

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: P843107

Luminaire Tested: **24CZ2-50-S-UNV-B40**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P843107
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P272125)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-50-S-UNV-B40
Description: 2X4 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Summary

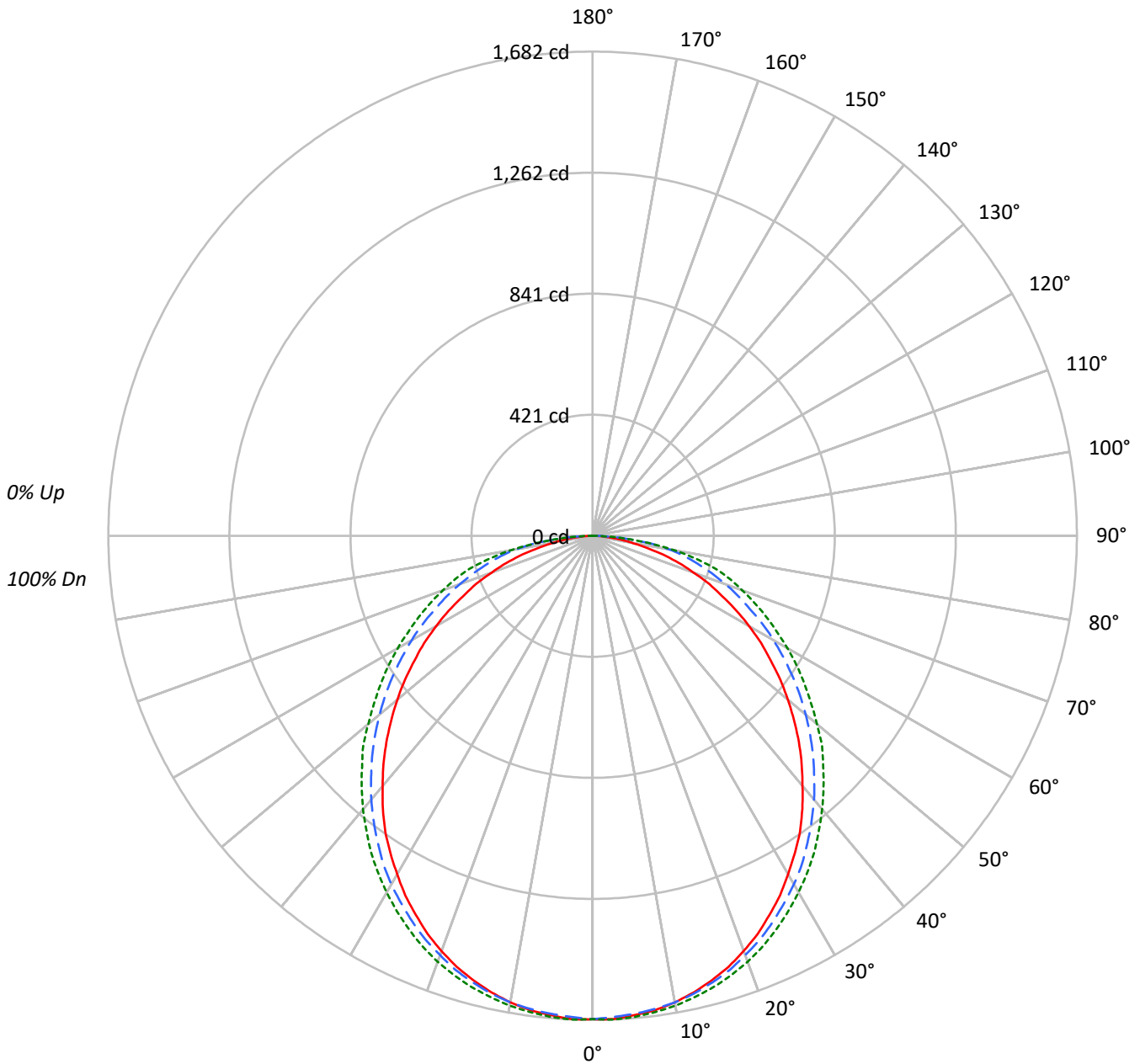
Lumens per Lamp: N/A
Luminaire Lumens: 4780.0 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 40
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					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	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	106	101	97	93	97	93	90	93	90	88	89	87	85	83								
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69								
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58								
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49								
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42								
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37								
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33								
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29								
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26								
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2370	2370	2370
5°	2368	2362	2377
10°	2359	2359	2376
15°	2336	2347	2372
20°	2305	2328	2365
25°	2263	2305	2350
30°	2212	2279	2331
35°	2163	2242	2313
40°	2090	2204	2285
45°	2021	2161	2261
50°	1944	2120	2234
55°	1857	2081	2212
60°	1770	2048	2207
65°	1658	2013	2221
70°	1535	2024	2280
75°	1375	2062	2409
80°	1111	2184	2356
85°	836	1917	1869



