

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: P258897

Luminaire Tested: **14CZ-LD5-44-RDP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258897  
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-LD5-44-RDP-UNV-L83050-W2A1-U-3000K  
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED AT 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2764.0 lumens  
Efficiency: N/A  
Efficacy: 77.8 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

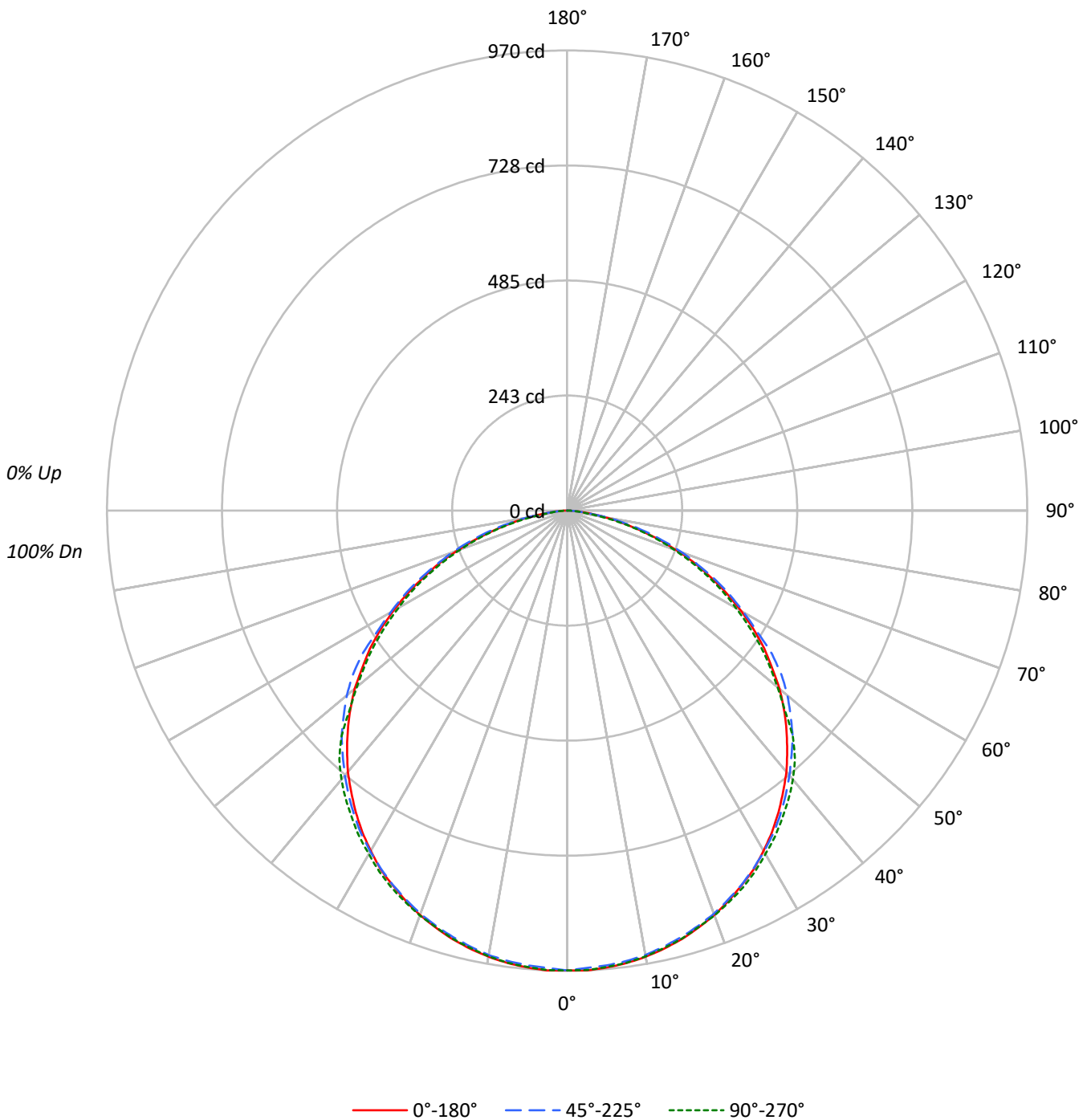
Input Watts (W): 35.526  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2608	2608	2608
5°	2611	2599	2609
10°	2609	2599	2607
15°	2605	2593	2603
20°	2598	2590	2601
25°	2586	2584	2603
30°	2573	2578	2598
35°	2551	2572	2598
40°	2525	2560	2601
45°	2489	2558	2561
50°	2448	2538	2421
55°	2380	2472	2333
60°	2279	2313	2211
65°	2134	2191	2076
70°	1942	2020	1878
75°	1621	1771	1592
80°	1285	1354	1103
85°	834	722	639



