

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: P843121

Luminaire Tested: **24CZ2-50HE-S-UNV-B35**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P843121
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-S-UNV-B35
Description: 2X4 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Summary

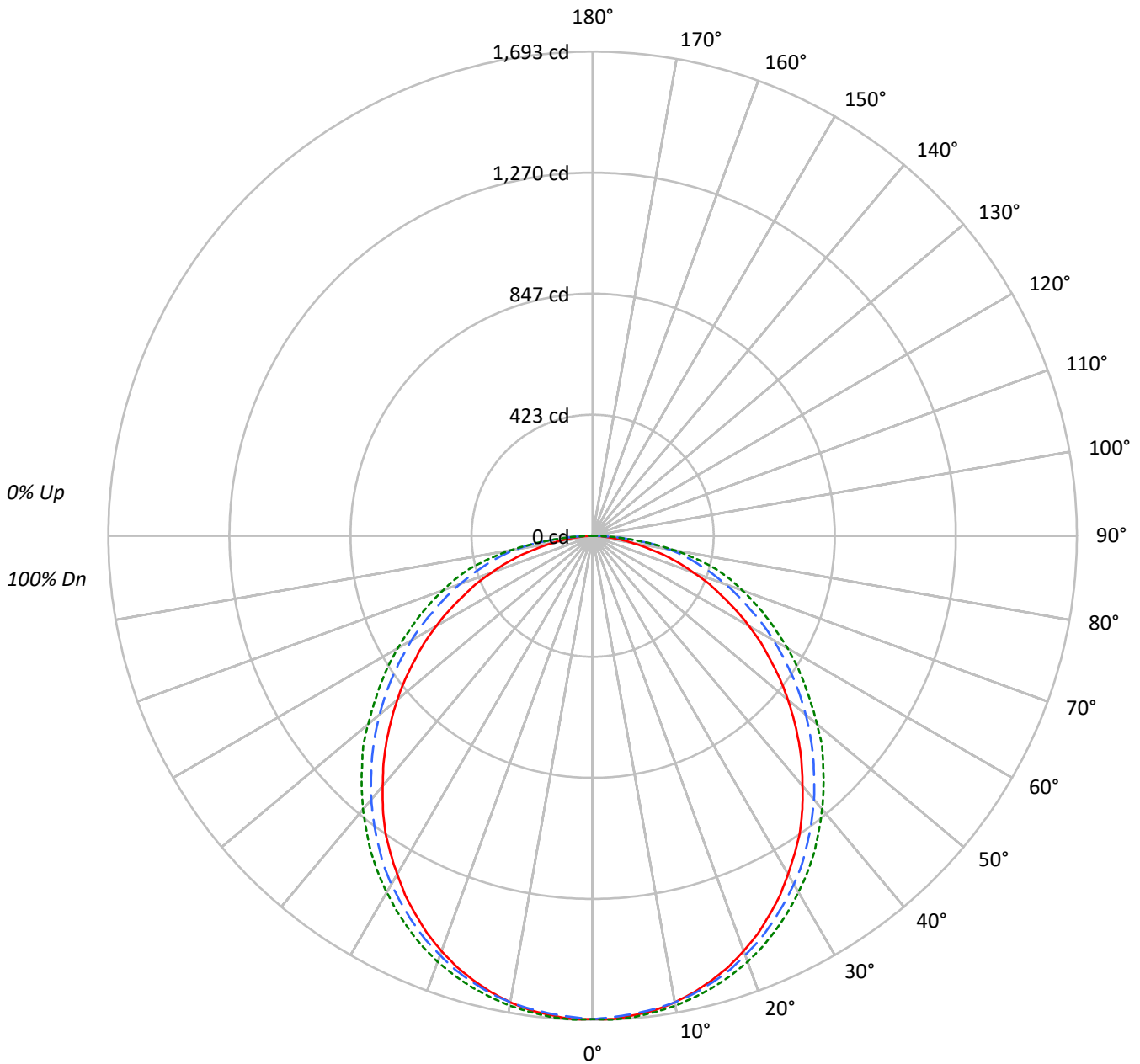
Lumens per Lamp: N/A
Luminaire Lumens: 4811.0 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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°	2385	2385	2385
5°	2384	2377	2392
10°	2374	2374	2391
15°	2351	2362	2387
20°	2320	2343	2380
25°	2277	2320	2365
30°	2226	2294	2346
35°	2177	2256	2328
40°	2103	2218	2300
45°	2034	2175	2276
50°	1956	2134	2248
55°	1869	2094	2226
60°	1782	2062	2221
65°	1669	2026	2235
70°	1545	2037	2295
75°	1383	2075	2424
80°	1118	2199	2372
85°	840	1929	1882



