

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: P843127

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P843127
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-B35
Description: 2X4 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Summary

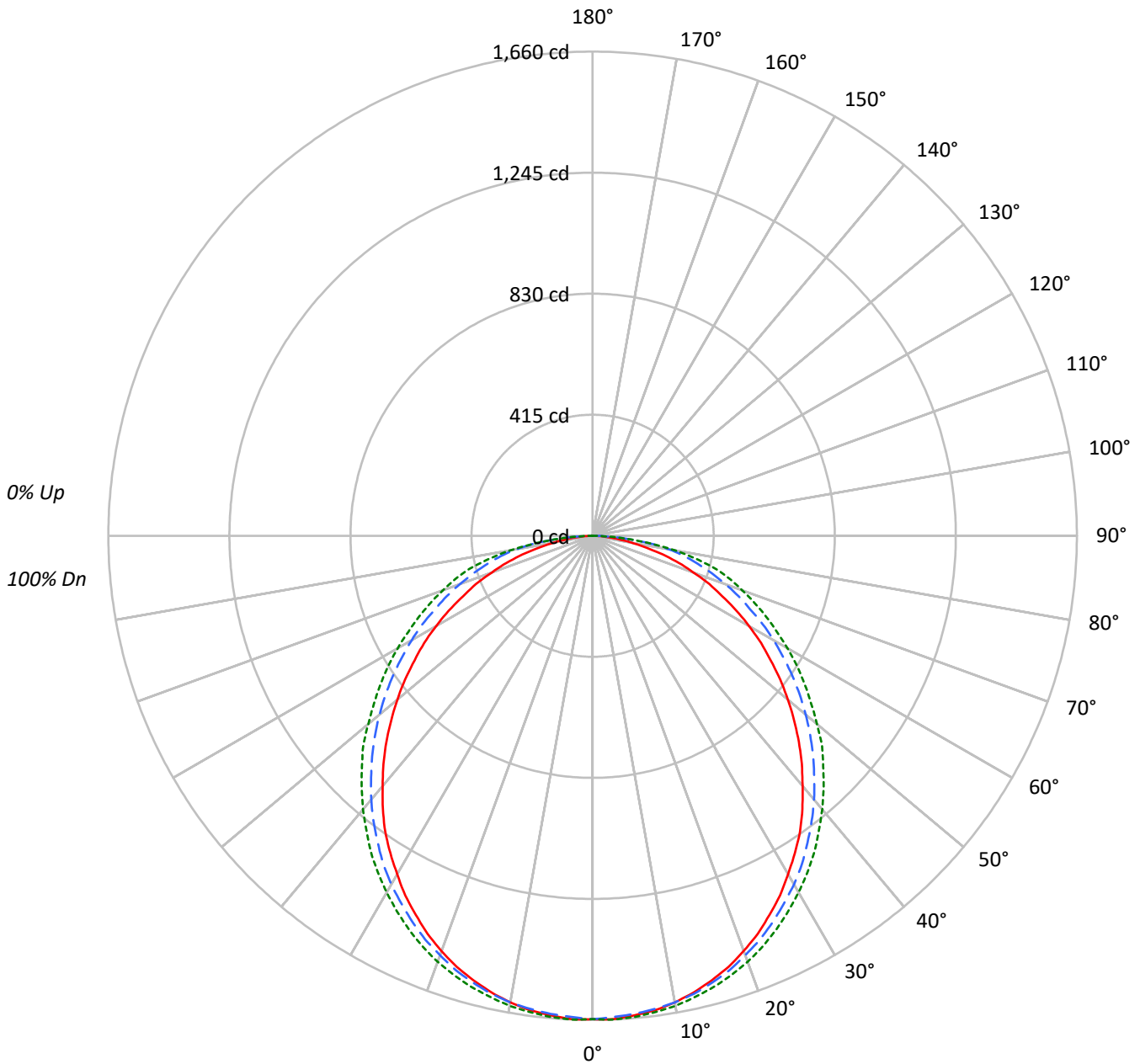
Lumens per Lamp: N/A
Luminaire Lumens: 4718.0 lumens
Efficiency: N/A
Efficacy: 127.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P843127

