

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: P842840

Luminaire Tested: **14CZ2-29-SQR-UNV-B40**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P842840  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P387389)  
Test Lab: INNOVATIONS CENTER(G2)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ2-29-SQR-UNV-B40  
Description: 1X4 2900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND SQR LENS

Light Source: -  
Ballast/Driver: -

**Summary**

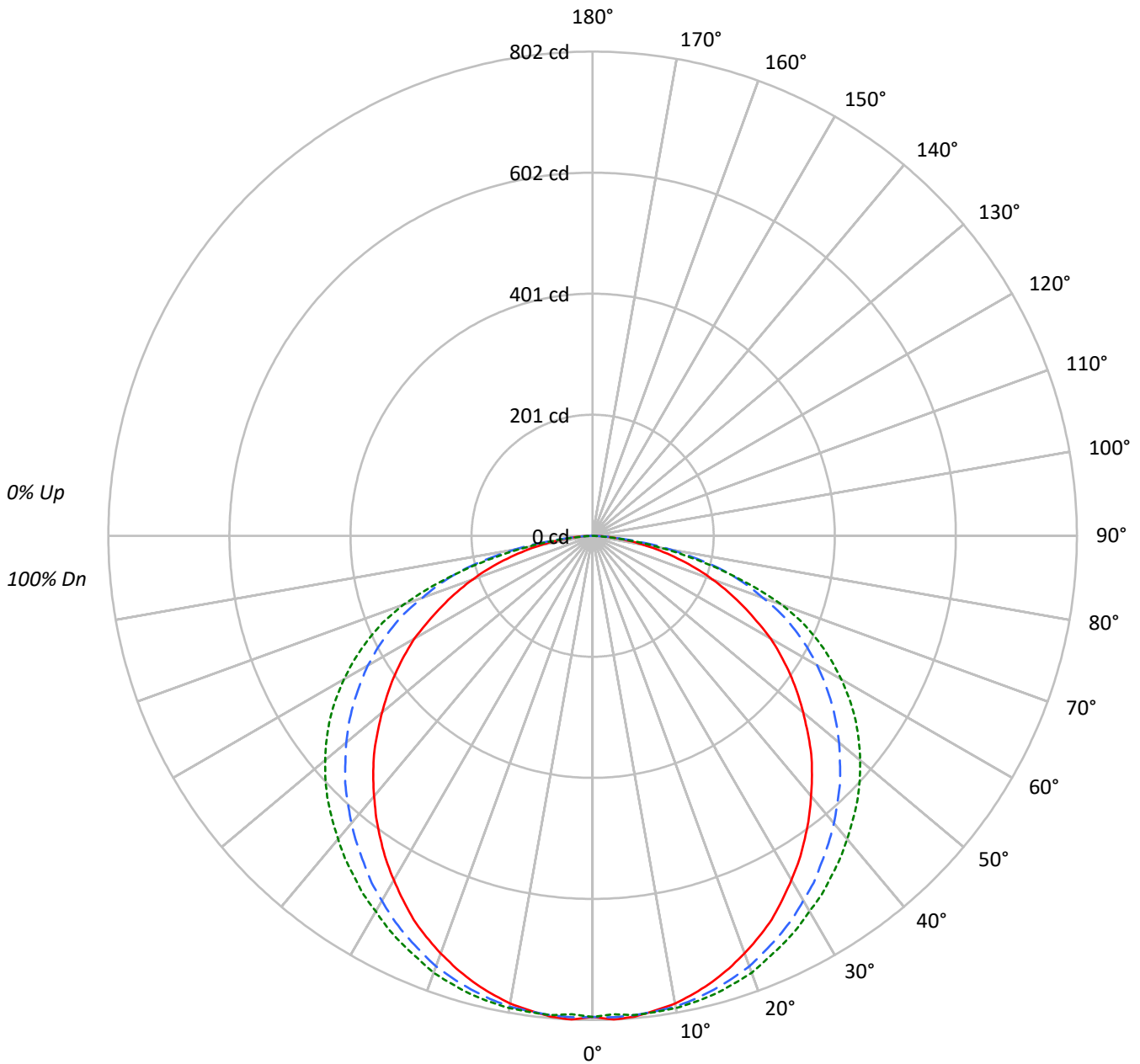
Lumens per Lamp: N/A  
Luminaire Lumens: 2522.0 lumens  
Efficiency: N/A  
Efficacy: 109.7 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44  
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 23  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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									
RC	80									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	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83																			
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68																			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56																			
4	81	68	59	52	79	67	59	52	65	57	51	62	56	51	60	54	50	48																			
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41																			
6	68	55	45	39	67	54	45	39	52	44	38	50	43	38	49	42	38	35																			
7	63	49	40	34	62	49	40	34	47	39	34	46	39	33	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	41	34	30	28																			
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25																			
10	52	38	30	25	50	37	30	24	36	29	24	36	29	24	35	29	24	22																			

