

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: P732311

Luminaire Tested: **24CZ2-50HE-B2750-W2D-2700K**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P732311
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-B2750-W2D-2700K
Description: 2X4 5000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Summary

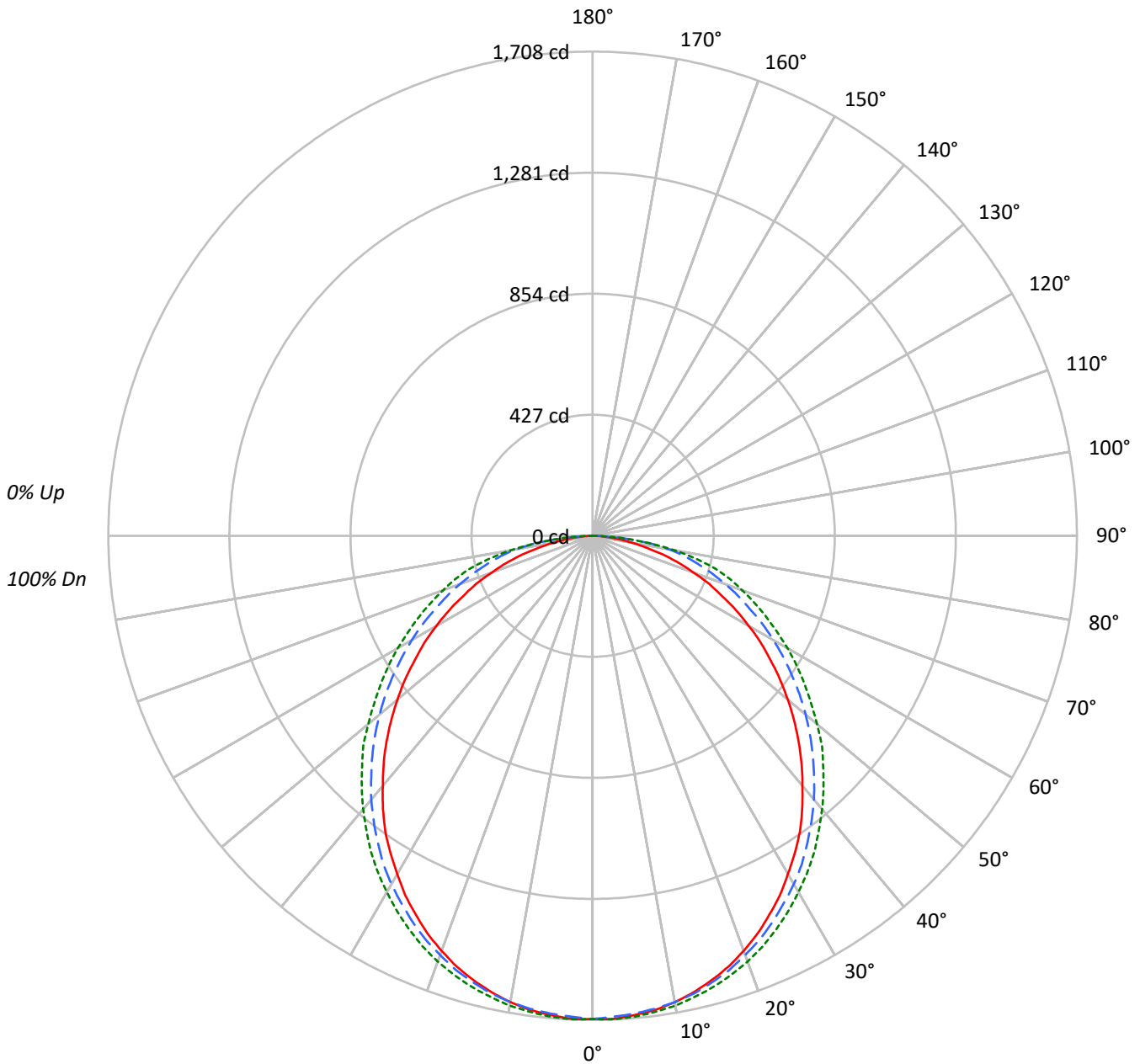
Lumens per Lamp: N/A
Luminaire Lumens: 4852.0 lumens
Efficiency: N/A
Efficacy: 131.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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: P732311

