

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: P843108

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P843108
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-B50
Description: 2X4 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Summary

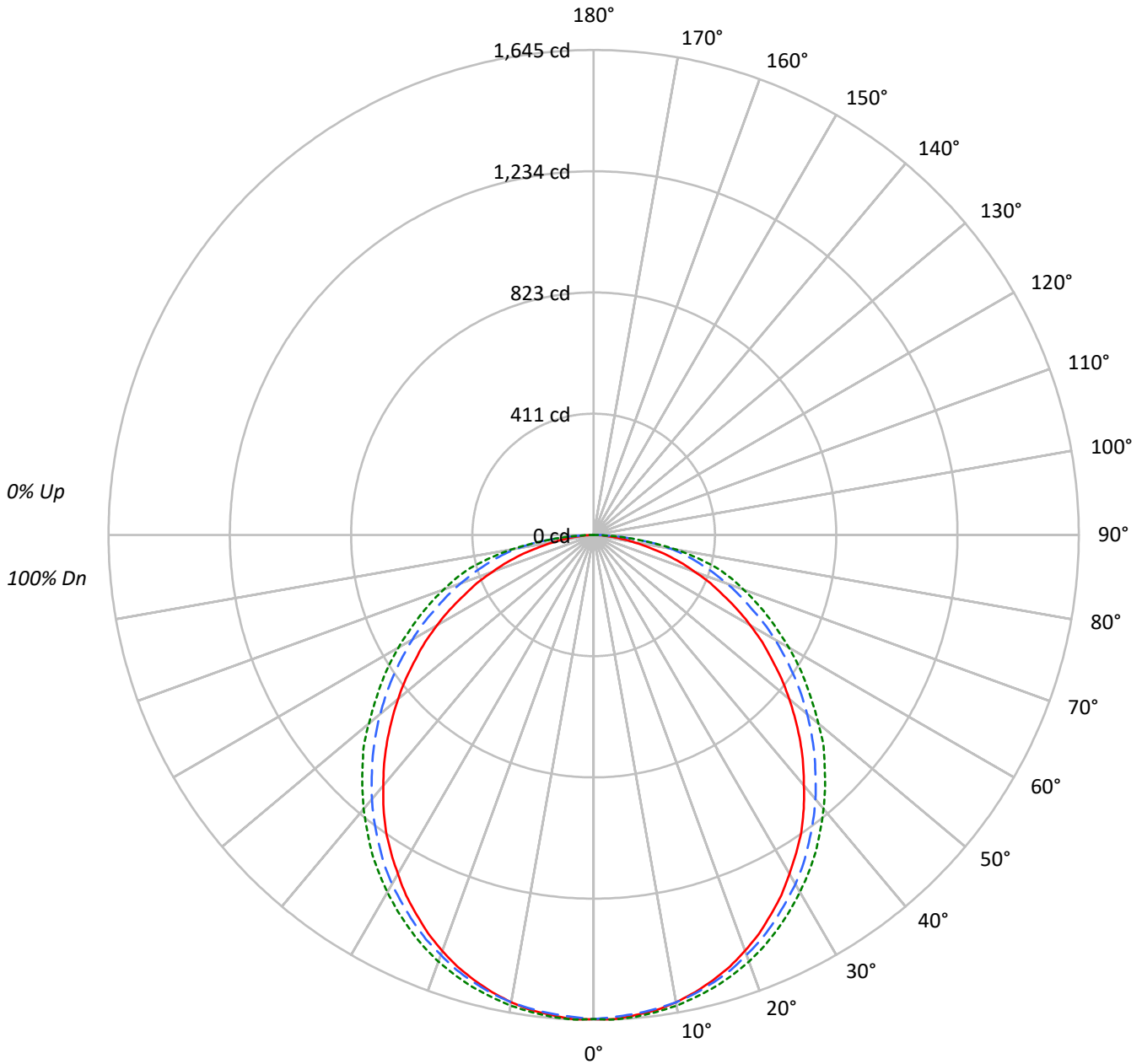
Lumens per Lamp: N/A
Luminaire Lumens: 4675.0 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	2318	2318	2318
5°	2316	2310	2325
10°	2307	2307	2324
15°	2285	2295	2320
20°	2255	2277	2313
25°	2213	2255	2298
30°	2163	2229	2280
35°	2116	2193	2262
40°	2044	2156	2235
45°	1977	2113	2211
50°	1901	2074	2184
55°	1816	2035	2163
60°	1731	2004	2159
65°	1622	1969	2172
70°	1501	1979	2230
75°	1344	2017	2356
80°	1086	2136	2305
85°	818	1875	1828



