

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: P842838

Luminaire Tested: **14CZ2-29-S-UNV-B50**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842838
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P275670)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-29-S-UNV-B50
Description: 1X4 2900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Summary

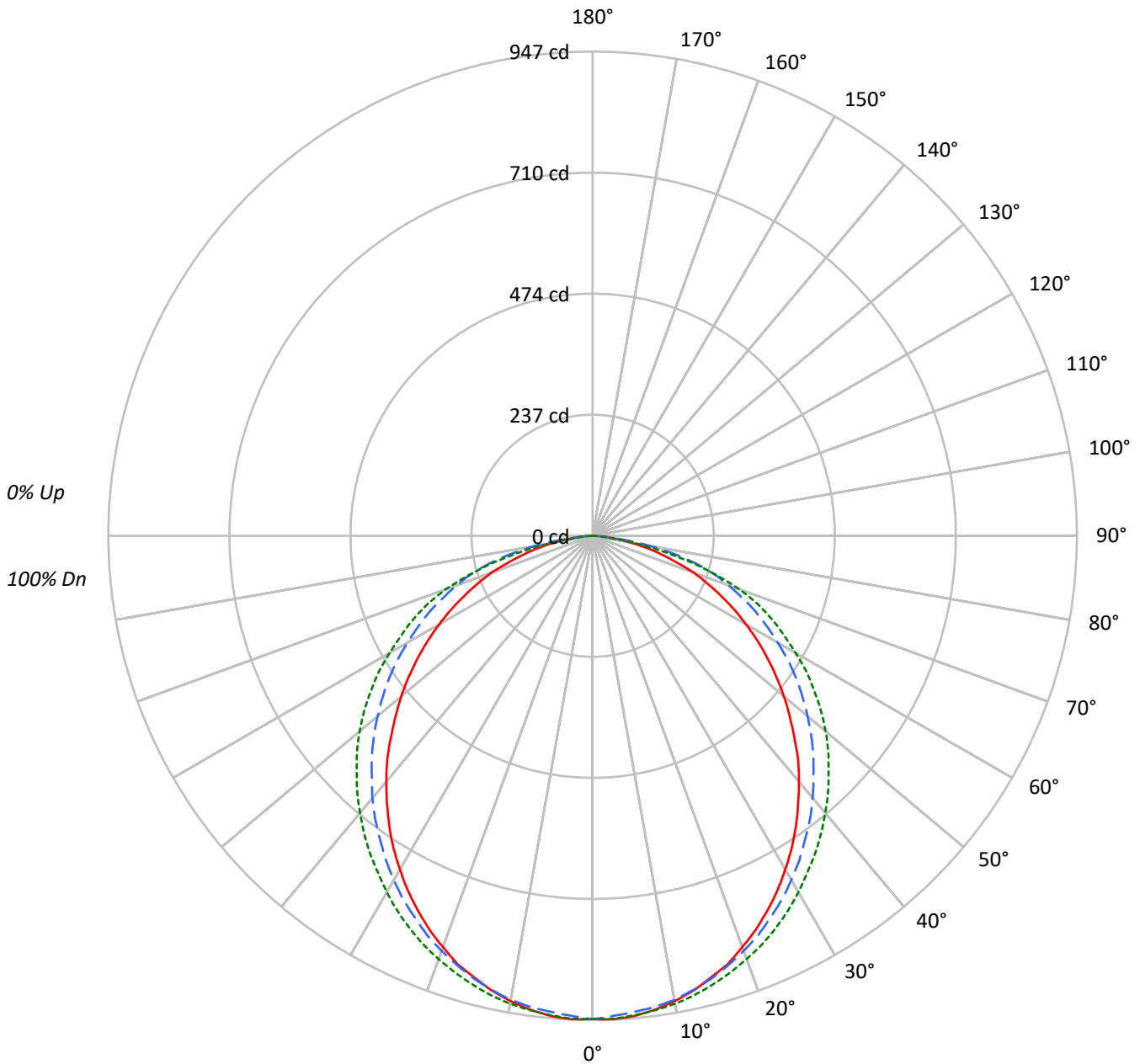
Lumens per Lamp: N/A
Luminaire Lumens: 2648.0 lumens
Efficiency: N/A
Efficacy: 115.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 23
Input Voltage (V): NR
Input Current (A_{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									
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	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84																			
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70																			
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58																			
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50																			
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43																			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38																			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33																			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30																			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27																			
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2668	2668	2668
5°	2671	2649	2667
10°	2649	2642	2664
15°	2613	2620	2655
20°	2571	2595	2646
25°	2519	2564	2637
30°	2456	2533	2623
35°	2389	2497	2615
40°	2313	2467	2608
45°	2227	2437	2605
50°	2145	2410	2612
55°	2055	2391	2604
60°	1957	2357	2587
65°	1841	2350	2587
70°	1734	2330	2513
75°	1504	2277	2147
80°	1216	1835	1430
85°	806	635	428