CATALOG NUMBER: 24CZ2-50HE-UNV-B35

Luminous Intensity Polar Plot





TEST NUMBER: P843127

CATALOG NUMBER: 24CZ2-50HE-UNV-B35

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°	2339	2339	2339
5°	2338	2331	2346
10°	2328	2328	2345
15°	2306	2317	2341
20°	2276	2298	2334
25°	2233	2275	2320
30°	2183	2249	2300
35°	2135	2213	2283
40°	2063	2176	2256
45°	1995	2133	2231
50°	1918	2093	2205
55°	1833	2054	2183
60°	1747	2022	2178
65°	1636	1987	2192
70°	1515	1998	2251
75°	1357	2035	2378
80°	1096	2155	2326
85°	824	1891	1844



TEST NUMBER: P843127

CATALOG NUMBER: 24CZ2-50HE-UNV-B35

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.9	3.3
10°-20°	448.4	9.5
20°-30°	674.0	14.3
30°-40°	802.8	17.0
40°-50°	821.6	17.4
50°-60°	739.7	15.7
60°-70°	580.9	12.3
70°-80°	377.0	8.0
80°-90°	116.6	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°	1279.2	27.1
0°-40°	2082.1	44.1
0°-60°	3643.4	77.2
0°-90°	4718.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4718.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1658	1658	1658	1658	1658	
5°	1650	1653	1645	1654	1656	157
15°	1578	1583	1586	1599	1602	445
25°	1434	1446	1461	1485	1490	661
35°	1239	1254	1284	1316	1325	773
45°	1000	1024	1069	1109	1118	771
55°	745	778	835	878	887	668
65°	490	528	595	644	656	488
75°	249	297	373	424	436	263
85°	51	94	117	114	114	62
90°	0	0	0	0	0	



TEST NUMBER: P843127

CATALOG NUMBER: 24CZ2-50HE-UNV-B35

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1657.5	1657.5	1657.5	1657.5	1657.5
2.5°	1659.0	1659.0	1651.4	1659.0	1660.4
5°	1650.0	1653.0	1645.4	1654.5	1655.9
7.5°	1640.9	1640.9	1636.4	1645.4	1647.1
10°	1624.5	1625.9	1624.5	1635.0	1636.4
12.5°	1603.6	1606.4	1608.1	1618.5	1620.0
15°	1578.1	1582.6	1585.5	1599.0	1602.1
17.5°	1549.6	1554.1	1561.5	1576.5	1579.5
20°	1515.1	1521.0	1530.1	1549.6	1554.1
22.5°	1477.7	1483.7	1498.6	1516.5	1524.1
25°	1434.2	1446.1	1461.1	1485.1	1489.6
27.5°	1390.7	1401.1	1420.6	1446.1	1452.2
30°	1339.8	1356.2	1380.2	1405.7	1411.6
32.5°	1290.3	1306.7	1335.2	1362.3	1369.7
35°	1239.4	1254.4	1284.3	1315.7	1324.8
37.5°	1180.9	1200.4	1233.4	1264.8	1273.9
40°	1119.5	1143.5	1180.9	1213.9	1224.4
42.5°	1061.0	1086.4	1124.0	1159.9	1171.8
45°	999.6	1023.6	1068.6	1109.0	1118.0
47.5°	936.6	963.6	1011.5	1051.9	1066.9
50°	873.7	902.3	953.2	995.1	1004.1
52.5°	810.7	840.7	894.7	939.6	944.1
55°	744.8	777.9	834.7	878.2	887.3
57.5°	684.9	713.4	774.8	819.7	830.2
60°	619.0	650.4	716.3	758.4	771.7
62.5°	555.9	589.0	658.0	699.9	711.8
65°	490.0	527.6	594.9	644.4	656.3
67.5°	433.2	469.1	541.0	589.0	600.9
70°	367.1	407.7	484.1	533.6	545.5
72.5°	310.2	352.1	428.6	476.5	494.6
75°	248.8	296.7	373.2	424.1	436.1
77.5°	188.9	244.3	322.1	361.1	361.1
80°	134.9	193.4	265.2	283.3	286.2
82.5°	88.5	145.4	196.3	194.8	194.8
85°	50.9	94.4	116.8	113.9	113.9
87.5°	19.5	39.0	41.9	41.9	40.4
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)