

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: P731923

Luminaire Tested: **14CZ2-44-RDP-B2750-W2D-3500K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P731923
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P275838)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-44-RDP-B2750-W2D-3500K
Description: 1X4 4400 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND RDP LENS

Light Source: -
Ballast/Driver: -

Summary

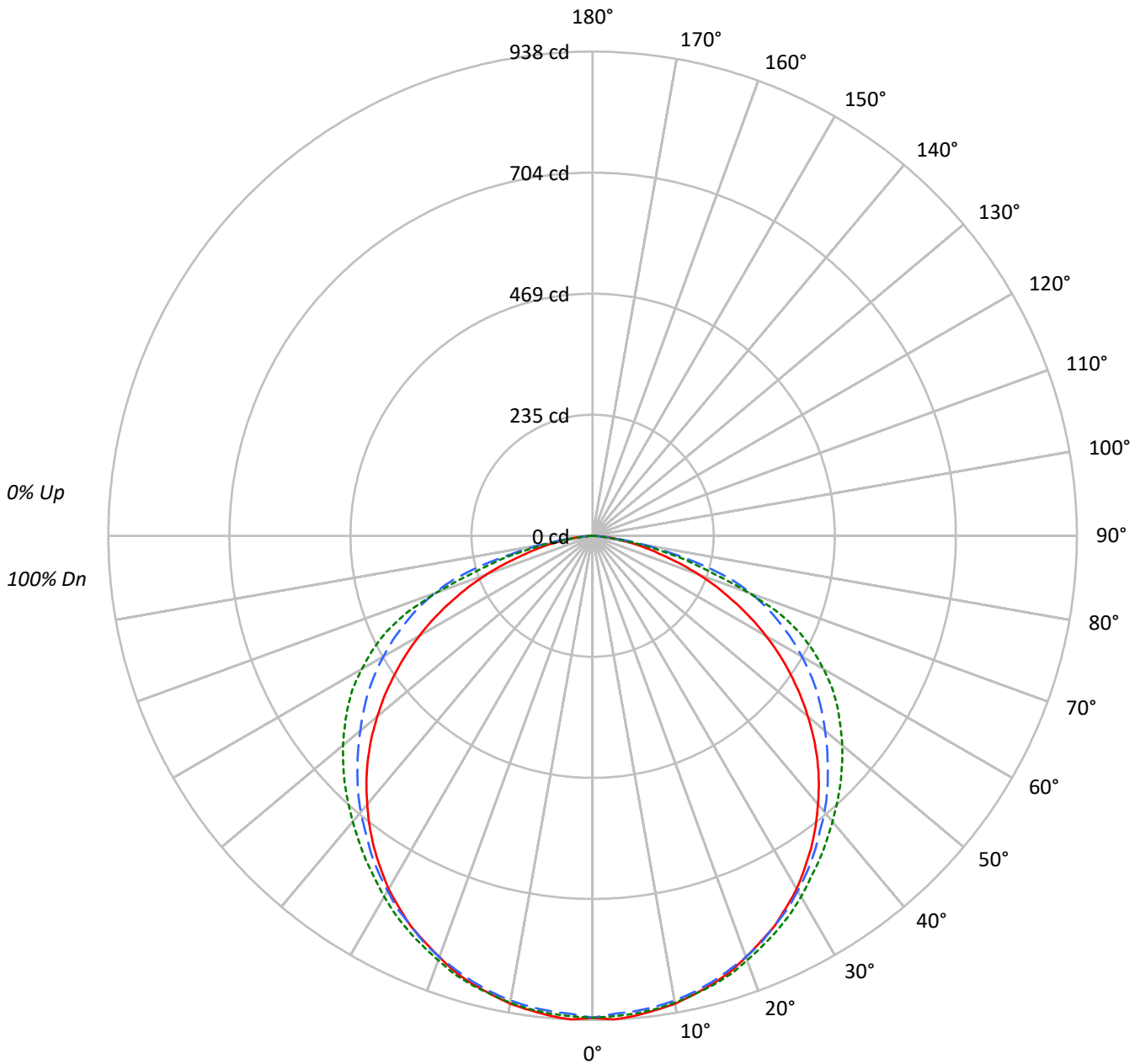
Lumens per Lamp: N/A
Luminaire Lumens: 2788.0 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 36
Input Voltage (V): NR
Input Current (A_{in}): 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	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°	2636	2636	2636
5°	2646	2621	2634
10°	2639	2621	2633
15°	2627	2614	2634
20°	2609	2609	2629
25°	2597	2597	2630
30°	2576	2590	2632
35°	2543	2581	2640
40°	2502	2575	2663
45°	2459	2572	2710
50°	2390	2581	2772
55°	2303	2614	2849
60°	2187	2642	2913
65°	2020	2675	2951
70°	1797	2695	2640
75°	1449	2421	2112
80°	1131	1700	1378
85°	777	492	353