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.8	3.3
10°-20°	263.6	9.5
20°-30°	402.3	14.6
30°-40°	490.6	17.7
40°-50°	513.6	18.6
50°-60°	457.0	16.5
60°-70°	337.1	12.2
70°-80°	174.2	6.3
80°-90°	33.8	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°	757.7	27.4
0°-40°	1248.2	45.2
0°-60°	2218.8	80.3
0°-90°	2764.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2764.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	969	969	969	969	969	
5°	967	966	962	966	966	92
15°	935	934	931	934	934	264
25°	871	871	870	877	877	402
35°	777	778	783	792	791	486
45°	654	658	672	678	673	504
55°	507	518	527	504	497	452
65°	335	358	344	332	326	332
75°	156	172	170	157	153	169
85°	27	30	23	22	21	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	969.3	969.3	969.3	969.3	969.3
2.5°	970.2	969.3	964.8	969.3	969.3
5°	966.6	965.7	962.1	965.7	965.7
7.5°	962.1	961.2	957.6	961.2	961.2
10°	954.9	954.0	951.3	954.9	954.0
12.5°	945.9	945.9	941.4	945.9	944.1
15°	935.1	934.2	930.6	934.2	934.2
17.5°	921.6	920.7	918.0	922.5	920.7
20°	907.2	906.3	904.5	909.0	908.1
22.5°	890.1	890.1	887.4	892.8	892.8
25°	871.1	871.1	870.2	876.6	876.6
27.5°	852.2	850.4	850.4	856.7	857.6
30°	827.9	827.9	829.7	836.9	836.0
32.5°	803.6	804.5	808.1	814.4	815.3
35°	776.6	777.5	782.9	791.9	791.0
37.5°	747.7	750.4	756.7	766.6	766.6
40°	718.9	720.7	728.8	739.6	740.5
42.5°	686.5	691.0	700.0	712.6	710.8
45°	654.0	658.5	672.1	678.4	673.0
47.5°	619.8	625.2	638.7	639.6	621.6
50°	584.7	591.0	606.3	588.3	578.4
52.5°	544.1	555.8	569.4	544.1	537.8
55°	507.2	518.0	527.0	504.5	497.3
57.5°	465.8	480.2	473.9	463.1	454.0
60°	423.4	438.7	429.7	418.9	410.8
62.5°	380.2	397.3	388.3	377.5	370.3
65°	335.1	358.5	344.1	332.4	326.1
67.5°	292.8	315.3	298.2	289.2	282.9
70°	246.8	265.8	256.8	245.0	238.7
72.5°	201.8	216.2	213.5	200.9	196.4
75°	155.9	172.1	170.3	156.8	153.1
77.5°	117.1	132.4	127.0	116.2	111.7
80°	82.9	92.8	87.4	74.8	71.2
82.5°	50.4	58.6	49.5	42.3	38.7
85°	27.0	29.7	23.4	21.6	20.7
87.5°	9.9	9.9	9.9	9.0	9.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)