

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: P732330

Luminaire Tested: **24CZ2-50HE-S-B2750-W2D-5000K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732330
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-B2750-W2D-5000K
Description: 2X4 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Summary

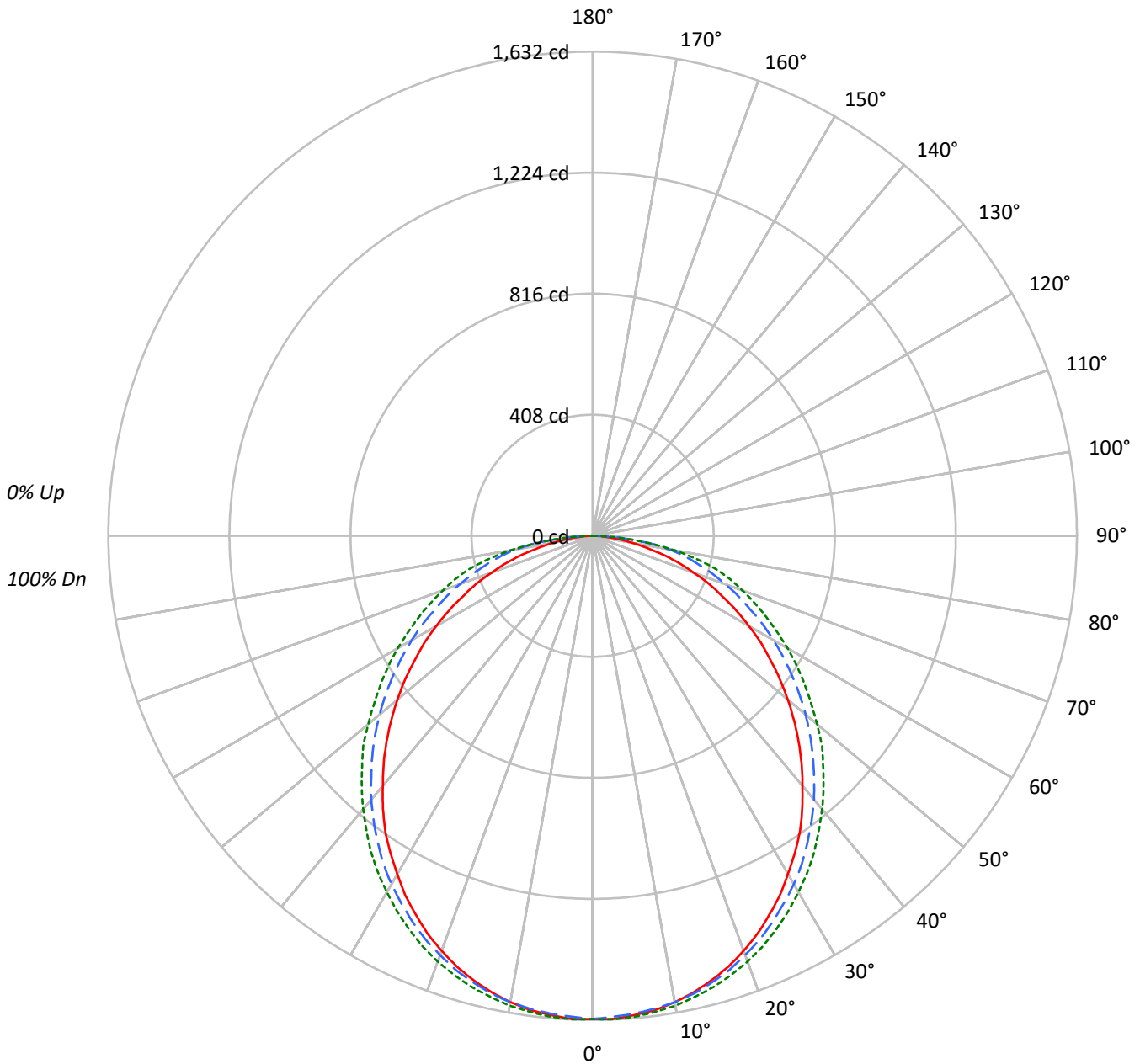
Lumens per Lamp: N/A
Luminaire Lumens: 4636.0 lumens
Efficiency: N/A
Efficacy: 125.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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				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				100
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83				83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69				69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58				58
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49				49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42				42
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37				37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33				33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29				29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26				26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24				24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2299	2299	2299
5°	2297	2291	2305
10°	2288	2288	2304
15°	2266	2276	2300
20°	2236	2258	2294
25°	2195	2236	2279
30°	2145	2210	2261
35°	2098	2174	2243
40°	2027	2138	2217
45°	1960	2096	2193
50°	1885	2056	2166
55°	1801	2018	2145
60°	1717	1987	2140
65°	1608	1952	2154
70°	1488	1963	2212
75°	1333	2000	2337
80°	1077	2118	2285
85°	810	1859	1814



