

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: P731871

Luminaire Tested: **14CZ2-35-RDP-B2750-W2D-2700K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P731871  
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: 14CZ2-35-RDP-B2750-W2D-2700K  
Description: 1X4 3500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND RDP LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

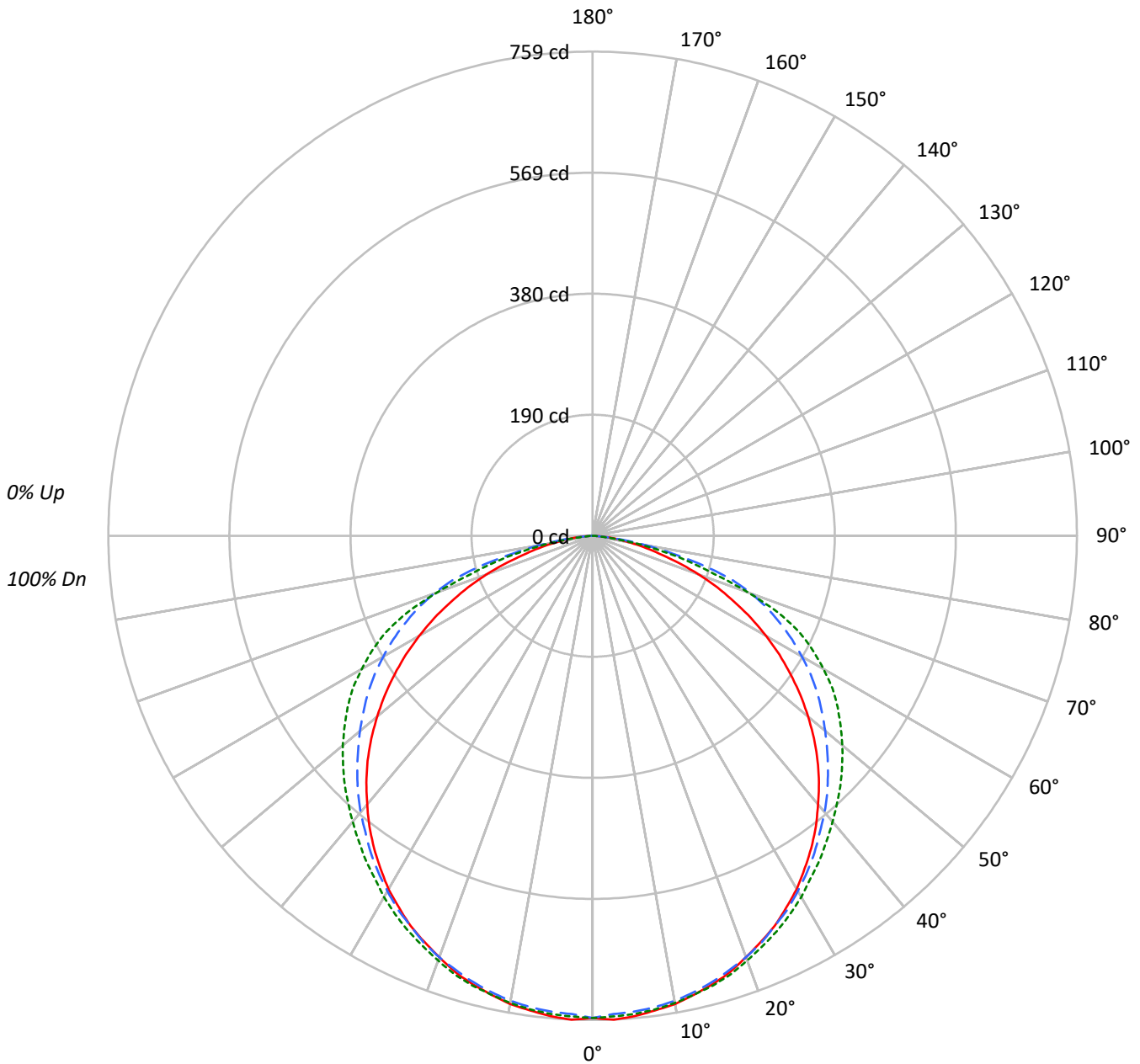
Lumens per Lamp: N/A  
Luminaire Lumens: 2257.0 lumens  
Efficiency: N/A  
Efficacy: 80.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.4  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 28  
Input Voltage (V): NR  
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	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°	2134	2134	2134
5°	2142	2122	2132
10°	2136	2122	2131
15°	2126	2116	2132
20°	2112	2112	2128
25°	2102	2102	2129
30°	2085	2096	2131
35°	2059	2089	2137
40°	2026	2084	2156
45°	1991	2082	2194
50°	1935	2089	2244
55°	1864	2116	2307
60°	1770	2138	2358
65°	1636	2165	2389
70°	1454	2182	2138
75°	1173	1960	1710
80°	917	1377	1117
85°	628	398	288



