

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: P842823

Luminaire Tested: **14CZ2-25-S-UNV-B50**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842823
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: 14CZ2-25-S-UNV-B50
Description: 1X4 2500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Summary

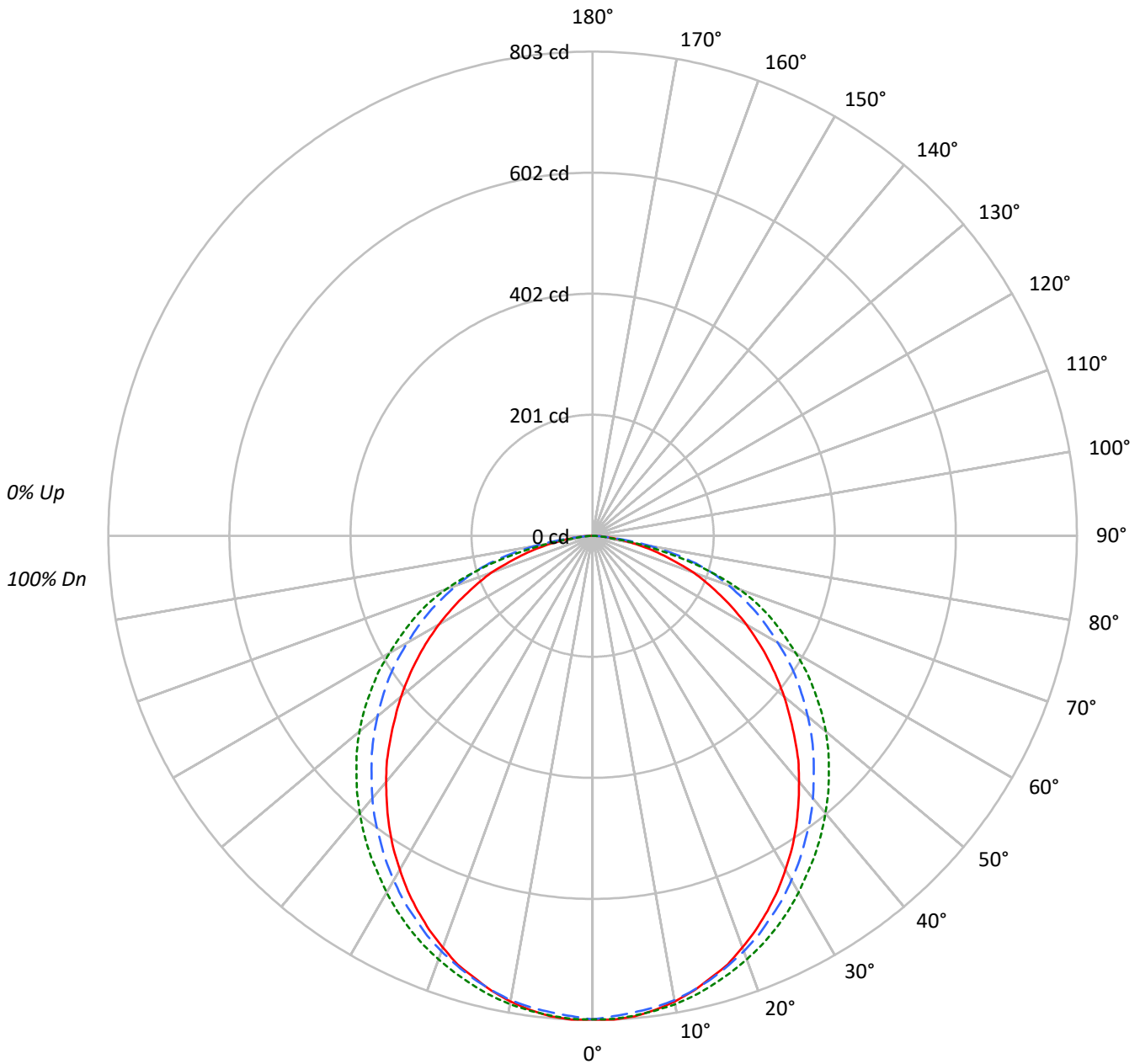
Lumens per Lamp: N/A
Luminaire Lumens: 2247.0 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 19
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°	2264	2264	2264
5°	2267	2248	2263
10°	2248	2242	2261
15°	2217	2224	2253
20°	2182	2202	2245
25°	2137	2175	2238
30°	2084	2150	2226
35°	2027	2119	2219
40°	1962	2094	2213
45°	1890	2068	2210
50°	1820	2045	2216
55°	1744	2029	2210
60°	1661	2000	2195
65°	1563	1994	2195
70°	1472	1977	2133
75°	1276	1933	1822
80°	1032	1557	1214
85°	687	541	363



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.7	3.4
10°-20°	215.5	9.6
20°-30°	323.3	14.4
30°-40°	385.7	17.2
40°-50°	398.7	17.7
50°-60°	364.0	16.2
60°-70°	286.5	12.7
70°-80°	166.8	7.4
80°-90°	30.7	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°	614.6	27.4
0°-40°	1000.3	44.5
0°-60°	1763.0	78.5
0°-90°	2247.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2247.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	802	802	802	802	802	
5°	800	798	793	800	799	76
15°	759	760	761	771	771	214
25°	686	690	698	715	719	316
35°	588	596	615	638	644	368
45°	473	489	518	547	554	366
55°	354	373	412	442	449	317
65°	234	258	299	322	329	232
75°	117	145	177	174	167	124
85°	21	30	17	13	11	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	802.1	802.1	802.1	802.1	802.1
2.5°	803.2	801.1	797.6	803.2	802.1
5°	800.0	797.6	793.3	800.0	798.7
7.5°	793.3	791.0	788.8	795.5	794.4
10°	784.3	783.2	782.1	789.9	788.8
12.5°	773.2	773.2	772.1	781.0	781.0
15°	758.7	759.8	760.9	770.9	770.9
17.5°	745.4	744.3	747.5	758.7	759.8
20°	726.4	728.6	733.1	746.5	747.5
22.5°	707.4	709.7	717.5	730.9	734.2
25°	686.2	689.7	698.5	715.2	718.6
27.5°	664.0	668.5	680.7	698.5	701.8
30°	639.4	646.1	659.5	679.6	683.0
32.5°	615.0	621.7	638.3	658.4	662.9
35°	588.2	596.0	615.0	638.3	643.9
37.5°	560.4	570.4	592.7	616.1	622.8
40°	532.5	543.7	568.2	592.7	600.5
42.5°	504.7	515.9	542.5	570.4	578.3
45°	473.4	489.1	518.1	547.0	553.7
47.5°	443.4	460.2	492.4	521.3	530.4
50°	414.5	431.1	465.6	495.8	504.7
52.5°	384.4	402.2	438.9	470.1	477.9
55°	354.3	373.2	412.3	442.3	449.0
57.5°	324.2	344.3	384.4	413.4	421.1
60°	294.2	315.3	354.3	383.2	388.8
62.5°	264.0	286.3	326.4	352.1	357.7
65°	234.0	258.4	298.6	322.0	328.7
67.5°	205.0	229.5	268.5	290.8	296.4
70°	178.3	200.5	239.6	256.2	258.4
72.5°	144.8	172.7	210.5	219.5	213.9
75°	117.0	144.8	177.2	173.8	167.1
77.5°	89.1	117.0	138.2	127.0	118.1
80°	63.5	91.3	95.8	79.0	74.7
82.5°	41.2	63.5	53.5	41.2	33.4
85°	21.2	30.0	16.7	13.4	11.2
87.5°	6.7	4.5	2.2	2.2	1.1
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)