

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: P843155

Luminaire Tested: **24CZ2-60HE-SQR-UNV-B40**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P843155
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P388488)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-60HE-SQR-UNV-B40
Description: 2X4 6000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Summary

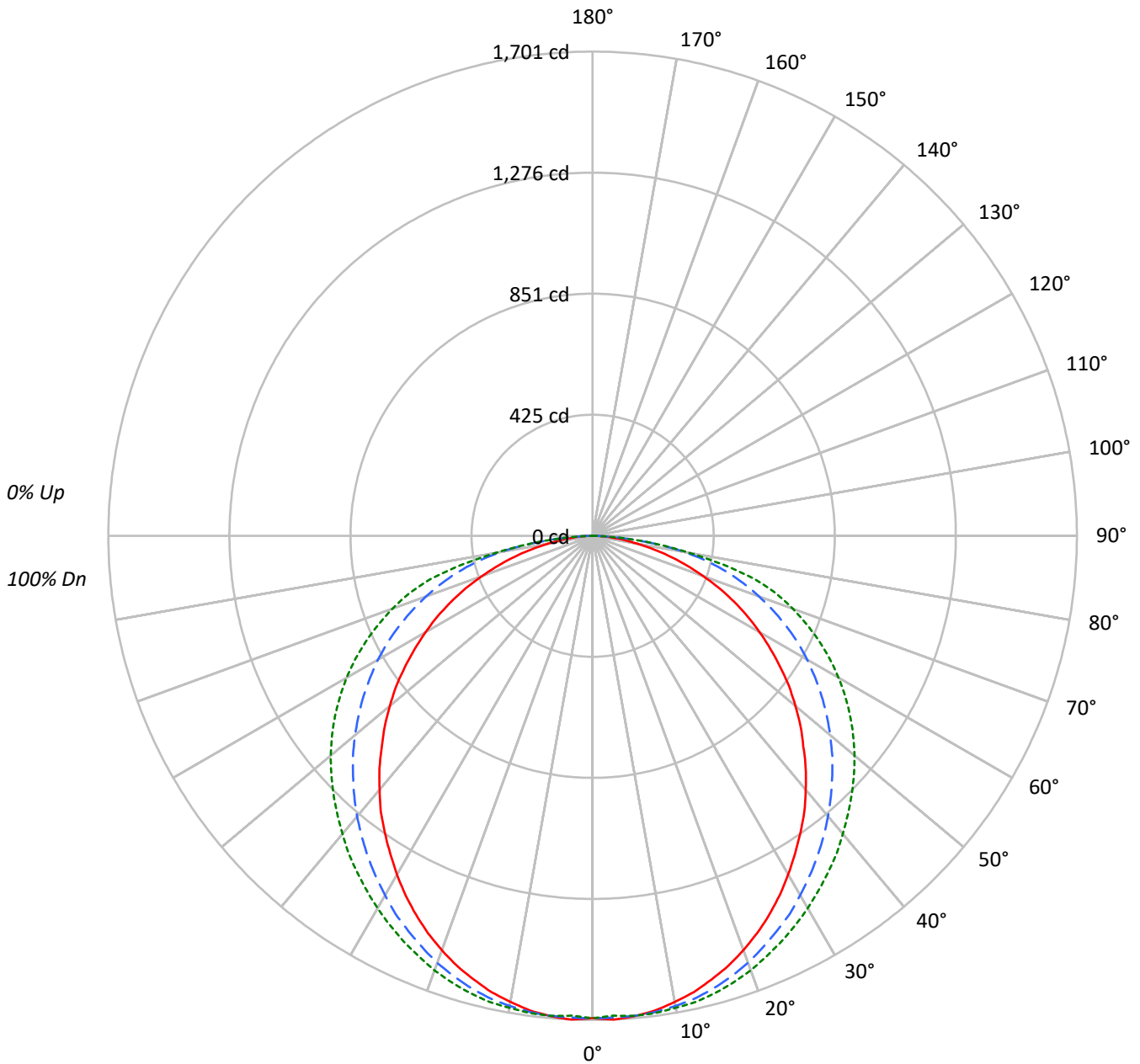
Lumens per Lamp: N/A
Luminaire Lumens: 5301.0 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 45
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: P843155

