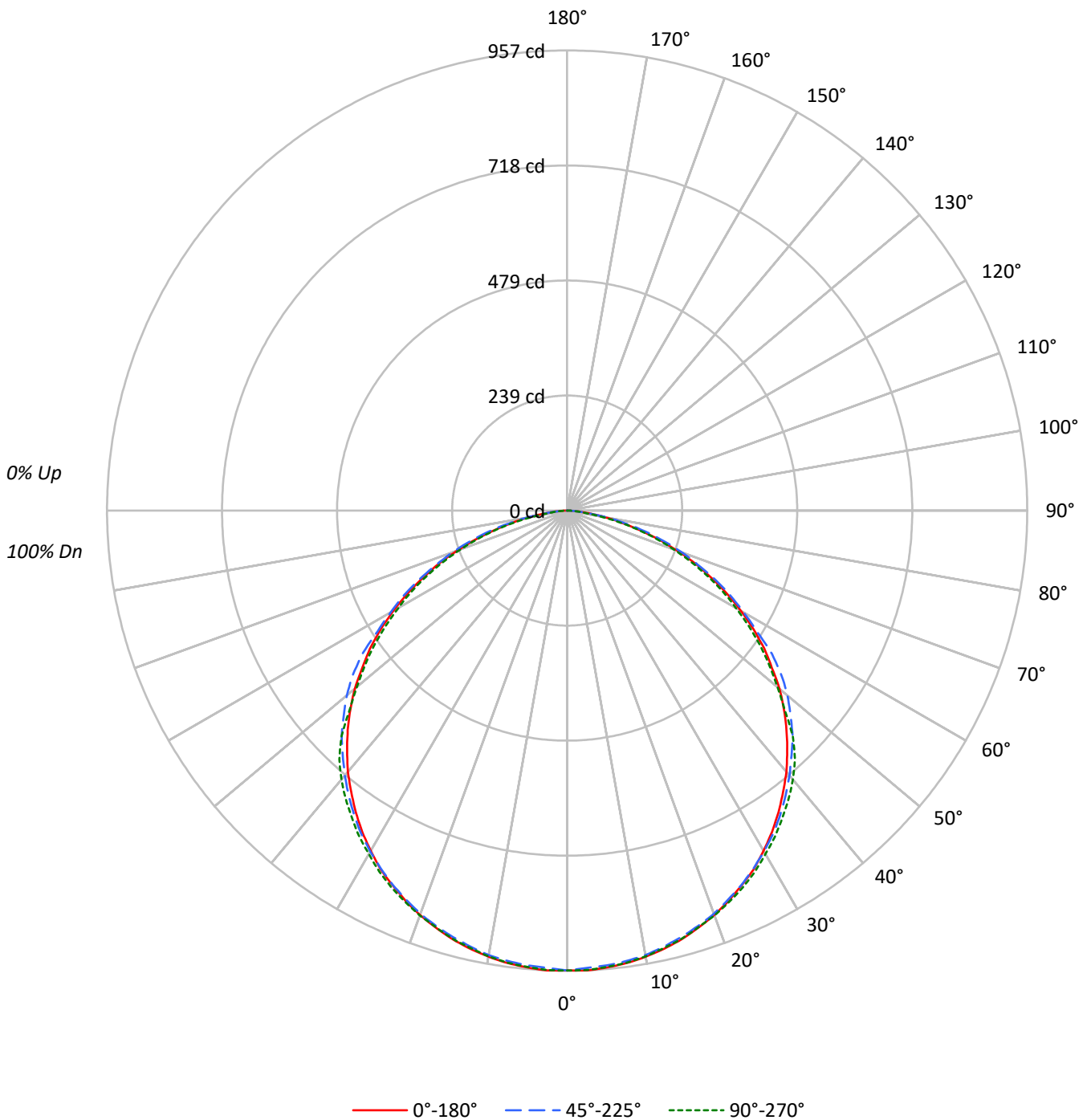
Input Watts (W): 31.806  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84					84			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70					70			
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59					59			
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51					51			
5	76	63	54	48	74	62	54	47	60	53	47	58	51	46	56	50	46	44					44			
6	70	57	48	42	68	56	47	41	54	47	41	52	46	41	51	45	40	38					38			
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34					34			
8	61	47	38	33	59	46	38	33	45	38	32	44	37	32	43	36	32	30					30			
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27					27			
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24					24			

