

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: P275751

Luminaire Tested: **14CZ2-44-RDP-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275751  
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-4000K  
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2898.0 lumens  
Efficiency: N/A  
Efficacy: 79.5 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

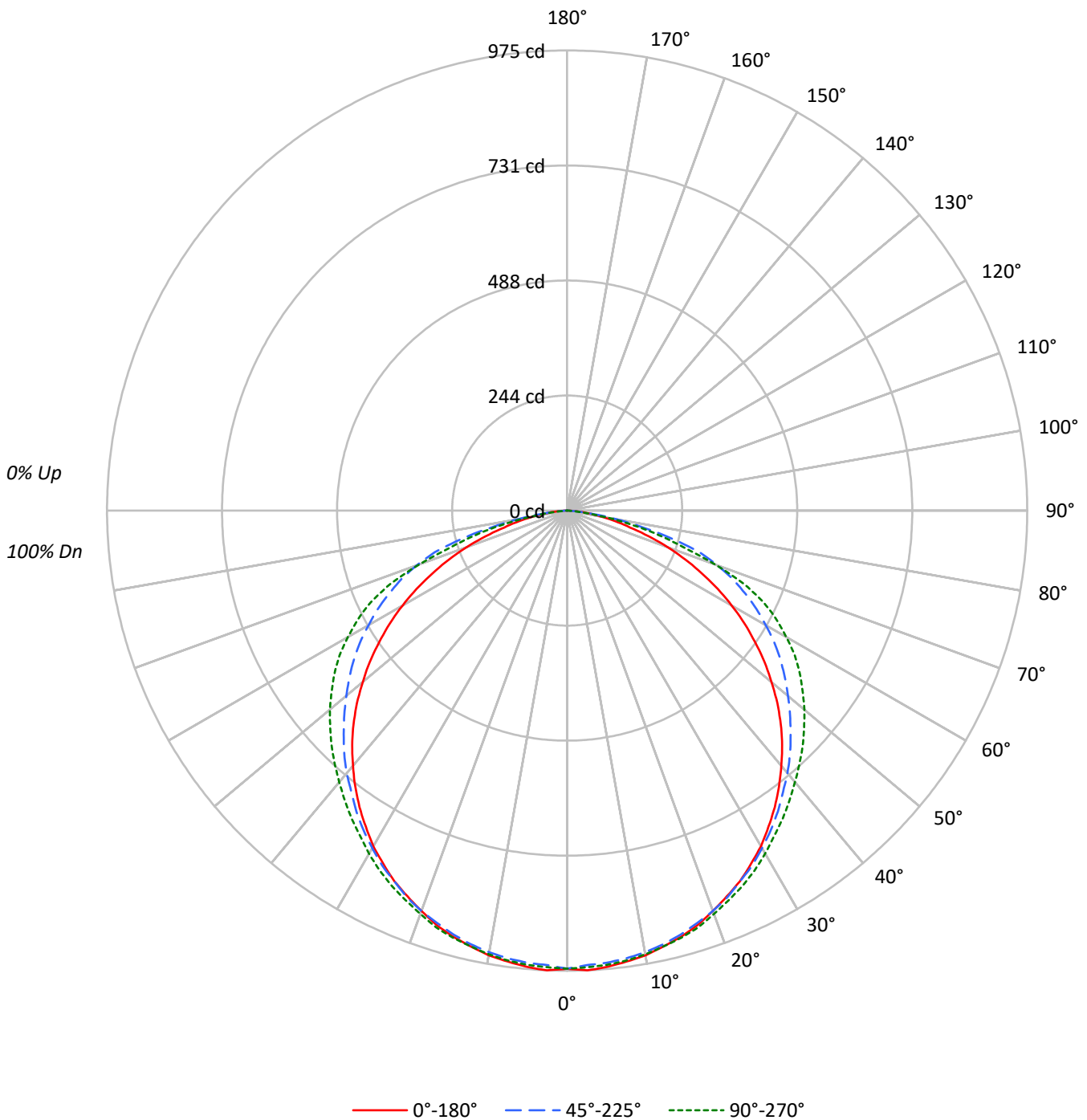
Input Watts (W): 36.456  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2612	2612	2612
5°	2622	2598	2610
10°	2615	2597	2609
15°	2603	2591	2610
20°	2585	2585	2605
25°	2573	2573	2607
30°	2552	2566	2608
35°	2520	2557	2616
40°	2480	2551	2639
45°	2437	2549	2686
50°	2368	2557	2747
55°	2282	2590	2823
60°	2167	2618	2886
65°	2003	2651	2925
70°	1781	2670	2617
75°	1435	2400	2094
80°	1122	1683	1367
85°	769	488	349



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.9	3.2
10°-20°	263.6	9.1
20°-30°	401.3	13.8
30°-40°	488.8	16.9
40°-50°	518.6	17.9
50°-60°	489.5	16.9
60°-70°	395.2	13.6
70°-80°	214.4	7.4
80°-90°	34.7	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°	756.8	26.1
0°-40°	1245.6	43.0
0°-60°	2253.7	77.8
0°-90°	2898.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2898.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	971	971	971	971	971	
5°	971	968	962	968	966	92
15°	934	932	930	937	937	264
25°	866	864	866	876	878	399
35°	767	772	778	794	796	480
45°	640	649	670	695	706	493
55°	486	507	552	588	602	435
65°	314	353	416	450	459	312
75°	138	201	231	208	201	151
85°	25	27	16	14	11	32
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	970.6	970.6	970.6	970.6	970.6
2.5°	975.1	970.6	963.8	970.6	968.4
5°	970.6	968.4	961.6	968.4	966.1
7.5°	963.8	963.8	957.0	961.6	961.6
10°	957.0	954.8	950.3	957.0	954.8
12.5°	945.7	943.5	941.2	948.0	945.7
15°	934.4	932.2	929.9	936.7	936.7
17.5°	920.8	918.6	916.3	925.4	925.4
20°	902.7	902.7	902.7	911.8	909.5
22.5°	884.6	884.6	886.9	896.0	893.7
25°	866.5	864.3	866.5	875.6	877.9
27.5°	843.9	846.2	848.4	857.5	859.8
30°	821.3	823.6	825.8	837.1	839.4
32.5°	794.1	798.7	803.2	816.8	816.8
35°	767.0	771.5	778.3	794.1	796.4
37.5°	737.6	742.1	751.2	769.3	773.8
40°	705.9	712.7	726.3	744.4	751.2
42.5°	674.2	683.3	699.1	719.5	728.5
45°	640.3	649.3	669.7	694.6	705.9
47.5°	604.1	615.4	640.3	672.0	681.0
50°	565.6	581.5	610.9	644.8	656.1
52.5°	527.2	545.3	581.5	617.7	629.0
55°	486.4	506.8	552.1	588.3	601.8
57.5°	445.7	468.3	520.4	558.8	572.4
60°	402.7	429.9	486.4	524.9	536.2
62.5°	359.7	391.4	452.5	491.0	500.0
65°	314.5	353.0	416.3	450.2	459.3
67.5°	271.5	316.8	380.1	405.0	405.0
70°	226.3	276.0	339.4	346.2	332.6
72.5°	181.0	237.6	294.1	269.2	257.9
75°	138.0	201.4	230.8	208.2	201.4
77.5°	104.1	162.9	162.9	149.3	144.8
80°	72.4	124.4	108.6	95.0	88.2
82.5°	47.5	70.1	56.6	45.3	38.5
85°	24.9	27.2	15.8	13.6	11.3
87.5°	9.1	4.5	2.3	4.5	2.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)