CATALOG NUMBER: 24CZ2-60HE-SQR-UNV-B40

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	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84	82																			
2	98	89	81	75	95	87	80	74	83	78	73	80	75	71	77	73	69	67																			
3	89	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56																			
4	81	68	59	52	78	67	58	52	64	57	51	62	55	50	60	54	49	47																			
5	74	61	51	44	72	60	51	44	57	50	44	55	49	43	54	48	43	41																			
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35																			
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	30	28																			
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25																			
10	52	38	30	25	50	37	30	24	36	29	24	36	29	24	35	29	24	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2391	2391	2391
5°	2401	2398	2398
10°	2383	2403	2413
15°	2358	2404	2430
20°	2327	2398	2440
25°	2287	2385	2448
30°	2239	2376	2462
35°	2193	2371	2485
40°	2145	2371	2519
45°	2089	2376	2568
50°	2041	2391	2637
55°	1982	2417	2718
60°	1912	2455	2816
65°	1829	2502	2935
70°	1697	2565	3085
75°	1537	2653	3227
80°	1294	2661	2773
85°	991	2011	2011



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.8	3.0
10°-20°	462.8	8.7
20°-30°	702.9	13.3
30°-40°	855.0	16.1
40°-50°	910.3	17.2
50°-60°	867.0	16.4
60°-70°	725.0	13.7
70°-80°	483.4	9.1
80°-90°	133.7	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°	1326.5	25.0
0°-40°	2181.5	41.2
0°-60°	3958.8	74.7
0°-90°	5301.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5301.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1694	1694	1694	1694	1694	
5°	1694	1684	1693	1693	1693	161
15°	1614	1618	1646	1658	1663	455
25°	1469	1488	1532	1558	1572	676
35°	1273	1309	1376	1421	1442	796
45°	1047	1103	1190	1257	1287	809
55°	805	875	982	1068	1104	720
65°	548	628	749	842	879	541
75°	282	371	487	569	592	299
85°	61	114	124	123	124	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1694.4	1694.4	1694.4	1694.4	1694.4
2.5°	1701.4	1689.1	1694.4	1694.4	1687.5
5°	1694.4	1683.9	1692.8	1692.8	1692.8
7.5°	1682.3	1673.4	1687.5	1691.0	1691.0
10°	1663.0	1659.6	1677.1	1682.3	1683.9
12.5°	1642.0	1640.2	1664.8	1671.6	1677.1
15°	1613.8	1617.5	1645.5	1657.7	1663.0
17.5°	1584.3	1591.1	1622.7	1640.2	1645.5
20°	1549.2	1559.7	1596.5	1613.8	1624.5
22.5°	1510.8	1526.5	1564.9	1585.9	1598.1
25°	1468.7	1487.8	1531.7	1557.9	1572.0
27.5°	1423.2	1447.8	1498.5	1528.1	1542.2
30°	1374.1	1402.0	1458.2	1493.3	1510.8
32.5°	1323.3	1356.5	1418.0	1456.4	1477.3
35°	1272.6	1309.4	1375.9	1421.4	1442.3
37.5°	1221.9	1258.5	1332.2	1381.1	1407.5
40°	1164.1	1207.8	1286.7	1340.8	1367.2
42.5°	1108.1	1155.2	1239.4	1298.8	1327.0
45°	1046.7	1102.9	1190.2	1256.9	1286.7
47.5°	990.7	1046.7	1141.3	1211.4	1244.6
50°	929.5	988.9	1088.8	1165.9	1200.9
52.5°	869.9	931.4	1036.2	1118.6	1153.6
55°	805.3	875.2	982.1	1067.8	1104.5
57.5°	740.5	815.8	925.9	1015.3	1052.2
60°	677.5	754.4	869.9	959.3	997.8
62.5°	614.5	691.3	812.1	903.1	940.0
65°	547.8	628.3	749.1	841.9	878.8
67.5°	481.4	565.3	686.1	778.9	814.0
70°	411.3	500.7	621.5	712.5	747.5
72.5°	346.7	435.9	554.9	644.3	677.5
75°	281.9	371.0	486.6	569.0	591.7
77.5°	218.8	308.0	411.3	465.7	470.9
80°	159.2	243.4	327.4	343.1	341.2
82.5°	106.7	182.0	225.9	227.5	232.7
85°	61.2	113.7	124.2	122.6	124.2
87.5°	24.6	40.3	35.0	26.2	26.2
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)