

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: P842825

Luminaire Tested: **14CZ2-25-SQR-UNV-B40**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P842825
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: 14CZ2-25-SQR-UNV-B40
Description: 1X4 2500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Summary

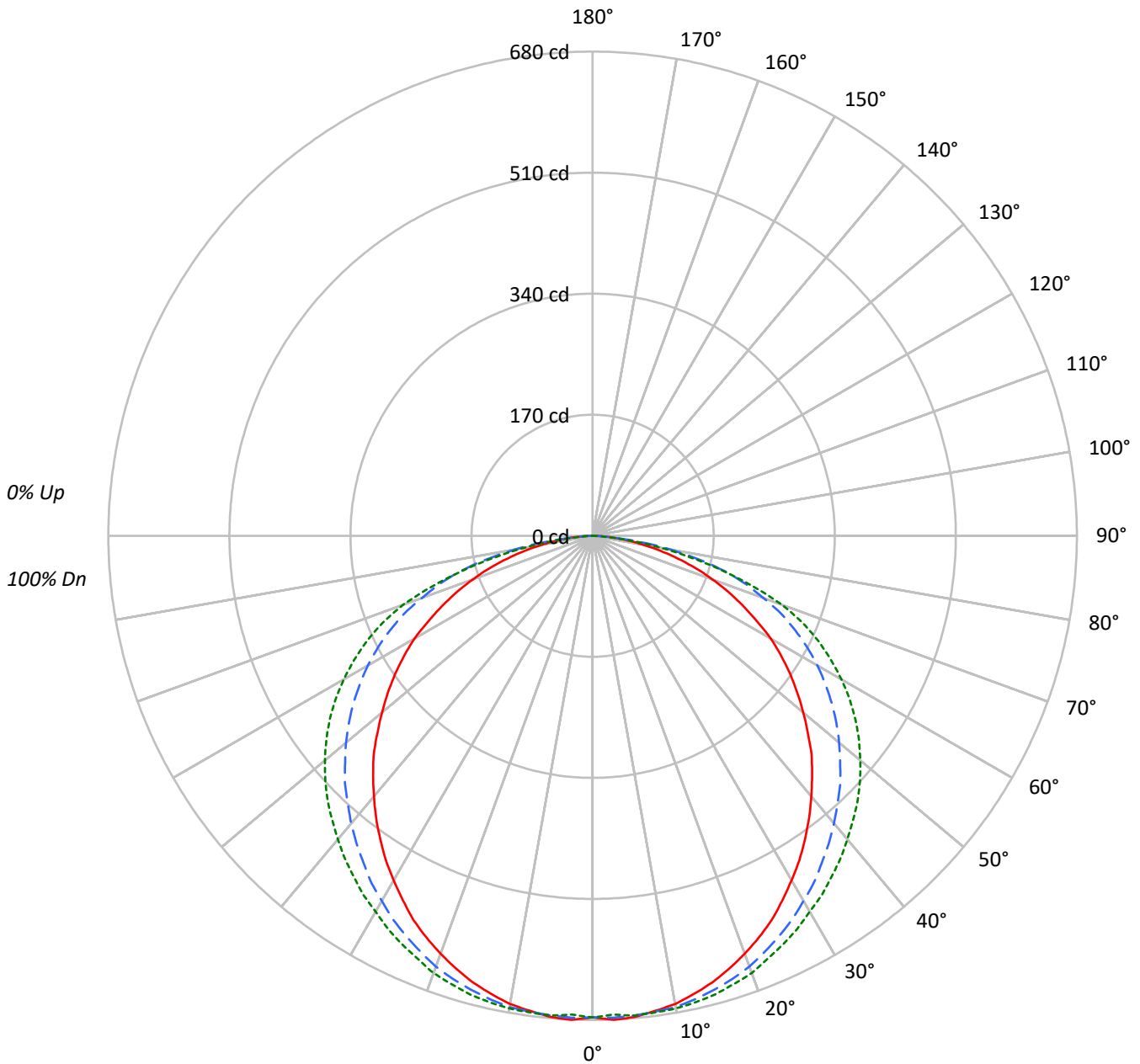
Lumens per Lamp: N/A
Luminaire Lumens: 2140.0 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.44
Luminous Opening: Rectangular (W 0.96' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	1909	1909	1909
5°	1922	1916	1916
10°	1914	1926	1932
15°	1897	1929	1948
20°	1876	1934	1963
25°	1854	1931	1972
30°	1821	1930	1986
35°	1792	1932	2014
40°	1760	1943	2051
45°	1735	1963	2101
50°	1695	1984	2155
55°	1666	2017	2218
60°	1632	2058	2277
65°	1556	2096	2334
70°	1477	2100	2332
75°	1352	2094	2058
80°	1156	1788	1596
85°	910	1010	596



