

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: P259028

Luminaire Tested: **14CZ-LD5-39-RDP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P259028  
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-L92765-W2A1-U-5500K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (168) 90 CRI LEDS TUNED AT 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2456.0 lumens  
Efficiency: N/A  
Efficacy: 77.2 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

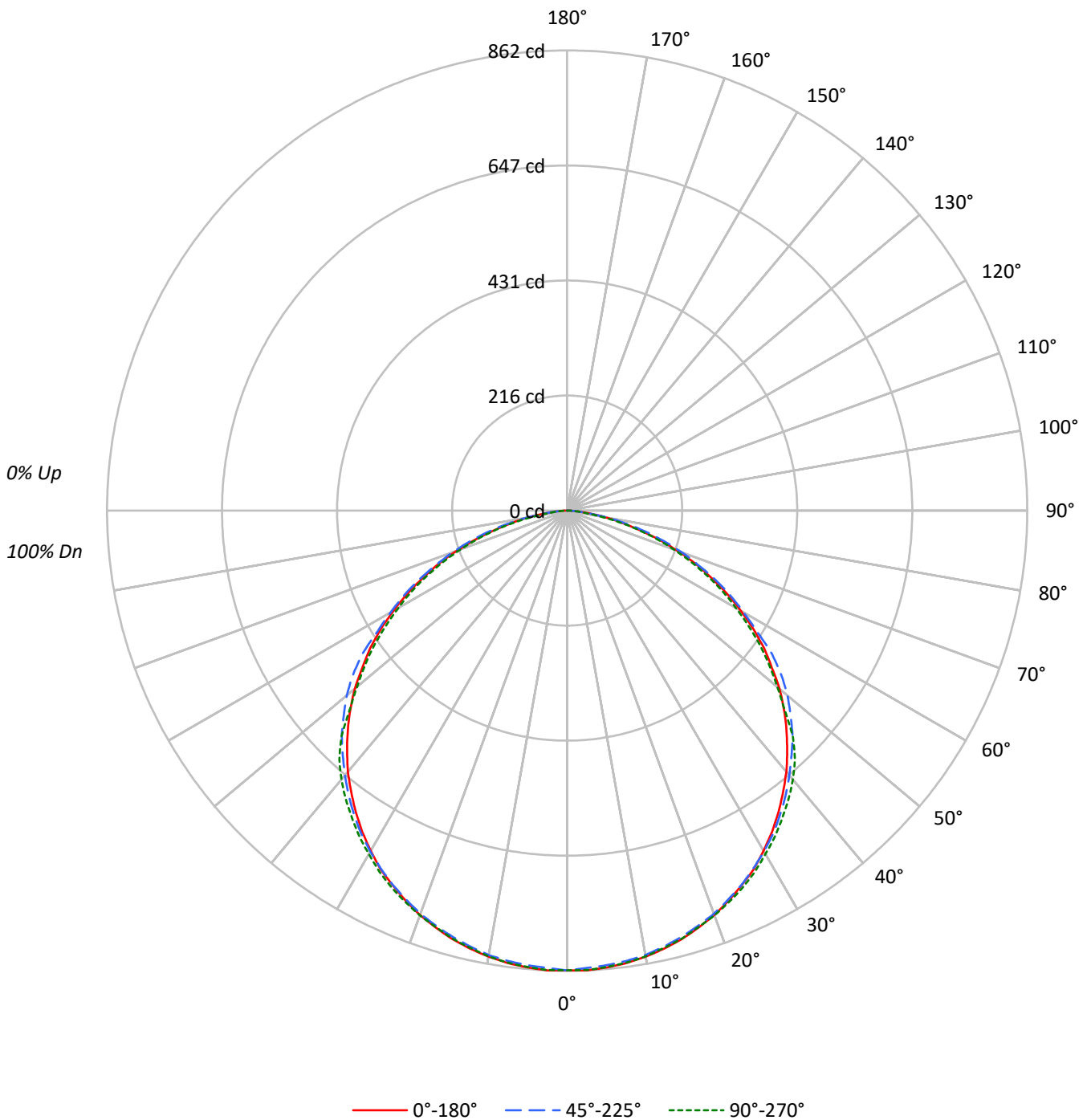
Input Watts (W): 31.806  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	47	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	61	47	38	33	59	46	38	33	45	38	32	44	37	32	43	36	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	26	38	31	26	37	31	26	36	30	26	24