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

	0°	45°	90°
0°	2574	2574	2574
5°	2576	2564	2574
10°	2574	2565	2572
15°	2570	2558	2568
20°	2563	2556	2566
25°	2552	2549	2568
30°	2538	2544	2563
35°	2517	2537	2564
40°	2492	2526	2566
45°	2456	2524	2527
50°	2415	2504	2389
55°	2348	2440	2302
60°	2248	2282	2181
65°	2105	2162	2049
70°	1916	1993	1853
75°	1599	1747	1571
80°	1268	1336	1088
85°	824	713	630



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.5	3.3
10°-20°	260.0	9.5
20°-30°	397.0	14.6
30°-40°	484.0	17.7
40°-50°	506.8	18.6
50°-60°	450.8	16.5
60°-70°	332.6	12.2
70°-80°	171.9	6.3
80°-90°	33.4	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°	747.5	27.4
0°-40°	1231.5	45.2
0°-60°	2189.1	80.3
0°-90°	2727.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2727.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	956	956	956	956	956	
5°	954	953	949	953	953	91
15°	923	922	918	922	922	260
25°	860	860	859	865	865	396
35°	766	767	772	781	780	479
45°	645	650	663	669	664	498
55°	500	511	520	498	491	446
65°	331	354	340	328	322	328
75°	154	170	168	155	151	166
85°	27	29	23	21	20	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	956.4	956.4	956.4	956.4	956.4
2.5°	957.3	956.4	951.9	956.4	956.4
5°	953.7	952.8	949.3	952.8	952.8
7.5°	949.3	948.4	944.8	948.4	948.4
10°	942.1	941.3	938.6	942.1	941.3
12.5°	933.3	933.3	928.8	933.3	931.5
15°	922.6	921.7	918.2	921.7	921.7
17.5°	909.3	908.4	905.7	910.2	908.4
20°	895.0	894.2	892.4	896.8	895.9
22.5°	878.2	878.2	875.5	880.8	880.8
25°	859.5	859.5	858.6	864.8	864.8
27.5°	840.8	839.0	839.0	845.3	846.2
30°	816.8	816.8	818.6	825.7	824.8
32.5°	792.8	793.7	797.3	803.5	804.4
35°	766.2	767.1	772.4	781.3	780.4
37.5°	737.7	740.4	746.6	756.4	756.4
40°	709.3	711.1	719.1	729.7	730.6
42.5°	677.3	681.7	690.6	703.1	701.3
45°	645.3	649.7	663.1	669.3	663.9
47.5°	611.5	616.8	630.2	631.1	613.3
50°	576.8	583.1	598.2	580.4	570.6
52.5°	536.8	548.4	561.7	536.8	530.6
55°	500.4	511.1	520.0	497.7	490.6
57.5°	459.5	473.7	467.5	456.9	448.0
60°	417.7	432.9	424.0	413.3	405.3
62.5°	375.1	392.0	383.1	372.4	365.3
65°	330.6	353.8	339.5	328.0	321.8
67.5°	288.9	311.1	294.2	285.3	279.1
70°	243.5	262.2	253.3	241.8	235.5
72.5°	199.1	213.3	210.7	198.2	193.8
75°	153.8	169.8	168.0	154.7	151.1
77.5°	115.5	130.7	125.3	114.7	110.2
80°	81.8	91.5	86.2	73.8	70.2
82.5°	49.8	57.8	48.9	41.8	38.2
85°	26.7	29.3	23.1	21.3	20.4
87.5°	9.8	9.8	9.8	8.9	8.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)