

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: P259198

Luminaire Tested: **14CZ-LD5-39-SQP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P259198  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35908)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ-LD5-39-SQP-UNV-L92765-W2A1-U-6500K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SQP LENS  
Light Source: (168) 90 CRI LEDS TUNED AT 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2388.0 lumens  
Efficiency: N/A  
Efficacy: 73.6 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

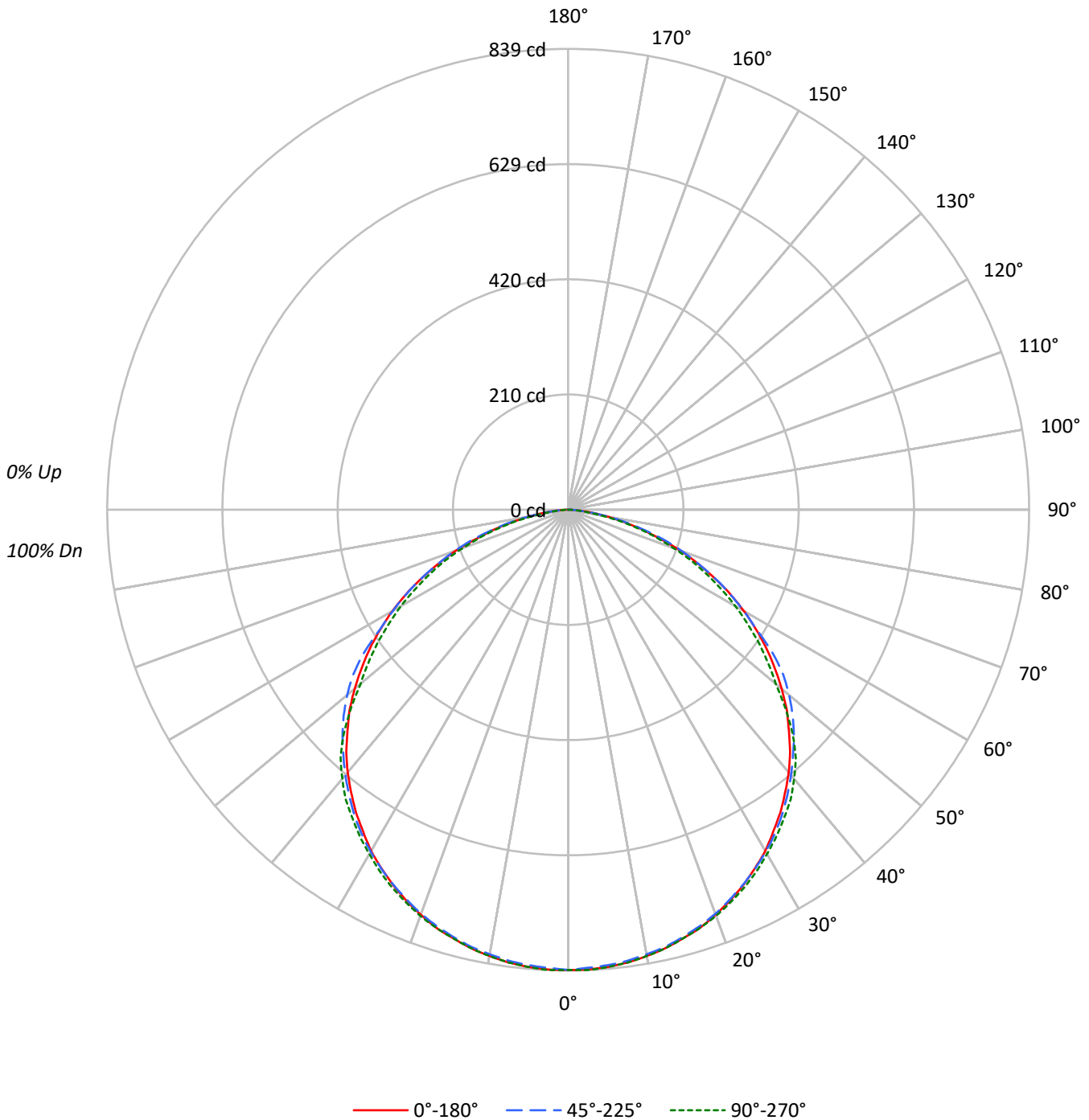
Input Watts (W): 32.457  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P259198

