

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: P259144

Luminaire Tested: **14CZ-LD5-39-SQP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P259144  
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-L82765-W2A1-U-6500K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER  
WITH SQP LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2631.0 lumens  
Efficiency: N/A  
Efficacy: 81.3 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

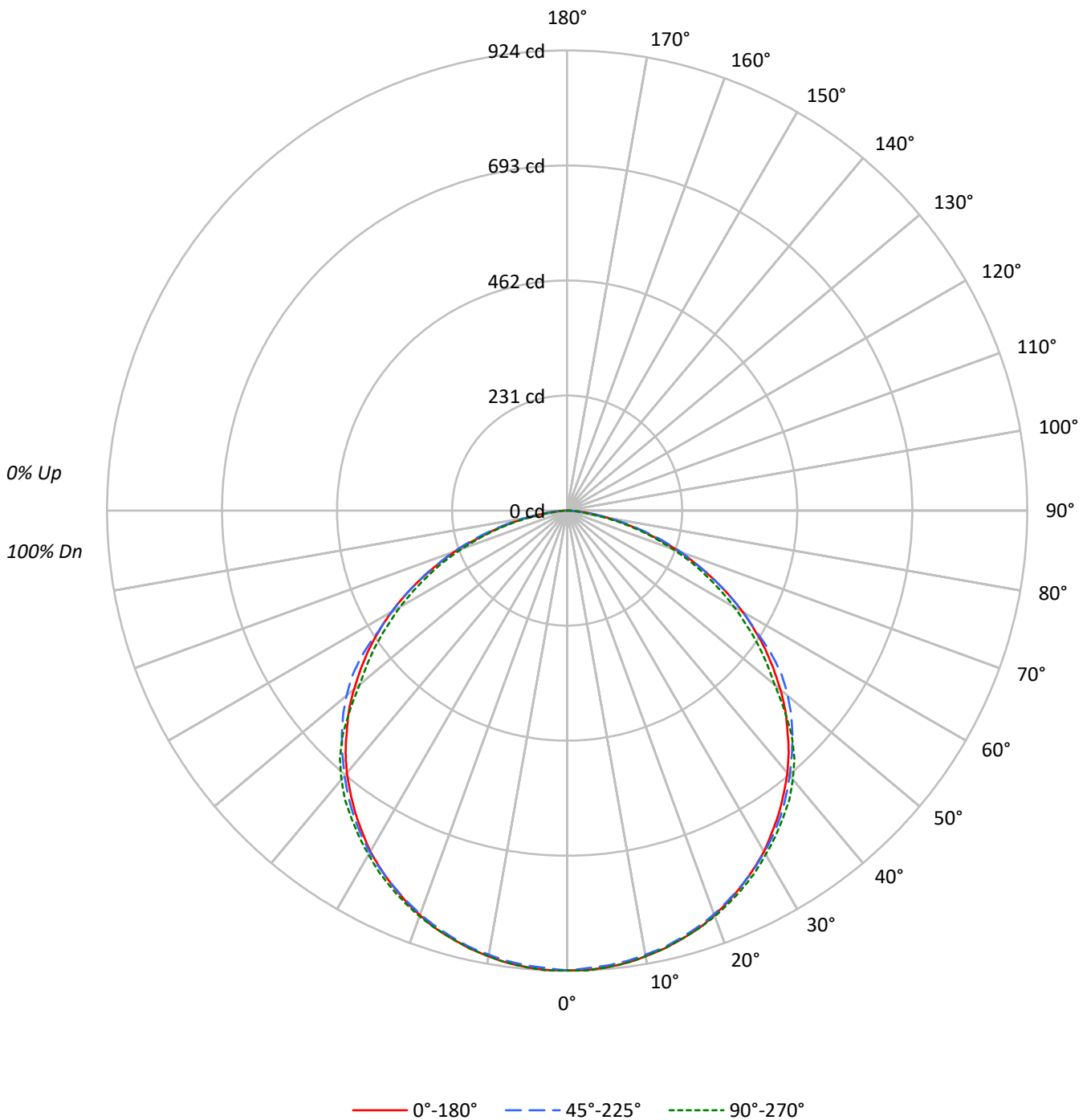
Input Watts (W): 32.364  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2485	2485	2485
5°	2487	2477	2487
10°	2484	2474	2484
15°	2480	2473	2480
20°	2475	2470	2483
25°	2466	2464	2482
30°	2456	2462	2478
35°	2436	2456	2480
40°	2417	2442	2476
45°	2381	2435	2425
50°	2339	2421	2276
55°	2279	2346	2191
60°	2192	2187	2087
65°	2054	2066	1952
70°	1886	1907	1767
75°	1585	1658	1511
80°	1257	1285	1063
85°	824	716	605



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.4	3.3
10°-20°	251.3	9.6
20°-30°	383.7	14.6
30°-40°	468.2	17.8
40°-50°	489.6	18.6
50°-60°	433.4	16.5
60°-70°	319.2	12.1
70°-80°	165.2	6.3
80°-90°	32.9	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°	722.5	27.5
0°-40°	1190.7	45.3
0°-60°	2113.7	80.3
0°-90°	2631.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2631.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	923	923	923	923	923	
5°	921	921	917	921	921	88
15°	890	890	888	891	890	251
25°	831	831	830	835	836	383
35°	742	743	748	755	755	464
45°	626	631	640	645	637	483
55°	486	496	500	474	467	433
65°	323	342	324	312	307	320
75°	152	163	160	150	145	163
85°	27	28	23	20	20	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	923.3	923.3	923.3	923.3	923.3
2.5°	923.3	923.3	919.7	923.3	924.2
5°	920.6	920.6	917.0	920.6	920.6
7.5°	916.1	915.2	912.6	916.1	916.1
10°	909.0	909.0	905.4	909.9	909.0
12.5°	901.0	900.1	898.3	901.9	901.0
15°	890.3	890.3	887.6	891.2	890.3
17.5°	879.6	878.7	876.0	879.6	879.6
20°	864.4	863.6	862.7	866.2	867.1
22.5°	848.4	847.5	846.6	852.0	852.0
25°	830.6	830.6	829.7	835.0	835.9
27.5°	811.0	811.0	811.9	819.0	818.1
30°	790.5	790.5	792.3	797.6	797.6
32.5°	765.5	767.3	770.9	777.1	777.1
35°	741.5	743.2	747.7	754.8	754.8
37.5°	714.7	717.4	721.9	730.8	732.6
40°	688.0	689.8	695.1	704.9	704.9
42.5°	658.6	660.4	667.5	677.3	675.5
45°	625.6	631.0	639.9	645.2	637.2
47.5°	594.4	598.0	610.5	604.2	590.9
50°	558.8	565.9	578.4	556.1	543.6
52.5°	522.2	530.3	543.6	512.4	505.3
55°	485.7	495.5	500.0	474.1	467.0
57.5°	446.5	457.2	448.3	433.1	426.0
60°	407.3	419.7	406.4	392.1	387.7
62.5°	366.3	380.5	365.4	352.9	346.7
65°	322.6	342.2	324.4	311.9	306.6
67.5°	279.8	300.3	281.6	270.9	267.4
70°	239.7	251.3	242.4	231.7	224.6
72.5°	191.6	203.2	201.4	189.8	185.4
75°	152.4	163.1	159.5	149.7	145.3
77.5°	113.2	124.8	121.2	109.6	107.8
80°	81.1	89.1	82.9	72.2	68.6
82.5°	50.8	57.0	49.0	41.0	39.2
85°	26.7	28.5	23.2	20.5	19.6
87.5°	8.9	9.8	9.8	8.9	8.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)