

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: P842841

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842841
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-B50
Description: 1X4 2900 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Summary

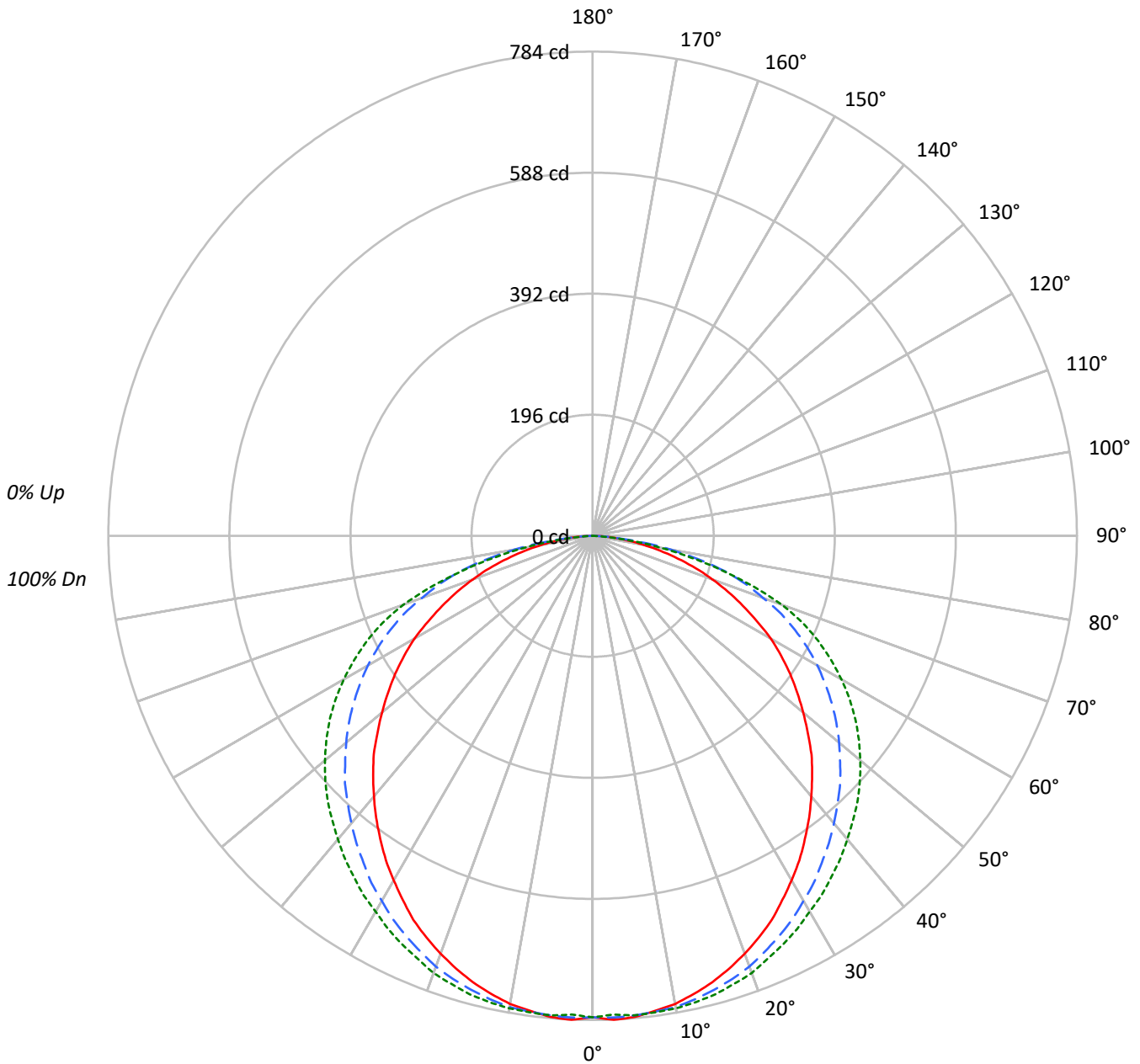
Lumens per Lamp: N/A
Luminaire Lumens: 2467.0 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 23
Input Voltage (V): NR
Input Current (A_{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: P842841

