

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: P843129

Luminaire Tested: **24CZ2-50HE-UNV-B50**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P843129
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: 24CZ2-50HE-UNV-B50
Description: 2X4 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Summary

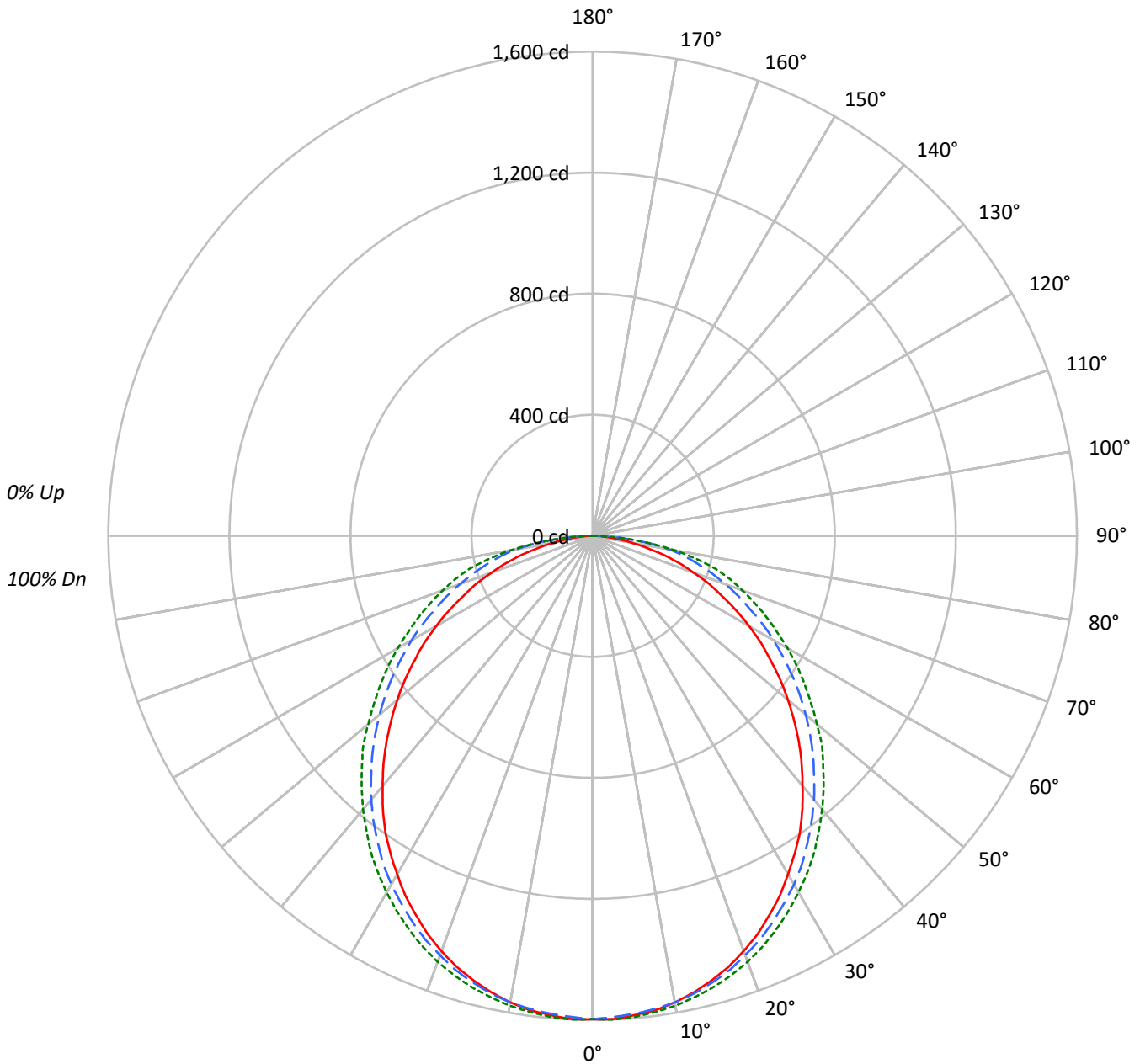
Lumens per Lamp: N/A
Luminaire Lumens: 4547.0 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 37
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°	2255	2255	2255
5°	2253	2247	2261
10°	2244	2244	2260
15°	2222	2233	2256
20°	2193	2215	2250
25°	2152	2193	2236
30°	2104	2168	2217
35°	2058	2133	2200
40°	1988	2097	2174
45°	1923	2055	2151
50°	1849	2017	2125
55°	1766	1980	2104
60°	1684	1948	2099
65°	1577	1915	2112
70°	1460	1925	2169
75°	1308	1961	2291
80°	1057	2077	2242
85°	795	1823	1778



