

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: P259129

Luminaire Tested: **14CZ-LD5-35-SQP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P259129  
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-LD5-35-SQP-UNV-L82765-W2A1-U-3500K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER  
WITH SQP LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2228.0 lumens  
Efficiency: N/A  
Efficacy: 80.9 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

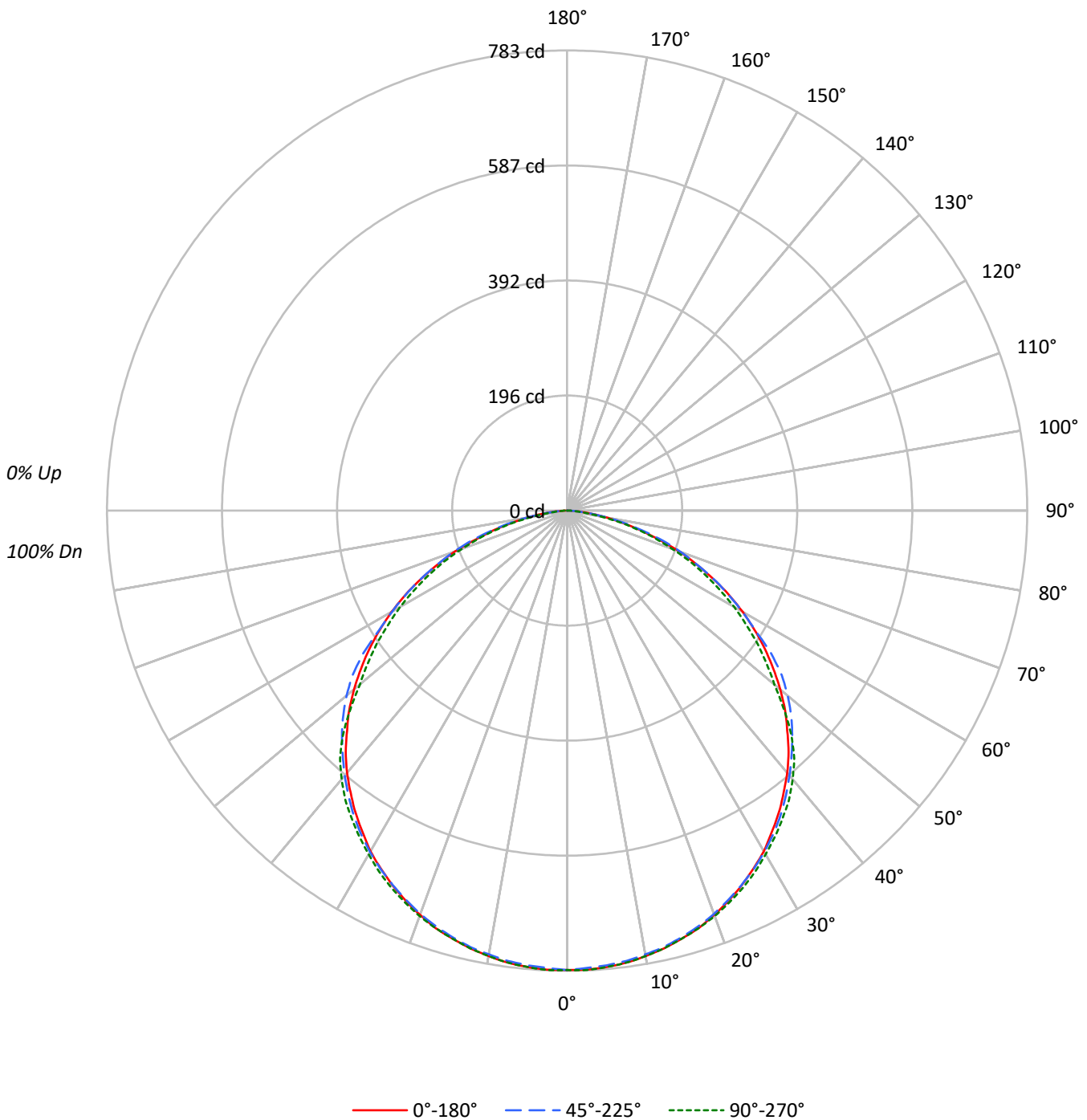
Input Watts (W): 27.528  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P259129

