

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: P258978

Luminaire Tested: **14CZ-LD5-44-RDP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258978  
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-L82765-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: 2761.0 lumens  
Efficiency: N/A  
Efficacy: 78.1 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

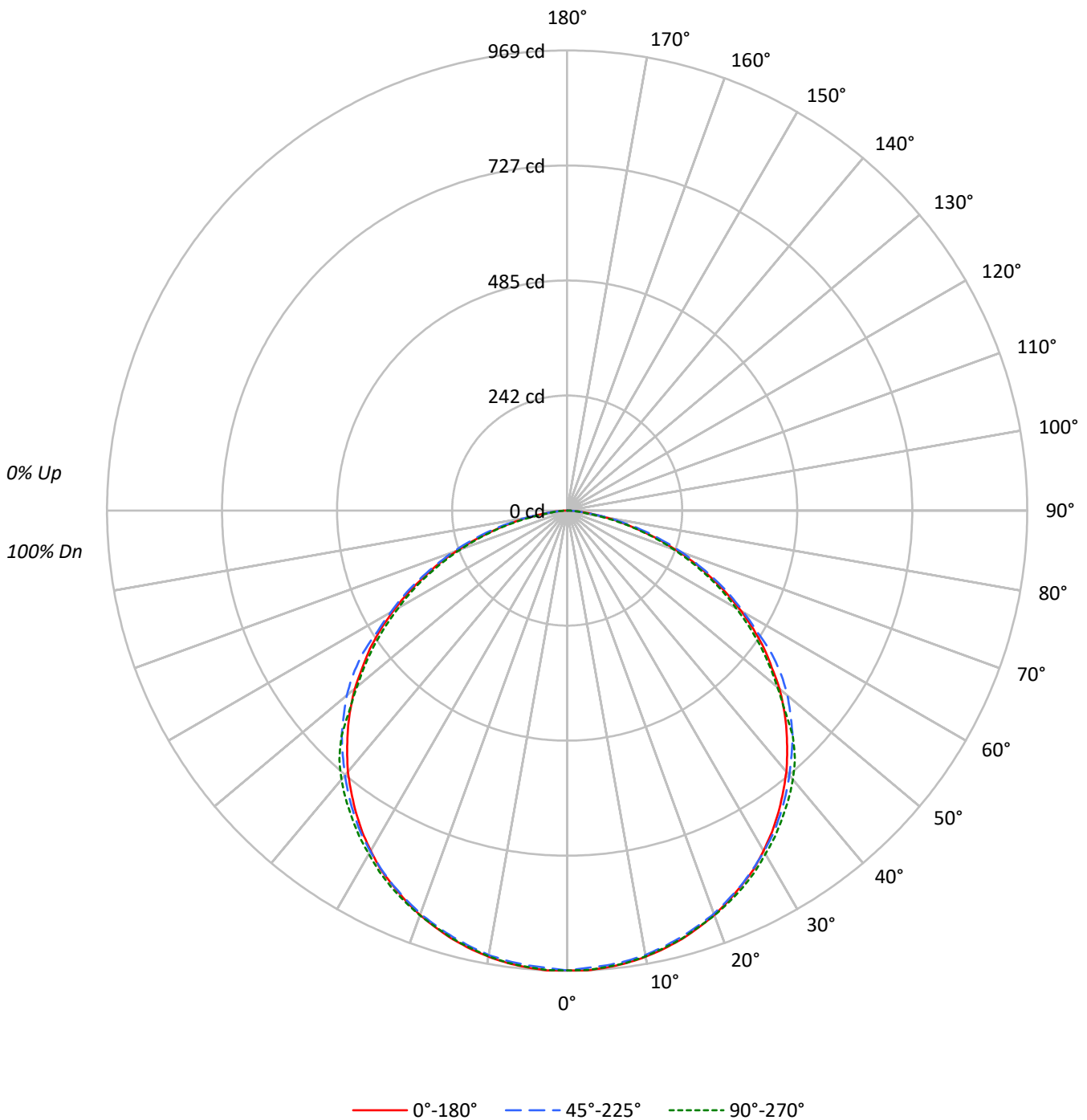
Input Watts (W): 35.34  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2606	2606	2606
5°	2608	2596	2606
10°	2607	2597	2604
15°	2602	2590	2600
20°	2595	2587	2598
25°	2584	2581	2600
30°	2570	2575	2595
35°	2548	2569	2596
40°	2523	2557	2598
45°	2486	2555	2558
50°	2445	2535	2418
55°	2377	2470	2330
60°	2277	2310	2209
65°	2132	2189	2074
70°	1940	2018	1876
75°	1619	1769	1591
80°	1283	1353	1102
85°	834	722	639



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.7	3.3
10°-20°	263.3	9.5
20°-30°	401.9	14.6
30°-40°	490.0	17.7
40°-50°	513.1	18.6
50°-60°	456.4	16.5
60°-70°	336.8	12.2
70°-80°	174.0	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°	756.9	27.4
0°-40°	1246.9	45.2
0°-60°	2216.4	80.3
0°-90°	2761.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2761.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	968	968	968	968	968	
5°	966	965	961	965	965	92
15°	934	933	930	933	933	264
25°	870	870	869	876	876	401
35°	776	777	782	791	790	485
45°	653	658	671	678	672	504
55°	507	517	526	504	497	451
65°	335	358	344	332	326	332
75°	156	172	170	157	153	168
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°	968.3	968.3	968.3	968.3	968.3
2.5°	969.2	968.3	963.8	968.3	968.3
5°	965.6	964.7	961.1	964.7	964.7
7.5°	961.1	960.2	956.6	960.2	960.2
10°	953.9	953.0	950.3	953.9	953.0
12.5°	944.9	944.9	940.4	944.9	943.1
15°	934.1	933.2	929.6	933.2	933.2
17.5°	920.6	919.7	917.0	921.5	919.7
20°	906.2	905.3	903.5	908.0	907.1
22.5°	889.1	889.1	886.4	891.8	891.8
25°	870.2	870.2	869.3	875.6	875.6
27.5°	851.3	849.5	849.5	855.8	856.7
30°	827.0	827.0	828.8	836.0	835.1
32.5°	802.7	803.6	807.2	813.5	814.4
35°	775.7	776.6	782.0	791.0	790.1
37.5°	746.9	749.6	755.9	765.8	765.8
40°	718.1	719.9	728.0	738.8	739.7
42.5°	685.7	690.2	699.2	711.8	710.0
45°	653.3	657.8	671.3	677.6	672.2
47.5°	619.1	624.5	638.0	638.9	620.9
50°	584.0	590.3	605.6	587.6	577.7
52.5°	543.5	555.2	568.7	543.5	537.2
55°	506.6	517.4	526.4	503.9	496.7
57.5°	465.2	479.6	473.3	462.5	453.6
60°	423.0	438.3	429.3	418.5	410.4
62.5°	379.8	396.9	387.9	377.1	369.9
65°	334.8	358.2	343.8	332.1	325.8
67.5°	292.5	315.0	297.9	288.9	282.6
70°	246.6	265.5	256.5	244.8	238.5
72.5°	201.6	216.0	213.3	200.7	196.2
75°	155.7	171.9	170.1	156.6	153.0
77.5°	117.0	132.3	126.9	116.1	111.6
80°	82.8	92.7	87.3	74.7	71.1
82.5°	50.4	58.5	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)