CATALOG NUMBER: 14CZ2-29-SQR-UNV-B50

Luminous Intensity Polar Plot





TEST NUMBER: P842841

CATALOG NUMBER: 14CZ2-29-SQR-UNV-B50

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	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°	2201	2201	2201
5°	2216	2209	2209
10°	2206	2220	2227
15°	2187	2224	2246
20°	2162	2230	2263
25°	2137	2227	2273
30°	2099	2225	2290
35°	2065	2228	2322
40°	2029	2240	2364
45°	2000	2263	2422
50°	1955	2287	2484
55°	1921	2325	2558
60°	1881	2373	2625
65°	1794	2416	2691
70°	1703	2421	2689
75°	1560	2415	2373
80°	1333	2061	1840
85°	1049	1166	687



TEST NUMBER: P842841

CATALOG NUMBER: 14CZ2-29-SQR-UNV-B50

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.1	3.0
10°-20°	214.0	8.7
20°-30°	327.3	13.3
30°-40°	401.2	16.3
40°-50°	431.4	17.5
50°-60°	414.6	16.8
60°-70°	345.2	14.0
70°-80°	211.9	8.6
80°-90°	47.2	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°	615.4	24.9
0°-40°	1016.6	41.2
0°-60°	1862.6	75.5
0°-90°	2467.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2467.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	780	780	780	780	780	
5°	782	775	780	780	780	74
15°	748	746	761	766	768	211
25°	686	692	715	724	730	316
35°	599	614	646	664	674	375
45°	501	524	567	593	607	386
55°	390	424	472	505	520	349
65°	269	310	362	392	403	266
75°	143	187	221	220	218	151
85°	32	48	36	25	21	39
90°	0	0	0	0	0	



TEST NUMBER: P842841

CATALOG NUMBER: 14CZ2-29-SQR-UNV-B50

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	779.7	779.7	779.7	779.7	779.7
2.5°	784.5	777.1	780.9	779.7	775.9
5°	782.1	774.7	779.7	779.7	779.7
7.5°	775.9	769.7	777.1	778.3	778.3
10°	769.7	764.7	774.7	775.9	777.1
12.5°	759.7	755.9	768.5	770.9	773.3
15°	748.5	746.1	760.9	765.9	768.5
17.5°	734.9	736.1	752.3	758.5	760.9
20°	719.9	723.7	742.3	748.5	753.5
22.5°	703.7	708.7	728.7	736.1	741.1
25°	686.3	692.5	714.9	723.7	729.9
27.5°	665.1	675.1	700.1	711.3	717.5
30°	644.1	655.3	682.7	696.3	702.5
32.5°	622.9	635.3	666.5	680.1	690.1
35°	599.3	614.3	646.5	663.9	673.9
37.5°	575.7	593.1	627.9	647.7	658.9
40°	550.7	569.5	607.9	630.3	641.5
42.5°	525.9	547.1	586.9	611.7	624.1
45°	501.1	523.5	566.9	593.1	606.7
47.5°	472.5	499.9	543.3	573.1	586.9
50°	445.1	474.9	520.9	552.1	565.7
52.5°	417.7	448.9	497.3	529.7	543.3
55°	390.4	423.9	472.5	504.7	519.7
57.5°	361.8	396.6	446.3	479.9	493.5
60°	333.2	369.3	420.3	451.3	465.0
62.5°	299.6	341.9	391.7	422.7	435.1
65°	268.6	309.6	361.8	391.7	402.9
67.5°	237.5	279.8	330.7	358.1	368.0
70°	206.4	248.7	293.4	319.6	325.8
72.5°	175.4	217.6	259.9	274.8	272.3
75°	143.0	186.6	221.4	220.1	217.6
77.5°	112.0	154.2	175.4	166.6	163.0
80°	82.0	123.2	126.8	118.2	113.2
82.5°	56.0	88.2	79.6	69.6	64.6
85°	32.4	48.4	36.0	24.8	21.2
87.5°	13.6	12.4	3.8	3.8	2.4
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)