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

	0°	45°	90°
0°	2318	2318	2318
5°	2320	2309	2318
10°	2319	2310	2316
15°	2315	2304	2313
20°	2308	2302	2311
25°	2298	2296	2313
30°	2286	2291	2308
35°	2267	2285	2309
40°	2244	2275	2311
45°	2212	2273	2276
50°	2175	2255	2151
55°	2114	2197	2073
60°	2025	2055	1964
65°	1896	1947	1845
70°	1725	1795	1669
75°	1440	1573	1415
80°	1141	1203	979
85°	741	642	568



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.5	3.3
10°-20°	234.2	9.5
20°-30°	357.5	14.6
30°-40°	435.9	17.7
40°-50°	456.4	18.6
50°-60°	406.0	16.5
60°-70°	299.6	12.2
70°-80°	154.8	6.3
80°-90°	30.1	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
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0°-30°	673.3	27.4
0°-40°	1109.1	45.2
0°-60°	1971.6	80.3
0°-90°	2456.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2456.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	861	861	861	861	861	
5°	859	858	855	858	858	82
15°	831	830	827	830	830	234
25°	774	774	773	779	779	357
35°	690	691	696	704	703	432
45°	581	585	597	603	598	448
55°	451	460	468	448	442	402
65°	298	319	306	295	290	295
75°	138	153	151	139	136	150
85°	24	26	21	19	18	31
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	861.3	861.3	861.3	861.3	861.3
2.5°	862.1	861.3	857.3	861.3	861.3
5°	858.9	858.1	854.9	858.1	858.1
7.5°	854.9	854.1	850.9	854.1	854.1
10°	848.5	847.7	845.3	848.5	847.7
12.5°	840.5	840.5	836.5	840.5	838.9
15°	830.9	830.1	826.9	830.1	830.1
17.5°	818.9	818.1	815.7	819.7	818.1
20°	806.1	805.3	803.7	807.7	806.9
22.5°	790.9	790.9	788.5	793.3	793.3
25°	774.1	774.1	773.3	778.9	778.9
27.5°	757.3	755.7	755.7	761.3	762.1
30°	735.7	735.7	737.3	743.7	742.9
32.5°	714.0	714.8	718.0	723.6	724.4
35°	690.0	690.8	695.6	703.6	702.8
37.5°	664.4	666.8	672.4	681.2	681.2
40°	638.8	640.4	647.6	657.2	658.0
42.5°	610.0	614.0	622.0	633.2	631.6
45°	581.2	585.2	597.2	602.8	598.0
47.5°	550.7	555.5	567.5	568.3	552.3
50°	519.5	525.1	538.7	522.7	513.9
52.5°	483.5	493.9	505.9	483.5	477.9
55°	450.7	460.3	468.3	448.3	441.9
57.5°	413.9	426.7	421.1	411.5	403.4
60°	376.2	389.8	381.8	372.2	365.0
62.5°	337.8	353.0	345.0	335.4	329.0
65°	297.8	318.6	305.8	295.4	289.8
67.5°	260.2	280.2	265.0	257.0	251.4
70°	219.3	236.1	228.1	217.7	212.1
72.5°	179.3	192.1	189.7	178.5	174.5
75°	138.5	152.9	151.3	139.3	136.1
77.5°	104.1	117.7	112.9	103.3	99.3
80°	73.6	82.5	77.6	66.4	63.2
82.5°	44.8	52.0	44.0	37.6	34.4
85°	24.0	26.4	20.8	19.2	18.4
87.5°	8.8	8.8	8.8	8.0	8.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)