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.0	3.3
10°-20°	457.2	9.5
20°-30°	687.3	14.3
30°-40°	818.6	17.0
40°-50°	837.8	17.4
50°-60°	754.3	15.7
60°-70°	592.4	12.3
70°-80°	384.4	8.0
80°-90°	118.9	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°	1304.5	27.1
0°-40°	2123.1	44.1
0°-60°	3715.3	77.2
0°-90°	4811.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4811.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1690	1690	1690	1690	1690	
5°	1682	1686	1678	1687	1689	160
15°	1609	1614	1617	1631	1634	454
25°	1462	1475	1490	1514	1519	674
35°	1264	1279	1310	1342	1351	788
45°	1019	1044	1090	1131	1140	786
55°	760	793	851	896	905	681
65°	500	538	607	657	669	497
75°	254	302	381	432	445	268
85°	52	96	119	116	116	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1690.2	1690.2	1690.2	1690.2	1690.2
2.5°	1691.7	1691.7	1684.0	1691.7	1693.2
5°	1682.5	1685.6	1677.9	1687.1	1688.6
7.5°	1673.3	1673.3	1668.7	1677.9	1679.5
10°	1656.5	1658.0	1656.5	1667.2	1668.7
12.5°	1635.2	1638.1	1639.8	1650.4	1651.9
15°	1609.2	1613.8	1616.8	1630.6	1633.7
17.5°	1580.1	1584.7	1592.3	1607.5	1610.7
20°	1544.9	1551.0	1560.2	1580.1	1584.7
22.5°	1506.8	1512.9	1528.2	1546.4	1554.2
25°	1462.5	1474.6	1489.9	1514.4	1519.0
27.5°	1418.1	1428.8	1448.7	1474.6	1480.9
30°	1366.2	1382.9	1407.4	1433.4	1439.4
32.5°	1315.7	1332.5	1361.6	1389.2	1396.7
35°	1263.8	1279.1	1309.6	1341.7	1350.9
37.5°	1204.1	1224.0	1257.7	1289.8	1299.0
40°	1141.5	1166.0	1204.1	1237.8	1248.5
42.5°	1081.9	1107.8	1146.1	1182.8	1194.9
45°	1019.3	1043.8	1089.6	1130.9	1140.1
47.5°	955.0	982.6	1031.4	1072.7	1088.0
50°	891.0	920.0	972.0	1014.7	1023.9
52.5°	826.7	857.3	912.3	958.2	962.8
55°	759.5	793.2	851.2	895.6	904.8
57.5°	698.4	727.5	790.1	835.9	846.6
60°	631.2	663.2	730.4	773.3	786.9
62.5°	566.9	600.6	670.9	713.6	725.8
65°	499.7	538.0	606.7	657.1	669.3
67.5°	441.7	478.3	551.6	600.6	612.7
70°	374.3	415.7	493.6	544.1	556.2
72.5°	316.3	359.0	437.1	485.9	504.3
75°	253.7	302.5	380.6	432.5	444.6
77.5°	192.6	249.1	328.5	368.2	368.2
80°	137.5	197.2	270.5	288.9	291.8
82.5°	90.2	148.2	200.1	198.7	198.7
85°	51.9	96.3	119.1	116.2	116.2
87.5°	19.9	39.8	42.7	42.7	41.2
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)