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.2	3.3
10°-20°	432.1	9.5
20°-30°	649.5	14.3
30°-40°	773.7	17.0
40°-50°	791.9	17.4
50°-60°	712.9	15.7
60°-70°	559.9	12.3
70°-80°	363.3	8.0
80°-90°	112.4	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°	1232.9	27.1
0°-40°	2006.6	44.1
0°-60°	3511.4	77.2
0°-90°	4547.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4547.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1598	1598	1598	1598	1598	
5°	1590	1593	1586	1594	1596	151
15°	1521	1525	1528	1541	1544	429
25°	1382	1394	1408	1431	1436	637
35°	1194	1209	1238	1268	1277	745
45°	963	986	1030	1069	1078	743
55°	718	750	804	846	855	644
65°	472	508	573	621	632	470
75°	240	286	360	409	420	254
85°	49	91	113	110	110	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1597.5	1597.5	1597.5	1597.5	1597.5
2.5°	1598.9	1598.9	1591.5	1598.9	1600.2
5°	1590.2	1593.1	1585.8	1594.5	1595.9
7.5°	1581.5	1581.5	1577.1	1585.8	1587.4
10°	1565.6	1567.0	1565.6	1575.7	1577.1
12.5°	1545.4	1548.2	1549.8	1559.9	1561.3
15°	1520.9	1525.2	1528.0	1541.1	1544.0
17.5°	1493.4	1497.8	1504.9	1519.3	1522.3
20°	1460.2	1465.9	1474.6	1493.4	1497.8
22.5°	1424.1	1429.9	1444.3	1461.6	1468.9
25°	1382.2	1393.7	1408.1	1431.3	1435.6
27.5°	1340.3	1350.4	1369.2	1393.7	1399.6
30°	1291.2	1307.0	1330.2	1354.7	1360.5
32.5°	1243.5	1259.4	1286.8	1312.9	1320.1
35°	1194.4	1208.9	1237.8	1268.1	1276.8
37.5°	1138.1	1156.9	1188.7	1219.0	1227.7
40°	1078.9	1102.0	1138.1	1169.9	1180.0
42.5°	1022.5	1047.1	1083.2	1117.9	1129.4
45°	963.4	986.5	1029.8	1068.8	1077.5
47.5°	902.6	928.7	974.8	1013.8	1028.3
50°	842.1	869.6	918.6	959.0	967.7
52.5°	781.3	810.2	862.2	905.6	909.9
55°	717.8	749.7	804.5	846.4	855.1
57.5°	660.0	687.5	746.7	790.0	800.1
60°	596.5	626.8	690.3	730.9	743.7
62.5°	535.8	567.6	634.1	674.5	686.0
65°	472.3	508.5	573.4	621.1	632.5
67.5°	417.5	452.1	521.4	567.6	579.1
70°	353.8	392.9	466.5	514.2	525.7
72.5°	299.0	339.3	413.1	459.2	476.6
75°	239.8	285.9	359.7	408.8	420.2
77.5°	182.0	235.4	310.4	348.0	348.0
80°	130.0	186.4	255.6	273.0	275.8
82.5°	85.3	140.1	189.2	187.8	187.8
85°	49.1	91.0	112.6	109.8	109.8
87.5°	18.8	37.6	40.4	40.4	39.0
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)