

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: P275750

Luminaire Tested: **14CZ2-44-RDP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275750  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-43)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ2-44-RDP-UNV-L83050-W2A1-U-3500K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2760.0 lumens  
Efficiency: N/A  
Efficacy: 77.5 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

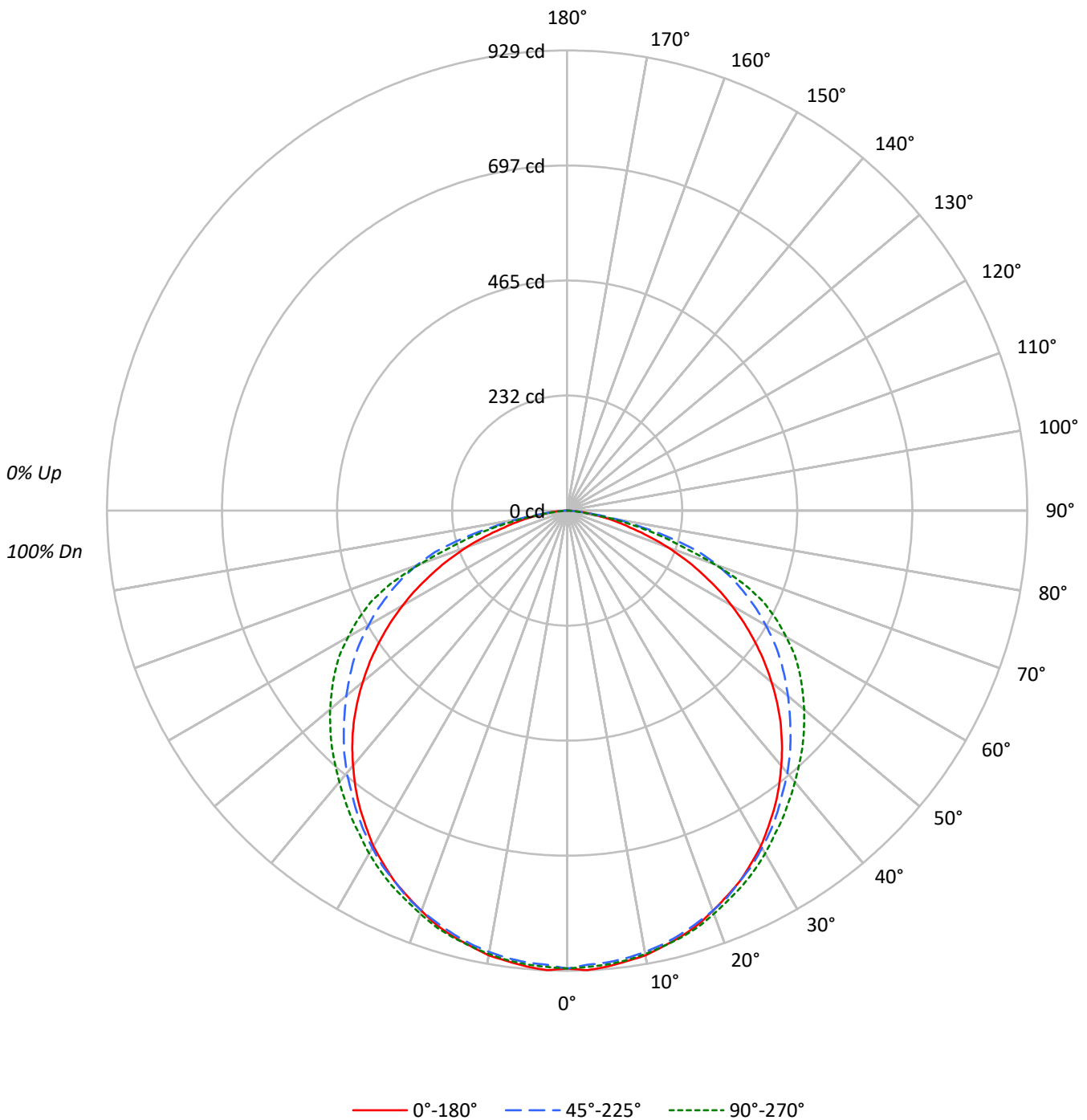
Input Watts (W): 35.619  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	94	97	94	91	93	91	88	90	88	86	84																												
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69																												
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58																												
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49																												
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42																												
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37																												
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32																												
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29																												
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26																												
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23																												