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.5	3.3
10°-20°	444.3	9.5
20°-30°	667.8	14.3
30°-40°	795.5	17.0
40°-50°	814.2	17.4
50°-60°	733.0	15.7
60°-70°	575.6	12.3
70°-80°	373.6	8.0
80°-90°	115.5	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°	1267.6	27.1
0°-40°	2063.1	44.1
0°-60°	3610.2	77.2
0°-90°	4675.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4675.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1642	1642	1642	1642	1642	
5°	1635	1638	1630	1639	1641	155
15°	1564	1568	1571	1584	1588	441
25°	1421	1433	1448	1472	1476	655
35°	1228	1243	1273	1304	1313	766
45°	990	1014	1059	1099	1108	764
55°	738	771	827	870	879	662
65°	486	523	590	638	650	483
75°	246	294	370	420	432	261
85°	50	94	116	113	113	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1642.4	1642.4	1642.4	1642.4	1642.4
2.5°	1643.9	1643.9	1636.4	1643.9	1645.3
5°	1634.9	1638.0	1630.4	1639.4	1640.8
7.5°	1626.0	1626.0	1621.5	1630.4	1632.1
10°	1609.7	1611.1	1609.7	1620.1	1621.5
12.5°	1588.9	1591.8	1593.4	1603.8	1605.2
15°	1563.7	1568.2	1571.0	1584.5	1587.5
17.5°	1535.4	1539.9	1547.3	1562.1	1565.1
20°	1501.3	1507.2	1516.1	1535.4	1539.9
22.5°	1464.2	1470.1	1485.0	1502.7	1510.2
25°	1421.1	1432.9	1447.8	1471.6	1476.0
27.5°	1378.0	1388.4	1407.7	1432.9	1439.0
30°	1327.5	1343.8	1367.6	1392.8	1398.8
32.5°	1278.5	1294.8	1323.1	1349.9	1357.2
35°	1228.1	1242.9	1272.6	1303.7	1312.7
37.5°	1170.1	1189.4	1222.2	1253.3	1262.2
40°	1109.3	1133.1	1170.1	1202.8	1213.2
42.5°	1051.3	1076.5	1113.7	1149.3	1161.2
45°	990.5	1014.3	1058.8	1098.9	1107.8
47.5°	928.0	954.9	1002.3	1042.4	1057.2
50°	865.8	894.0	944.5	986.0	994.9
52.5°	803.3	833.0	886.5	931.1	935.5
55°	738.0	770.8	827.1	870.2	879.2
57.5°	678.6	706.9	767.7	812.3	822.6
60°	613.3	644.4	709.8	751.4	764.7
62.5°	550.9	583.6	652.0	693.5	705.3
65°	485.6	522.8	589.5	638.5	650.4
67.5°	429.2	464.8	536.0	583.6	595.4
70°	363.7	404.0	479.7	528.7	540.5
72.5°	307.4	348.9	424.7	472.2	490.0
75°	246.5	294.0	369.8	420.3	432.1
77.5°	187.1	242.1	319.2	357.8	357.8
80°	133.6	191.6	262.8	280.7	283.6
82.5°	87.7	144.0	194.5	193.0	193.0
85°	50.5	93.6	115.8	112.9	112.9
87.5°	19.3	38.6	41.5	41.5	40.1
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)