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.5	3.2
10°-20°	205.3	9.1
20°-30°	312.6	13.8
30°-40°	380.7	16.9
40°-50°	403.9	17.9
50°-60°	381.2	16.9
60°-70°	307.8	13.6
70°-80°	167.0	7.4
80°-90°	27.0	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°	589.4	26.1
0°-40°	970.1	43.0
0°-60°	1755.2	77.8
0°-90°	2257.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2257.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	756	756	756	756	756	
5°	756	754	749	754	752	72
15°	728	726	724	730	730	205
25°	675	673	675	682	684	311
35°	597	601	606	619	620	374
45°	499	506	522	541	550	384
55°	379	395	430	458	469	338
65°	245	275	324	351	358	243
75°	108	157	180	162	157	117
85°	19	21	12	11	9	25
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	755.9	755.9	755.9	755.9	755.9
2.5°	759.4	755.9	750.5	755.9	754.2
5°	755.9	754.2	748.8	754.2	752.5
7.5°	750.5	750.5	745.4	748.8	748.8
10°	745.4	743.6	740.2	745.4	743.6
12.5°	736.5	734.8	733.0	738.2	736.5
15°	727.6	725.9	724.2	729.6	729.6
17.5°	717.1	715.3	713.6	720.7	720.7
20°	703.0	703.0	703.0	710.1	708.4
22.5°	689.0	689.0	690.7	697.8	696.1
25°	674.9	673.2	674.9	681.9	683.6
27.5°	657.2	659.0	660.7	667.8	669.5
30°	639.7	641.5	643.2	652.0	653.8
32.5°	618.6	622.0	625.5	636.1	636.1
35°	597.4	600.9	606.3	618.6	620.3
37.5°	574.5	578.0	585.1	599.1	602.6
40°	549.7	555.1	565.7	579.7	585.1
42.5°	525.0	532.2	544.5	560.3	567.4
45°	498.7	505.6	521.6	541.0	549.7
47.5°	470.4	479.3	498.7	523.3	530.4
50°	440.6	452.9	475.8	502.2	511.0
52.5°	410.6	424.6	452.9	481.0	489.8
55°	378.8	394.6	430.0	458.1	468.7
57.5°	347.1	364.8	405.2	435.2	445.8
60°	313.6	334.8	378.8	408.9	417.7
62.5°	280.1	304.7	352.5	382.3	389.4
65°	244.9	274.9	324.2	350.8	357.7
67.5°	211.4	246.7	296.1	315.3	315.3
70°	176.2	214.9	264.4	269.5	259.0
72.5°	141.0	185.1	229.2	209.7	200.9
75°	107.6	156.8	179.7	162.2	156.8
77.5°	81.0	126.8	126.8	116.2	112.7
80°	56.4	97.0	84.7	74.1	68.7
82.5°	36.9	54.6	44.1	35.2	30.0
85°	19.4	21.2	12.3	10.6	8.9
87.5°	7.1	3.5	1.7	3.5	1.7
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)