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

	0°	45°	90°
0°	2488	2488	2488
5°	2497	2474	2485
10°	2491	2473	2485
15°	2479	2467	2485
20°	2462	2462	2481
25°	2450	2450	2482
30°	2431	2444	2484
35°	2400	2435	2492
40°	2362	2430	2513
45°	2321	2427	2559
50°	2255	2436	2616
55°	2174	2467	2689
60°	2064	2493	2749
65°	1907	2525	2785
70°	1696	2543	2493
75°	1366	2285	1994
80°	1069	1602	1302
85°	732	466	333



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.5	3.2
10°-20°	251.0	9.1
20°-30°	382.2	13.8
30°-40°	465.6	16.9
40°-50°	493.9	17.9
50°-60°	466.2	16.9
60°-70°	376.4	13.6
70°-80°	204.2	7.4
80°-90°	33.0	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°	720.8	26.1
0°-40°	1186.3	43.0
0°-60°	2146.4	77.8
0°-90°	2760.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2760.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	924	924	924	924	924	
5°	924	922	916	922	920	88
15°	890	888	886	892	892	251
25°	825	823	825	834	836	380
35°	730	735	741	756	758	457
45°	610	618	638	662	672	470
55°	463	483	526	560	573	414
65°	300	336	396	429	437	297
75°	131	192	220	198	192	144
85°	24	26	15	13	11	30
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	924.4	924.4	924.4	924.4	924.4
2.5°	928.7	924.4	917.9	924.4	922.2
5°	924.4	922.2	915.8	922.2	920.1
7.5°	917.9	917.9	911.5	915.8	915.8
10°	911.5	909.3	905.0	911.5	909.3
12.5°	900.7	898.5	896.4	902.8	900.7
15°	889.9	887.8	885.6	892.1	892.1
17.5°	877.0	874.8	872.7	881.3	881.3
20°	859.8	859.8	859.8	868.4	866.2
22.5°	842.5	842.5	844.7	853.3	851.1
25°	825.3	823.1	825.3	833.9	836.0
27.5°	803.7	805.9	808.0	816.7	818.8
30°	782.2	784.3	786.5	797.3	799.4
32.5°	756.3	760.6	764.9	777.9	777.9
35°	730.5	734.8	741.2	756.3	758.5
37.5°	702.5	706.8	715.4	732.6	736.9
40°	672.3	678.8	691.7	708.9	715.4
42.5°	642.1	650.7	665.8	685.2	693.8
45°	609.8	618.4	637.8	661.5	672.3
47.5°	575.3	586.1	609.8	640.0	648.6
50°	538.7	553.8	581.8	614.1	624.9
52.5°	502.1	519.3	553.8	588.3	599.0
55°	463.3	482.7	525.8	560.2	573.2
57.5°	424.5	446.0	495.6	532.2	545.2
60°	383.5	409.4	463.3	499.9	510.7
62.5°	342.6	372.8	431.0	467.6	476.2
65°	299.5	336.1	396.5	428.8	437.4
67.5°	258.6	301.7	362.0	385.7	385.7
70°	215.5	262.9	323.2	329.7	316.8
72.5°	172.4	226.3	280.1	256.4	245.6
75°	131.4	191.8	219.8	198.2	191.8
77.5°	99.1	155.1	155.1	142.2	137.9
80°	69.0	118.5	103.4	90.5	84.0
82.5°	45.3	66.8	53.9	43.1	36.6
85°	23.7	25.9	15.1	12.9	10.8
87.5°	8.6	4.3	2.2	4.3	2.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)