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

	0°	45°	90°
0°	2250	2250	2250
5°	2265	2258	2258
10°	2255	2270	2277
15°	2236	2273	2296
20°	2211	2279	2314
25°	2185	2276	2324
30°	2146	2275	2341
35°	2111	2277	2374
40°	2075	2290	2416
45°	2045	2314	2476
50°	1998	2338	2539
55°	1964	2377	2615
60°	1923	2426	2683
65°	1833	2470	2751
70°	1741	2475	2748
75°	1594	2468	2425
80°	1362	2107	1881
85°	1072	1192	703



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.7	3.0
10°-20°	218.8	8.7
20°-30°	334.6	13.3
30°-40°	410.1	16.3
40°-50°	441.1	17.5
50°-60°	423.9	16.8
60°-70°	352.9	14.0
70°-80°	216.6	8.6
80°-90°	48.3	1.9
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°	629.1	24.9
0°-40°	1039.3	41.2
0°-60°	1904.2	75.5
0°-90°	2522.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2522.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	797	797	797	797	797	
5°	800	792	797	797	797	76
15°	765	763	778	783	786	216
25°	702	708	731	740	746	323
35°	613	628	661	679	689	383
45°	512	535	580	606	620	394
55°	399	433	483	516	531	357
65°	274	316	370	400	412	272
75°	146	191	226	225	222	155
85°	33	50	37	25	22	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	797.0	797.0	797.0	797.0	797.0
2.5°	802.0	794.4	798.3	797.0	793.2
5°	799.5	791.9	797.0	797.0	797.0
7.5°	793.2	786.8	794.4	795.7	795.7
10°	786.8	781.7	791.9	793.2	794.4
12.5°	776.6	772.8	785.6	788.1	790.5
15°	765.2	762.7	777.9	783.0	785.6
17.5°	751.3	752.5	769.0	775.4	777.9
20°	735.9	739.8	758.8	765.2	770.3
22.5°	719.4	724.5	744.9	752.5	757.6
25°	701.6	707.9	730.8	739.8	746.2
27.5°	680.0	690.2	715.7	727.1	733.5
30°	658.5	669.9	697.9	711.8	718.2
32.5°	636.8	649.5	681.3	695.3	705.5
35°	612.7	628.0	660.9	678.7	688.9
37.5°	588.5	606.3	641.9	662.2	673.6
40°	563.0	582.2	621.5	644.4	655.8
42.5°	537.7	559.3	600.0	625.4	638.0
45°	512.3	535.2	579.6	606.3	620.2
47.5°	483.1	511.0	555.4	585.9	600.0
50°	455.1	485.5	532.5	564.4	578.3
52.5°	427.1	458.9	508.4	541.5	555.4
55°	399.1	433.4	483.1	516.0	531.3
57.5°	369.8	405.4	456.3	490.6	504.6
60°	340.6	377.6	429.7	461.4	475.3
62.5°	306.3	349.6	400.5	432.2	444.8
65°	274.5	316.5	369.8	400.5	411.9
67.5°	242.8	286.0	338.1	366.1	376.2
70°	211.0	254.3	299.9	326.7	333.0
72.5°	179.3	222.4	265.7	280.9	278.4
75°	146.2	190.7	226.3	225.1	222.4
77.5°	114.5	157.6	179.3	170.3	166.6
80°	83.8	125.9	129.6	120.8	115.7
82.5°	57.2	90.2	81.4	71.2	66.0
85°	33.1	49.5	36.8	25.4	21.7
87.5°	13.9	12.7	3.9	3.9	2.5
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)