CATALOG NUMBER: 14CZ-LD5-35-SQP-UNV-L82765-W2A1-U-3500K

### Luminous Intensity Polar Plot





TEST NUMBER: P259129

CATALOG NUMBER: 14CZ-LD5-35-SQP-UNV-L82765-W2A1-U-3500K

**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°	2104	2104	2104
5°	2106	2098	2106
10°	2103	2095	2103
15°	2100	2094	2100
20°	2096	2092	2103
25°	2089	2086	2102
30°	2080	2085	2099
35°	2063	2080	2100
40°	2047	2068	2097
45°	2016	2062	2054
50°	1981	2051	1927
55°	1930	1986	1856
60°	1856	1852	1767
65°	1740	1749	1653
70°	1597	1615	1496
75°	1341	1405	1279
80°	1065	1088	900
85°	698	605	513



TEST NUMBER: P259129

CATALOG NUMBER: 14CZ-LD5-35-SQP-UNV-L82765-W2A1-U-3500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.0	3.3
10°-20°	212.8	9.6
20°-30°	325.0	14.6
30°-40°	396.5	17.8
40°-50°	414.6	18.6
50°-60°	367.0	16.5
60°-70°	270.3	12.1
70°-80°	139.9	6.3
80°-90°	27.9	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°	611.8	27.5
0°-40°	1008.3	45.3
0°-60°	1789.9	80.3
0°-90°	2228.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2228.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	782	782	782	782	782	
5°	780	780	777	780	780	74
15°	754	754	752	755	754	213
25°	703	703	703	707	708	324
35°	628	629	633	639	639	393
45°	530	534	542	546	540	409
55°	411	420	423	402	396	367
65°	273	290	275	264	260	271
75°	129	138	135	127	123	138
85°	23	24	20	17	17	29
90°	0	0	0	0	0	



TEST NUMBER: P259129

CATALOG NUMBER: 14CZ-LD5-35-SQP-UNV-L82765-W2A1-U-3500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	781.8	781.8	781.8	781.8	781.8
2.5°	781.8	781.8	778.8	781.8	782.6
5°	779.6	779.6	776.6	779.6	779.6
7.5°	775.8	775.1	772.8	775.8	775.8
10°	769.8	769.8	766.8	770.5	769.8
12.5°	763.0	762.2	760.7	763.7	763.0
15°	753.9	753.9	751.7	754.7	753.9
17.5°	744.9	744.1	741.8	744.9	744.9
20°	732.0	731.3	730.5	733.5	734.3
22.5°	718.5	717.7	716.9	721.5	721.5
25°	703.4	703.4	702.6	707.1	707.9
27.5°	686.8	686.8	687.5	693.5	692.8
30°	669.4	669.4	670.9	675.4	675.4
32.5°	648.3	649.8	652.8	658.1	658.1
35°	627.9	629.4	633.2	639.2	639.2
37.5°	605.3	607.5	611.3	618.8	620.3
40°	582.6	584.1	588.6	596.9	596.9
42.5°	557.7	559.2	565.3	573.6	572.0
45°	529.8	534.3	541.9	546.4	539.6
47.5°	503.4	506.4	517.0	511.7	500.4
50°	473.2	479.2	489.8	470.9	460.4
52.5°	442.2	449.0	460.4	433.9	427.9
55°	411.3	419.6	423.4	401.5	395.5
57.5°	378.1	387.1	379.6	366.8	360.7
60°	344.9	355.5	344.1	332.1	328.3
62.5°	310.2	322.2	309.4	298.9	293.6
65°	273.2	289.8	274.7	264.1	259.6
67.5°	237.0	254.3	238.5	229.4	226.4
70°	203.0	212.8	205.3	196.2	190.2
72.5°	162.3	172.1	170.6	160.7	157.0
75°	129.0	138.1	135.1	126.8	123.0
77.5°	95.8	105.7	102.6	92.8	91.3
80°	68.7	75.5	70.2	61.1	58.1
82.5°	43.0	48.3	41.5	34.7	33.2
85°	22.6	24.1	19.6	17.4	16.6
87.5°	7.5	8.3	8.3	7.5	7.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)