

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: P258930

Luminaire Tested: **14CZ-LD5-44-RDP-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258930
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-L93050-W2A1-U-4500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2731.0 lumens
Efficiency: N/A
Efficacy: 73.6 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

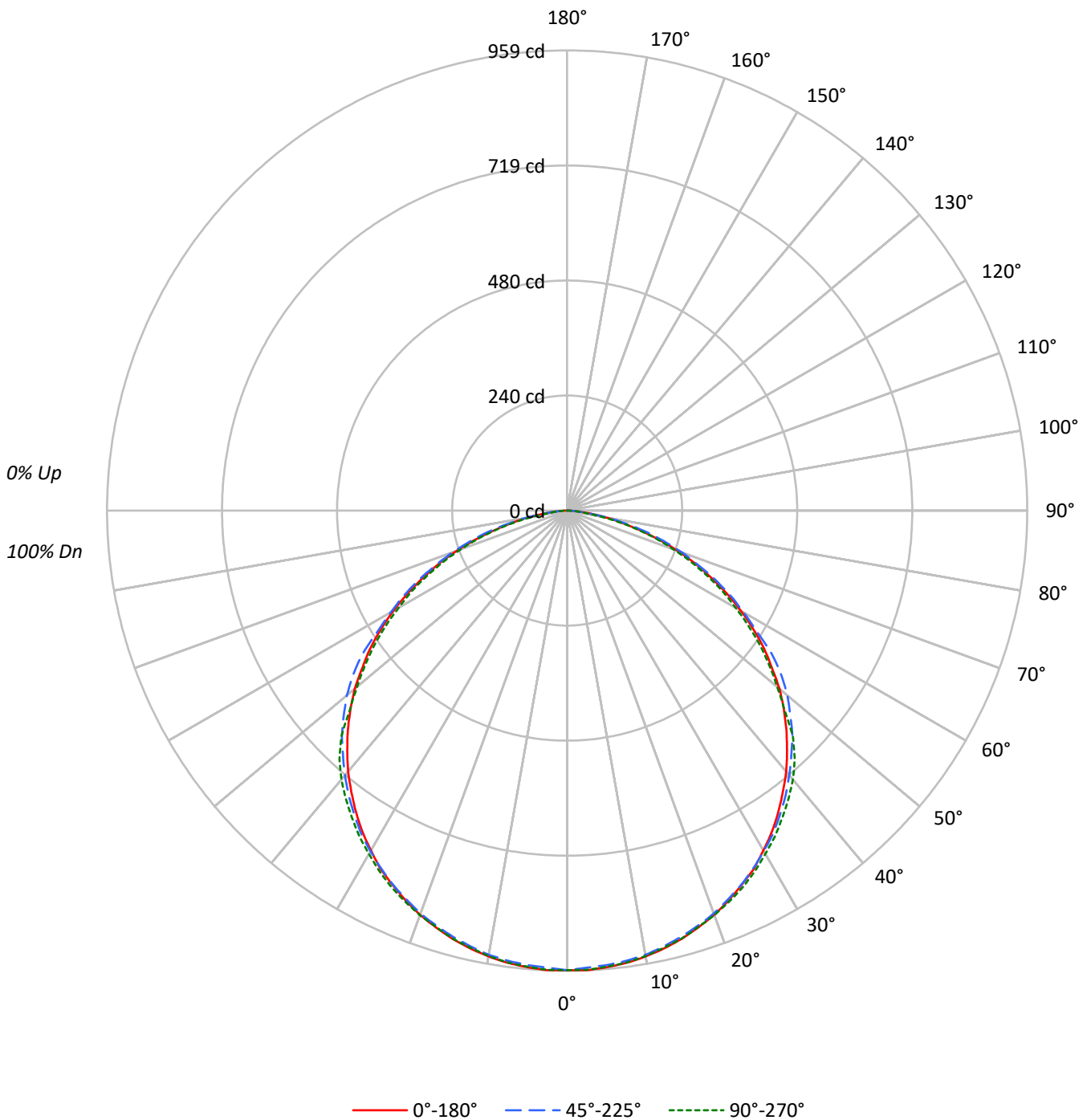
Input Watts (W): 37.107
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2577	2577	2577
5°	2580	2568	2578
10°	2578	2569	2576
15°	2574	2562	2572
20°	2567	2559	2569
25°	2556	2553	2572
30°	2542	2547	2567
35°	2521	2541	2567
40°	2495	2530	2570
45°	2459	2527	2530
50°	2418	2508	2393
55°	2351	2443	2305
60°	2252	2285	2185
65°	2108	2165	2052
70°	1919	1996	1856
75°	1601	1749	1573
80°	1269	1337	1089
85°	824	713	633



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.7	3.3
10°-20°	260.4	9.5
20°-30°	397.5	14.6
30°-40°	484.7	17.7
40°-50°	507.5	18.6
50°-60°	451.5	16.5
60°-70°	333.1	12.2
70°-80°	172.1	6.3
80°-90°	33.4	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°	748.6	27.4
0°-40°	1233.3	45.2
0°-60°	2192.3	80.3
0°-90°	2731.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2731.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	958	958	958	958	958	
5°	955	954	951	954	954	91
15°	924	923	920	923	923	261
25°	861	861	860	866	866	397
35°	767	768	774	782	782	480
45°	646	651	664	670	665	498
55°	501	512	521	498	491	447
65°	331	354	340	328	322	328
75°	154	170	168	155	151	167
85°	27	29	23	21	20	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	957.8	957.8	957.8	957.8	957.8
2.5°	958.7	957.8	953.3	957.8	957.8
5°	955.1	954.2	950.7	954.2	954.2
7.5°	950.7	949.8	946.2	949.8	949.8
10°	943.5	942.6	940.0	943.5	942.6
12.5°	934.6	934.6	930.2	934.6	932.8
15°	923.9	923.1	919.5	923.1	923.1
17.5°	910.6	909.7	907.0	911.5	909.7
20°	896.4	895.5	893.7	898.1	897.2
22.5°	879.4	879.4	876.8	882.1	882.1
25°	860.7	860.7	859.9	866.1	866.1
27.5°	842.1	840.3	840.3	846.5	847.4
30°	818.0	818.0	819.8	826.9	826.0
32.5°	794.0	794.9	798.4	804.7	805.6
35°	767.3	768.2	773.5	782.4	781.5
37.5°	738.8	741.5	747.7	757.5	757.5
40°	710.3	712.1	720.1	730.8	731.7
42.5°	678.3	682.7	691.6	704.1	702.3
45°	646.2	650.7	664.0	670.3	664.9
47.5°	612.4	617.7	631.1	632.0	614.2
50°	577.7	583.9	599.1	581.3	571.5
52.5°	537.6	549.2	562.6	537.6	531.4
55°	501.1	511.8	520.7	498.5	491.3
57.5°	460.2	474.4	468.2	457.5	448.6
60°	418.4	433.5	424.6	413.9	405.9
62.5°	375.6	392.5	383.6	373.0	365.8
65°	331.1	354.3	340.0	328.5	322.2
67.5°	289.3	311.5	294.6	285.7	279.5
70°	243.9	262.6	253.7	242.1	235.9
72.5°	199.4	213.6	211.0	198.5	194.0
75°	154.0	170.0	168.2	154.9	151.3
77.5°	115.7	130.8	125.5	114.8	110.4
80°	81.9	91.7	86.3	73.9	70.3
82.5°	49.8	57.9	49.0	41.8	38.3
85°	26.7	29.4	23.1	21.4	20.5
87.5°	9.8	9.8	9.8	8.9	8.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)