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.0	3.3
10°-20°	454.2	9.5
20°-30°	682.8	14.3
30°-40°	813.4	17.0
40°-50°	832.4	17.4
50°-60°	749.5	15.7
60°-70°	588.6	12.3
70°-80°	382.0	8.0
80°-90°	118.1	2.5
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°	1296.0	27.1
0°-40°	2109.4	44.1
0°-60°	3691.3	77.2
0°-90°	4780.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4780.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1679	1679	1679	1679	1679	
5°	1672	1675	1667	1676	1678	159
15°	1599	1603	1606	1620	1623	451
25°	1453	1465	1480	1505	1509	669
35°	1256	1271	1301	1333	1342	783
45°	1013	1037	1083	1124	1133	781
55°	755	788	846	890	899	677
65°	496	534	603	653	665	494
75°	252	301	378	430	442	267
85°	52	96	118	115	115	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1679.3	1679.3	1679.3	1679.3	1679.3
2.5°	1680.8	1680.8	1673.1	1680.8	1682.3
5°	1671.6	1674.8	1667.1	1676.2	1677.7
7.5°	1662.5	1662.5	1657.9	1667.1	1668.7
10°	1645.8	1647.3	1645.8	1656.5	1657.9
12.5°	1624.6	1627.6	1629.2	1639.8	1641.3
15°	1598.8	1603.4	1606.3	1620.1	1623.2
17.5°	1569.9	1574.5	1582.0	1597.2	1600.3
20°	1535.0	1541.0	1550.2	1569.9	1574.5
22.5°	1497.1	1503.2	1518.3	1536.5	1544.1
25°	1453.0	1465.1	1480.3	1504.6	1509.2
27.5°	1408.9	1419.6	1439.3	1465.1	1471.3
30°	1357.4	1374.0	1398.3	1424.1	1430.2
32.5°	1307.2	1323.9	1352.8	1380.2	1387.7
35°	1255.7	1270.8	1301.2	1333.0	1342.2
37.5°	1196.4	1216.1	1249.6	1281.4	1290.6
40°	1134.2	1158.5	1196.4	1229.9	1240.5
42.5°	1074.9	1100.7	1138.8	1175.2	1187.2
45°	1012.7	1037.0	1082.6	1123.6	1132.7
47.5°	948.9	976.3	1024.8	1065.8	1081.0
50°	885.2	914.1	965.7	1008.1	1017.3
52.5°	821.4	851.7	906.4	952.0	956.6
55°	754.6	788.1	845.7	889.8	898.9
57.5°	693.9	722.8	785.0	830.5	841.1
60°	627.1	658.9	725.7	768.3	781.9
62.5°	563.3	596.7	666.6	709.0	721.1
65°	496.5	534.5	602.8	652.9	665.0
67.5°	438.9	475.3	548.1	596.7	608.8
70°	371.9	413.1	490.4	540.6	552.6
72.5°	314.3	356.7	434.3	482.8	501.1
75°	252.1	300.6	378.1	429.7	441.8
77.5°	191.3	247.5	326.4	365.9	365.9
80°	136.7	195.9	268.7	287.0	289.9
82.5°	89.6	147.3	198.8	197.4	197.4
85°	51.6	95.7	118.4	115.4	115.4
87.5°	19.8	39.5	42.4	42.4	41.0
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)