CATALOG NUMBER: 14CZ-LD5-39-SQP-UNV-L92765-W2A1-U-6500K

### Luminous Intensity Polar Plot





TEST NUMBER: P259198

CATALOG NUMBER: 14CZ-LD5-39-SQP-UNV-L92765-W2A1-U-6500K

**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	65	88	78	71	65	75	69	64	73	67	63	70	65	62	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24

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

	0°	45°	90°
0°	2255	2255	2255
5°	2257	2248	2257
10°	2254	2246	2254
15°	2251	2244	2251
20°	2247	2242	2254
25°	2238	2236	2253
30°	2229	2234	2249
35°	2211	2229	2251
40°	2193	2216	2248
45°	2161	2210	2201
50°	2123	2198	2066
55°	2068	2129	1988
60°	1990	1985	1894
65°	1864	1875	1772
70°	1712	1731	1603
75°	1438	1506	1370
80°	1141	1165	965
85°	750	648	550



TEST NUMBER: P259198

CATALOG NUMBER: 14CZ-LD5-39-SQP-UNV-L92765-W2A1-U-6500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.4	3.3
10°-20°	228.1	9.6
20°-30°	348.3	14.6
30°-40°	424.9	17.8
40°-50°	444.4	18.6
50°-60°	393.4	16.5
60°-70°	289.7	12.1
70°-80°	150.0	6.3
80°-90°	29.9	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°	655.7	27.5
0°-40°	1080.7	45.3
0°-60°	1918.4	80.3
0°-90°	2388.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2388.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	838	838	838	838	838	
5°	836	836	832	836	836	79
15°	808	808	806	809	808	228
25°	754	754	753	758	759	348
35°	673	675	679	685	685	421
45°	568	573	581	586	578	438
55°	441	450	454	430	424	393
65°	293	311	294	283	278	290
75°	138	148	145	136	132	148
85°	24	26	21	19	18	31
90°	0	0	0	0	0	



TEST NUMBER: P259198

CATALOG NUMBER: 14CZ-LD5-39-SQP-UNV-L92765-W2A1-U-6500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	838.0	838.0	838.0	838.0	838.0
2.5°	838.0	838.0	834.8	838.0	838.8
5°	835.6	835.6	832.3	835.6	835.6
7.5°	831.5	830.7	828.3	831.5	831.5
10°	825.0	825.0	821.8	825.9	825.0
12.5°	817.8	817.0	815.3	818.6	817.8
15°	808.1	808.1	805.6	808.9	808.1
17.5°	798.4	797.5	795.1	798.4	798.4
20°	784.6	783.8	783.0	786.2	787.0
22.5°	770.0	769.2	768.4	773.3	773.3
25°	753.9	753.9	753.1	757.9	758.7
27.5°	736.1	736.1	736.9	743.4	742.5
30°	717.5	717.5	719.1	723.9	723.9
32.5°	694.8	696.4	699.7	705.3	705.3
35°	673.0	674.6	678.6	685.1	685.1
37.5°	648.7	651.1	655.2	663.3	664.9
40°	624.4	626.1	630.9	639.8	639.8
42.5°	597.8	599.4	605.8	614.7	613.1
45°	567.8	572.7	580.8	585.6	578.3
47.5°	539.5	542.8	554.1	548.4	536.3
50°	507.2	513.6	525.0	504.7	493.4
52.5°	474.0	481.3	493.4	465.1	458.6
55°	440.8	449.7	453.8	430.3	423.8
57.5°	405.2	415.0	406.9	393.1	386.6
60°	369.7	381.0	368.8	355.9	351.9
62.5°	332.4	345.4	331.6	320.3	314.7
65°	292.8	310.6	294.4	283.1	278.3
67.5°	254.0	272.6	255.6	245.9	242.7
70°	217.6	228.1	220.0	210.3	203.8
72.5°	173.9	184.4	182.8	172.3	168.2
75°	138.3	148.0	144.8	135.9	131.8
77.5°	102.7	113.2	110.0	99.5	97.9
80°	73.6	80.9	75.2	65.5	62.3
82.5°	46.1	51.8	44.5	37.2	35.6
85°	24.3	25.9	21.0	18.6	17.8
87.5°	8.1	8.9	8.9	8.1	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)