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.3	3.4
10°-20°	254.0	9.6
20°-30°	381.0	14.4
30°-40°	454.5	17.2
40°-50°	469.9	17.7
50°-60°	429.0	16.2
60°-70°	337.6	12.7
70°-80°	196.5	7.4
80°-90°	36.2	1.4
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°	724.3	27.4
0°-40°	1178.8	44.5
0°-60°	2077.7	78.5
0°-90°	2648.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2648.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	945	945	945	945	945	
5°	943	940	935	943	941	89
15°	894	895	897	908	908	252
25°	809	813	823	843	847	372
35°	693	702	725	752	759	433
45°	558	576	610	645	652	431
55°	418	440	486	521	529	373
65°	276	304	352	380	387	274
75°	138	171	209	205	197	147
85°	25	35	20	16	13	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	945.3	945.3	945.3	945.3	945.3
2.5°	946.6	944.0	940.0	946.6	945.3
5°	942.7	940.0	934.8	942.7	941.3
7.5°	934.8	932.1	929.5	937.4	936.1
10°	924.2	922.9	921.7	930.8	929.5
12.5°	911.2	911.2	909.9	920.4	920.4
15°	894.1	895.4	896.7	908.5	908.5
17.5°	878.4	877.1	881.0	894.1	895.4
20°	856.0	858.6	863.9	879.7	881.0
22.5°	833.7	836.4	845.6	861.3	865.2
25°	808.7	812.7	823.2	842.8	846.8
27.5°	782.5	787.8	802.1	823.2	827.1
30°	753.5	761.4	777.2	800.8	804.9
32.5°	724.7	732.6	752.3	775.9	781.2
35°	693.2	702.4	724.7	752.3	758.8
37.5°	660.4	672.1	698.5	726.0	733.9
40°	627.6	640.8	669.6	698.5	707.7
42.5°	594.8	607.9	639.3	672.1	681.5
45°	557.9	576.4	610.5	644.6	652.5
47.5°	522.5	542.3	580.3	614.4	625.0
50°	488.4	508.0	548.7	584.3	594.8
52.5°	453.0	473.9	517.2	554.1	563.2
55°	417.5	439.8	485.8	521.2	529.1
57.5°	382.1	405.7	453.0	487.1	496.3
60°	346.7	371.6	417.5	451.6	458.2
62.5°	311.1	337.4	384.7	414.9	421.5
65°	275.7	304.5	351.8	379.5	387.4
67.5°	241.6	270.4	316.4	342.7	349.3
70°	210.1	236.3	282.3	302.0	304.5
72.5°	170.7	203.5	248.1	258.7	252.1
75°	137.9	170.7	208.8	204.8	196.9
77.5°	105.1	137.9	162.8	149.6	139.2
80°	74.8	107.6	112.9	93.1	88.0
82.5°	48.6	74.8	63.1	48.6	39.4
85°	24.9	35.4	19.6	15.8	13.2
87.5°	7.9	5.3	2.6	2.6	1.3
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)