

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: P843128

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P843128
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-B40
Description: 2X4 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Summary

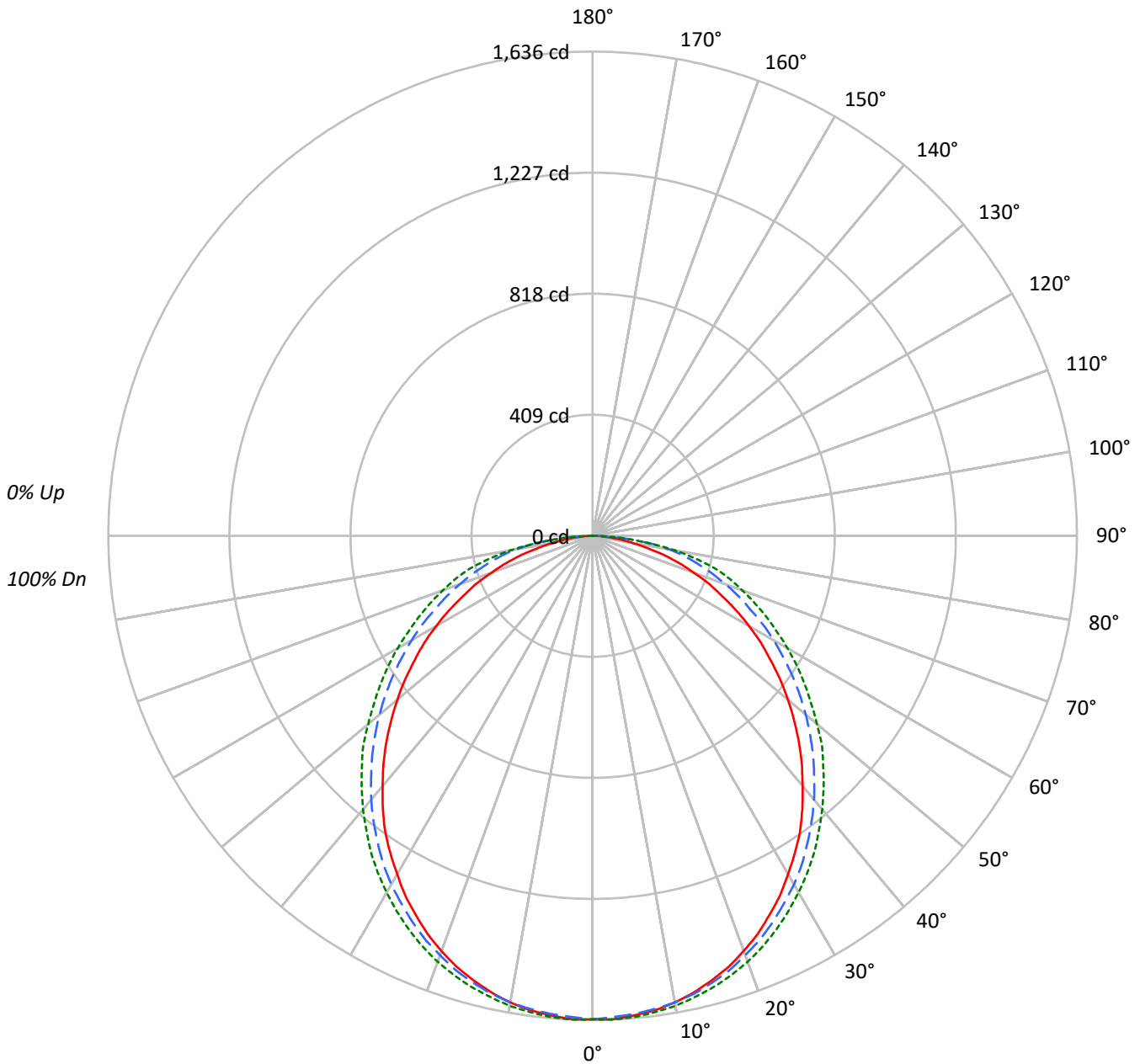
Lumens per Lamp: N/A
Luminaire Lumens: 4650.0 lumens
Efficiency: N/A
Efficacy: 125.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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									
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	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°	2306	2306	2306
5°	2304	2298	2312
10°	2295	2295	2311
15°	2273	2283	2307
20°	2243	2265	2300
25°	2201	2242	2286
30°	2152	2217	2267
35°	2105	2181	2250
40°	2033	2144	2223
45°	1966	2102	2199
50°	1891	2063	2173
55°	1806	2024	2152
60°	1722	1993	2147
65°	1613	1958	2160
70°	1493	1969	2218
75°	1337	2006	2344
80°	1080	2125	2293
85°	813	1864	1819