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.4	3.2
10°-20°	253.6	9.1
20°-30°	386.1	13.8
30°-40°	470.3	16.9
40°-50°	498.9	17.9
50°-60°	470.9	16.9
60°-70°	380.2	13.6
70°-80°	206.3	7.4
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°	728.1	26.1
0°-40°	1198.4	43.0
0°-60°	2168.2	77.8
0°-90°	2788.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2788.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	934	934	934	934	934	
5°	934	932	925	932	930	89
15°	899	897	895	901	901	254
25°	834	832	834	842	844	384
35°	738	742	749	764	766	461
45°	616	625	644	668	679	474
55°	468	487	531	566	579	418
65°	302	340	400	433	442	300
75°	133	194	222	200	194	145
85°	24	26	15	13	11	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	933.8	933.8	933.8	933.8	933.8
2.5°	938.0	933.8	927.1	933.8	931.6
5°	933.8	931.6	925.0	931.6	929.5
7.5°	927.1	927.1	920.7	925.0	925.0
10°	920.7	918.6	914.3	920.7	918.6
12.5°	909.8	907.6	905.5	911.9	909.8
15°	898.8	896.7	894.6	901.2	901.2
17.5°	885.8	883.6	881.5	890.3	890.3
20°	868.4	868.4	868.4	877.2	875.1
22.5°	851.1	851.1	853.2	862.0	859.9
25°	833.7	831.6	833.7	842.3	844.4
27.5°	811.9	814.0	816.1	824.9	827.1
30°	790.2	792.4	794.5	805.5	807.6
32.5°	764.1	768.4	772.6	785.7	785.7
35°	738.0	742.2	748.9	764.1	766.2
37.5°	709.7	713.9	722.7	740.1	744.4
40°	679.0	685.7	698.7	716.1	722.7
42.5°	648.6	657.4	672.6	692.1	700.9
45°	616.0	624.6	644.3	668.3	679.0
47.5°	581.1	592.0	616.0	646.4	655.2
50°	544.3	559.5	587.7	620.3	631.2
52.5°	507.2	524.5	559.5	594.2	605.1
55°	468.0	487.4	531.2	565.9	578.9
57.5°	428.7	450.6	500.5	537.6	550.7
60°	387.4	413.5	468.0	505.0	516.0
62.5°	346.0	376.4	435.4	472.2	481.0
65°	302.5	339.6	400.5	433.3	441.8
67.5°	261.2	304.7	365.8	389.5	389.5
70°	217.7	265.5	326.6	333.0	319.9
72.5°	174.2	228.6	283.1	259.1	248.1
75°	132.9	193.7	222.0	200.4	193.7
77.5°	100.0	156.6	156.6	143.5	139.3
80°	69.6	119.8	104.6	91.5	84.8
82.5°	45.6	67.5	54.4	43.5	37.1
85°	24.0	26.1	15.2	13.1	10.9
87.5°	8.8	4.3	2.1	4.3	2.1
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)