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.3	3.0
10°-20°	185.6	8.7
20°-30°	283.9	13.3
30°-40°	348.0	16.3
40°-50°	374.3	17.5
50°-60°	359.7	16.8
60°-70°	299.5	14.0
70°-80°	183.8	8.6
80°-90°	40.9	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°	533.8	24.9
0°-40°	881.8	41.2
0°-60°	1615.8	75.5
0°-90°	2140.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2140.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	676	676	676	676	676	
5°	678	672	676	676	676	64
15°	649	647	660	664	667	183
25°	595	601	620	628	633	274
35°	520	533	561	576	585	325
45°	435	454	492	514	526	334
55°	339	368	410	438	451	302
65°	233	268	314	340	350	231
75°	124	162	192	191	189	131
85°	28	42	31	22	18	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	676.3	676.3	676.3	676.3	676.3
2.5°	680.5	674.1	677.4	676.3	673.0
5°	678.4	672.0	676.3	676.3	676.3
7.5°	673.0	667.7	674.1	675.1	675.1
10°	667.7	663.3	672.0	673.0	674.1
12.5°	659.0	655.7	666.6	668.7	670.8
15°	649.3	647.2	660.0	664.4	666.6
17.5°	637.5	638.5	652.6	657.9	660.0
20°	624.5	627.8	643.9	649.3	653.6
22.5°	610.4	614.8	632.1	638.5	642.8
25°	595.3	600.7	620.1	627.8	633.1
27.5°	577.0	585.6	607.3	617.0	622.4
30°	558.7	568.4	592.2	604.0	609.4
32.5°	540.3	551.1	578.1	590.0	598.6
35°	519.9	532.9	560.8	575.9	584.6
37.5°	499.4	514.5	544.7	561.9	571.6
40°	477.7	494.0	527.4	546.8	556.5
42.5°	456.2	474.6	509.1	530.6	541.4
45°	434.7	454.1	491.8	514.5	526.3
47.5°	409.9	433.6	471.3	497.2	509.1
50°	386.1	412.0	451.9	478.9	490.7
52.5°	362.4	389.4	431.4	459.5	471.3
55°	338.6	367.8	409.9	437.8	450.8
57.5°	313.8	344.0	387.2	416.3	428.1
60°	289.0	320.4	364.6	391.5	403.3
62.5°	259.9	296.6	339.8	366.7	377.5
65°	233.0	268.5	313.8	339.8	349.5
67.5°	206.1	242.7	286.9	310.7	319.2
70°	179.0	215.8	254.5	277.2	282.6
72.5°	152.1	188.7	225.5	238.3	236.2
75°	124.0	161.8	192.0	191.0	188.7
77.5°	97.1	133.7	152.1	144.5	141.4
80°	71.1	106.8	110.0	102.5	98.2
82.5°	48.6	76.5	69.0	60.4	56.0
85°	28.1	42.0	31.2	21.5	18.4
87.5°	11.8	10.8	3.3	3.3	2.1
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)