CATALOG NUMBER: 24CZ2-50HE-B2750-W2D-2700K

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°	2406	2406	2406
5°	2404	2397	2413
10°	2394	2394	2412
15°	2371	2382	2407
20°	2340	2363	2400
25°	2297	2340	2386
30°	2245	2313	2366
35°	2196	2276	2347
40°	2121	2237	2320
45°	2052	2193	2295
50°	1973	2152	2267
55°	1885	2112	2245
60°	1797	2079	2240
65°	1683	2043	2254
70°	1558	2054	2315
75°	1395	2093	2445
80°	1127	2217	2392
85°	849	1945	1898



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.4	3.3
10°-20°	461.1	9.5
20°-30°	693.1	14.3
30°-40°	825.6	17.0
40°-50°	845.0	17.4
50°-60°	760.7	15.7
60°-70°	597.4	12.3
70°-80°	387.7	8.0
80°-90°	119.9	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°	1315.6	27.1
0°-40°	2141.2	44.1
0°-60°	3746.9	77.2
0°-90°	4852.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4852.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1705	1705	1705	1705	1705	
5°	1697	1700	1692	1702	1703	161
15°	1623	1628	1630	1644	1648	458
25°	1475	1487	1503	1527	1532	679
35°	1275	1290	1321	1353	1362	795
45°	1028	1053	1099	1140	1150	793
55°	766	800	858	903	912	687
65°	504	543	612	663	675	502
75°	256	305	384	436	448	271
85°	52	97	120	117	117	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1704.6	1704.6	1704.6	1704.6	1704.6
2.5°	1706.1	1706.1	1698.3	1706.1	1707.6
5°	1696.8	1700.0	1692.2	1701.5	1702.9
7.5°	1687.5	1687.5	1682.9	1692.2	1693.8
10°	1670.6	1672.1	1670.6	1681.4	1682.9
12.5°	1649.1	1652.1	1653.7	1664.5	1666.0
15°	1622.9	1627.6	1630.5	1644.5	1647.6
17.5°	1593.6	1598.2	1605.8	1621.2	1624.4
20°	1558.1	1564.2	1573.5	1593.6	1598.2
22.5°	1519.7	1525.8	1541.2	1559.6	1567.4
25°	1474.9	1487.2	1502.6	1527.3	1531.9
27.5°	1430.2	1440.9	1461.0	1487.2	1493.5
30°	1377.8	1394.7	1419.4	1445.6	1451.7
32.5°	1326.9	1343.8	1373.2	1401.0	1408.6
35°	1274.6	1290.0	1320.8	1353.1	1362.4
37.5°	1214.4	1234.5	1268.4	1300.7	1310.0
40°	1151.3	1176.0	1214.4	1248.4	1259.2
42.5°	1091.1	1117.3	1155.9	1192.9	1205.1
45°	1028.0	1052.7	1098.9	1140.5	1149.8
47.5°	963.2	991.0	1040.2	1081.8	1097.2
50°	898.5	927.9	980.2	1023.3	1032.6
52.5°	833.7	864.6	920.1	966.3	971.0
55°	766.0	799.9	858.4	903.2	912.5
57.5°	704.3	733.7	796.8	843.0	853.8
60°	636.5	668.8	736.6	779.9	793.6
62.5°	571.7	605.7	676.6	719.7	732.0
65°	504.0	542.6	611.8	662.7	675.0
67.5°	445.5	482.4	556.3	605.7	618.0
70°	377.5	419.3	497.8	548.7	561.0
72.5°	319.0	362.1	440.8	490.0	508.6
75°	255.9	305.1	383.8	436.2	448.4
77.5°	194.2	251.2	331.3	371.4	371.4
80°	138.7	198.9	272.8	291.3	294.3
82.5°	91.0	149.5	201.8	200.4	200.4
85°	52.4	97.1	120.1	117.2	117.2
87.5°	20.1	40.1	43.1	43.1	41.6
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)