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.2	3.3
10°-20°	440.6	9.5
20°-30°	662.3	14.3
30°-40°	788.9	17.0
40°-50°	807.4	17.4
50°-60°	726.9	15.7
60°-70°	570.8	12.3
70°-80°	370.5	8.0
80°-90°	114.6	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°	1257.0	27.1
0°-40°	2045.9	44.1
0°-60°	3580.1	77.2
0°-90°	4636.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4636.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1629	1629	1629	1629	1629	
5°	1621	1624	1617	1626	1627	154
15°	1551	1555	1558	1571	1574	437
25°	1409	1421	1436	1459	1464	649
35°	1218	1232	1262	1293	1302	760
45°	982	1006	1050	1090	1099	757
55°	732	764	820	863	872	656
65°	482	518	585	633	645	479
75°	244	292	367	417	428	259
85°	50	93	115	112	112	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1628.7	1628.7	1628.7	1628.7	1628.7
2.5°	1630.2	1630.2	1622.7	1630.2	1631.6
5°	1621.3	1624.3	1616.8	1625.7	1627.1
7.5°	1612.4	1612.4	1608.0	1616.8	1618.4
10°	1596.3	1597.7	1596.3	1606.6	1608.0
12.5°	1575.7	1578.5	1580.1	1590.4	1591.8
15°	1550.7	1555.1	1557.9	1571.2	1574.3
17.5°	1522.6	1527.1	1534.3	1549.1	1552.1
20°	1488.7	1494.6	1503.5	1522.6	1527.1
22.5°	1452.0	1457.9	1472.6	1490.2	1497.6
25°	1409.3	1421.0	1435.7	1459.3	1463.7
27.5°	1366.5	1376.8	1396.0	1421.0	1427.0
30°	1316.5	1332.6	1356.2	1381.2	1387.1
32.5°	1267.9	1284.0	1312.0	1338.6	1345.9
35°	1217.8	1232.5	1262.0	1292.9	1301.7
37.5°	1160.3	1179.5	1212.0	1242.8	1251.7
40°	1100.0	1123.6	1160.3	1192.8	1203.1
42.5°	1042.5	1067.5	1104.5	1139.8	1151.5
45°	982.2	1005.8	1050.0	1089.7	1098.6
47.5°	920.3	946.9	993.9	1033.7	1048.4
50°	858.5	886.6	936.6	977.8	986.6
52.5°	796.6	826.1	879.1	923.3	927.7
55°	731.9	764.3	820.2	863.0	871.9
57.5°	673.0	701.0	761.3	805.5	815.8
60°	608.2	639.1	703.8	745.2	758.3
62.5°	546.3	578.8	646.5	687.7	699.4
65°	481.5	518.4	584.6	633.2	644.9
67.5°	425.6	460.9	531.6	578.8	590.5
70°	360.7	400.6	475.7	524.3	536.0
72.5°	304.8	346.0	421.2	468.2	486.0
75°	244.5	291.5	366.7	416.8	428.5
77.5°	185.6	240.1	316.5	354.8	354.8
80°	132.5	190.0	260.6	278.4	281.2
82.5°	86.9	142.8	192.9	191.4	191.4
85°	50.0	92.8	114.8	112.0	112.0
87.5°	19.2	38.3	41.2	41.2	39.7
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)