

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: P842837

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842837
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-B40
Description: 1X4 2900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Summary

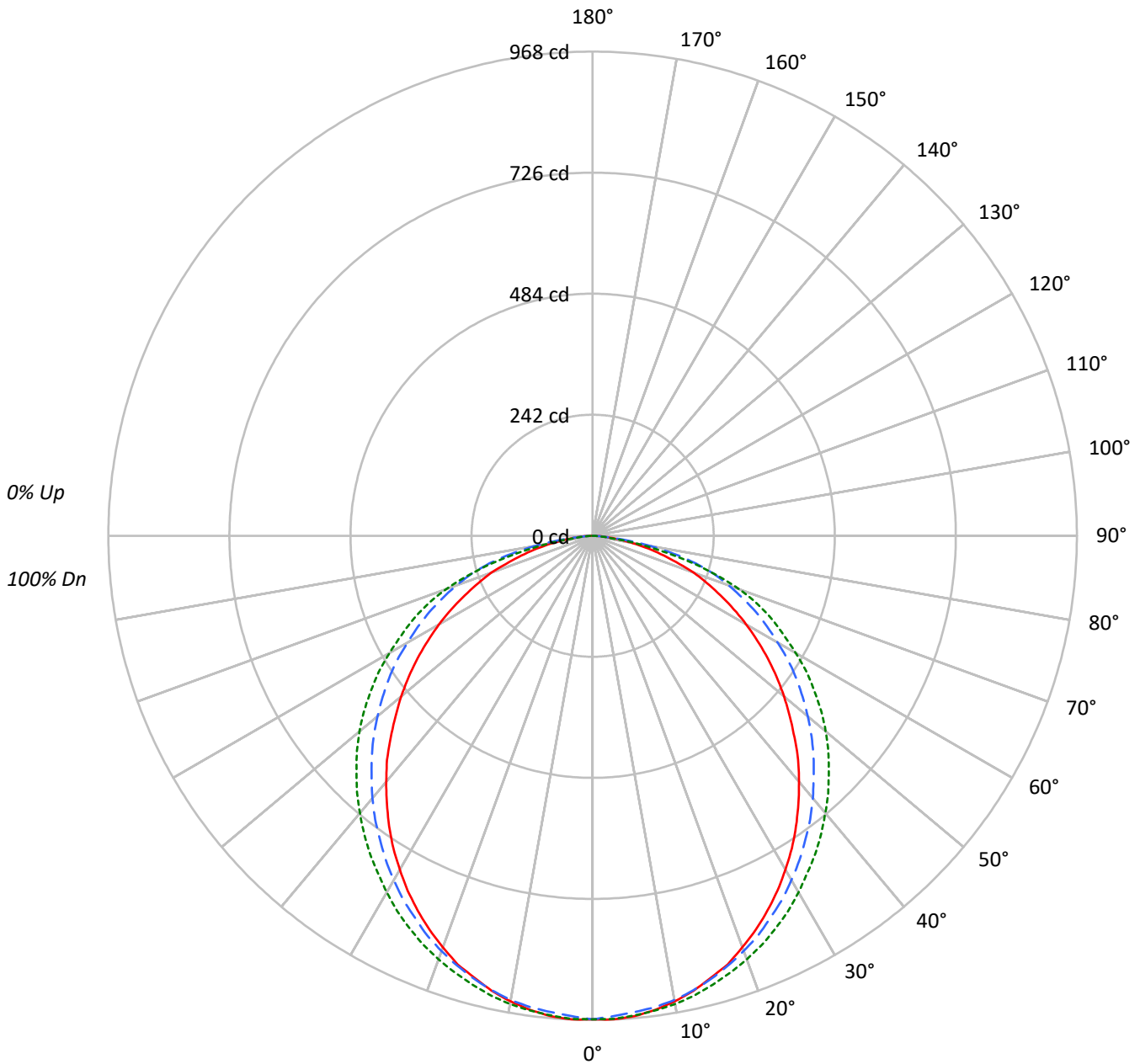
Lumens per Lamp: N/A
Luminaire Lumens: 2708.0 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P842837