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.6	3.3
10°-20°	441.9	9.5
20°-30°	664.3	14.3
30°-40°	791.2	17.0
40°-50°	809.8	17.4
50°-60°	729.1	15.7
60°-70°	572.6	12.3
70°-80°	371.6	8.0
80°-90°	114.9	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°	1260.8	27.1
0°-40°	2052.0	44.1
0°-60°	3590.9	77.2
0°-90°	4650.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4650.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1634	1634	1634	1634	1634	
5°	1626	1629	1622	1631	1632	155
15°	1555	1560	1563	1576	1579	439
25°	1414	1425	1440	1464	1468	651
35°	1222	1236	1266	1297	1306	762
45°	985	1009	1053	1093	1102	760
55°	734	767	823	866	874	658
65°	483	520	586	635	647	481
75°	245	292	368	418	430	259
85°	50	93	115	112	112	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1633.7	1633.7	1633.7	1633.7	1633.7
2.5°	1635.1	1635.1	1627.6	1635.1	1636.5
5°	1626.2	1629.2	1621.7	1630.6	1632.0
7.5°	1617.3	1617.3	1612.8	1621.7	1623.3
10°	1601.1	1602.5	1601.1	1611.4	1612.8
12.5°	1580.4	1583.3	1584.9	1595.2	1596.6
15°	1555.4	1559.8	1562.6	1576.0	1579.0
17.5°	1527.2	1531.7	1539.0	1553.7	1556.8
20°	1493.2	1499.1	1508.0	1527.2	1531.7
22.5°	1456.4	1462.3	1477.0	1494.7	1502.1
25°	1413.5	1425.3	1440.0	1463.7	1468.2
27.5°	1370.6	1381.0	1400.2	1425.3	1431.3
30°	1320.4	1336.6	1360.3	1385.4	1391.3
32.5°	1271.7	1287.9	1316.0	1342.7	1350.0
35°	1221.5	1236.3	1265.8	1296.8	1305.7
37.5°	1163.8	1183.1	1215.6	1246.6	1255.5
40°	1103.3	1127.0	1163.8	1196.4	1206.7
42.5°	1045.7	1070.8	1107.8	1143.2	1154.9
45°	985.2	1008.8	1053.2	1093.0	1101.9
47.5°	923.1	949.8	996.9	1036.8	1051.6
50°	861.1	889.3	939.4	980.7	989.6
52.5°	799.0	828.6	881.8	926.1	930.5
55°	734.1	766.6	822.7	865.6	874.5
57.5°	675.0	703.1	763.6	807.9	818.2
60°	610.0	641.0	706.0	747.4	760.6
62.5°	547.9	580.5	648.5	689.8	701.5
65°	483.0	520.0	586.4	635.1	646.9
67.5°	426.9	462.3	533.2	580.5	592.2
70°	361.8	401.8	477.1	525.9	537.6
72.5°	305.7	347.0	422.5	469.6	487.4
75°	245.2	292.4	367.8	418.0	429.8
77.5°	186.1	240.8	317.5	355.9	355.9
80°	132.9	190.6	261.4	279.2	282.1
82.5°	87.2	143.3	193.4	192.0	192.0
85°	50.2	93.1	115.1	112.3	112.3
87.5°	19.2	38.4	41.3	41.3	39.9
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)