CATALOG NUMBER: 14CZ2-29-S-UNV-B40

Luminous Intensity Polar Plot





TEST NUMBER: P842837

CATALOG NUMBER: 14CZ2-29-S-UNV-B40

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°	2729	2729	2729
5°	2732	2709	2727
10°	2709	2701	2725
15°	2672	2680	2715
20°	2630	2654	2706
25°	2576	2622	2697
30°	2512	2591	2683
35°	2443	2554	2674
40°	2365	2523	2667
45°	2278	2493	2664
50°	2193	2464	2671
55°	2101	2445	2663
60°	2001	2410	2645
65°	1883	2403	2646
70°	1774	2383	2570
75°	1538	2328	2196
80°	1244	1877	1463
85°	826	651	437



TEST NUMBER: P842837

CATALOG NUMBER: 14CZ2-29-S-UNV-B40

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.3	3.4
10°-20°	259.8	9.6
20°-30°	389.6	14.4
30°-40°	464.8	17.2
40°-50°	480.5	17.7
50°-60°	438.7	16.2
60°-70°	345.3	12.7
70°-80°	201.0	7.4
80°-90°	37.0	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°	740.7	27.4
0°-40°	1205.5	44.5
0°-60°	2124.7	78.5
0°-90°	2708.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2708.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	967	967	967	967	967	
5°	964	961	956	964	963	91
15°	914	916	917	929	929	258
25°	827	831	842	862	866	381
35°	709	718	741	769	776	443
45°	571	590	624	659	667	441
55°	427	450	497	533	541	382
65°	282	311	360	388	396	280
75°	141	175	214	209	201	150
85°	26	36	20	16	14	33
90°	0	0	0	0	0	



TEST NUMBER: P842837

CATALOG NUMBER: 14CZ2-29-S-UNV-B40

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	966.7	966.7	966.7	966.7	966.7
2.5°	968.0	965.4	961.3	968.0	966.7
5°	964.1	961.3	956.0	964.1	962.6
7.5°	956.0	953.2	950.6	958.7	957.3
10°	945.2	943.9	942.5	951.9	950.6
12.5°	931.8	931.8	930.5	941.2	941.2
15°	914.4	915.7	917.0	929.0	929.0
17.5°	898.3	897.0	900.9	914.4	915.7
20°	875.4	878.0	883.5	899.6	900.9
22.5°	852.5	855.3	864.7	880.8	884.8
25°	827.0	831.2	841.8	861.9	866.0
27.5°	800.2	805.7	820.3	841.8	845.8
30°	770.6	778.7	794.8	819.0	823.1
32.5°	741.2	749.2	769.3	793.5	798.9
35°	708.9	718.3	741.2	769.3	776.0
37.5°	675.4	687.4	714.3	742.5	750.5
40°	641.8	655.3	684.7	714.3	723.7
42.5°	608.2	621.7	653.8	687.4	696.9
45°	570.6	589.5	624.4	659.2	667.3
47.5°	534.4	554.6	593.4	628.3	639.2
50°	499.5	519.6	561.2	597.5	608.2
52.5°	463.3	484.7	528.9	566.6	576.0
55°	426.9	449.8	496.9	533.0	541.1
57.5°	390.7	414.9	463.3	498.2	507.5
60°	354.5	380.0	426.9	461.8	468.6
62.5°	318.2	345.0	393.4	424.3	431.0
65°	282.0	311.4	359.8	388.1	396.2
67.5°	247.1	276.6	323.6	350.4	357.2
70°	214.9	241.7	288.7	308.8	311.4
72.5°	174.6	208.1	253.7	264.5	257.8
75°	141.0	174.6	213.5	209.4	201.4
77.5°	107.4	141.0	166.5	153.0	142.3
80°	76.5	110.1	115.5	95.3	90.0
82.5°	49.7	76.5	64.5	49.7	40.3
85°	25.5	36.2	20.1	16.1	13.5
87.5°	8.1	5.4	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)