

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: P843170

Luminaire Tested: **24CZ2-65HE-SQR-UNV-B40**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P843170
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: 24CZ2-65HE-SQR-UNV-B40
Description: 2X4 6500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Summary

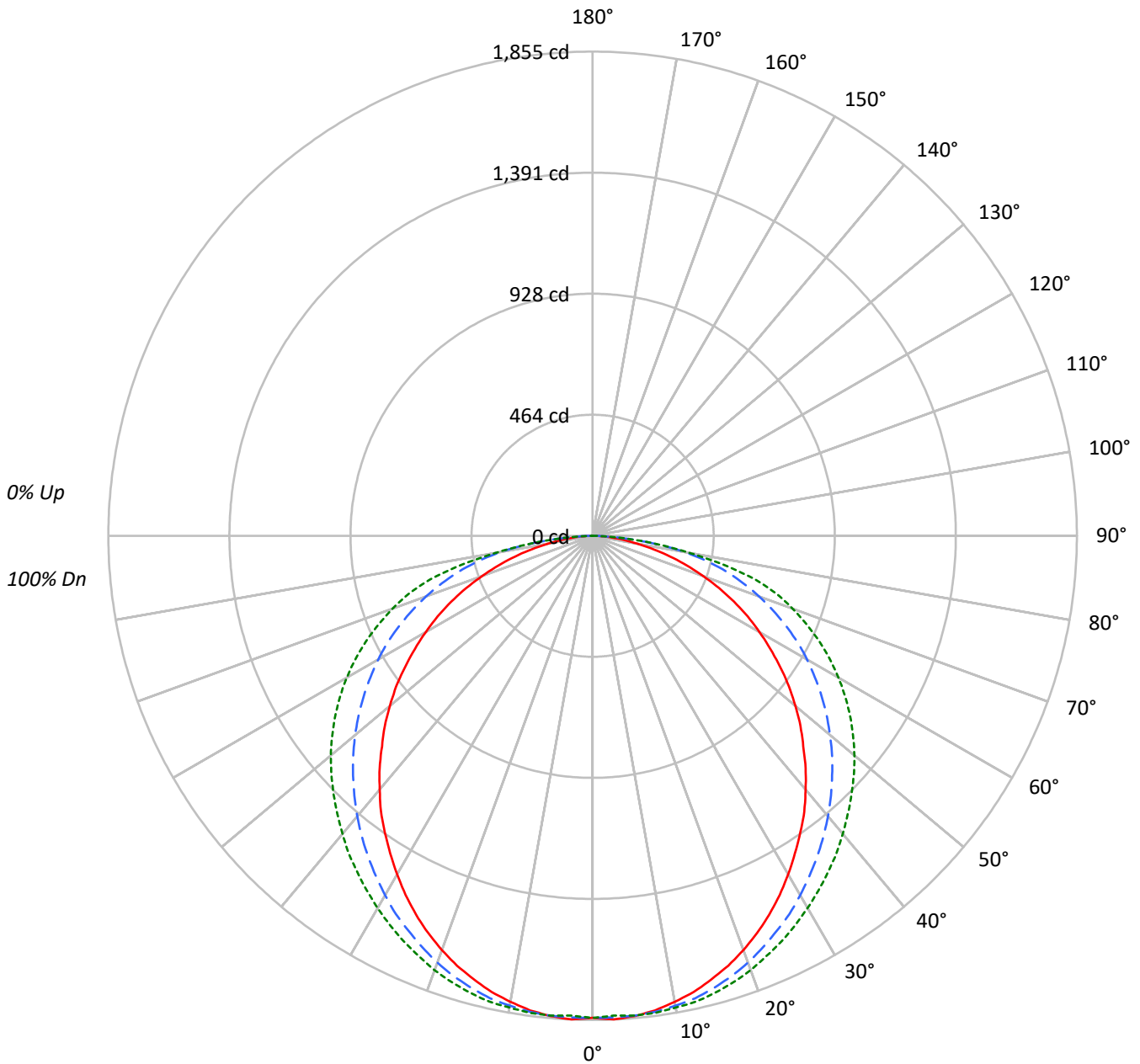
Lumens per Lamp: N/A
Luminaire Lumens: 5779.0 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 50
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									
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°	2607	2607	2607
5°	2617	2614	2614
10°	2598	2620	2631
15°	2571	2621	2649
20°	2537	2614	2660
25°	2493	2600	2669
30°	2441	2591	2684
35°	2390	2584	2709
40°	2338	2584	2746
45°	2278	2590	2800
50°	2225	2606	2875
55°	2160	2634	2963
60°	2085	2677	3071
65°	1994	2727	3199
70°	1850	2796	3363
75°	1676	2893	3518
80°	1411	2901	3023
85°	1080	2193	2193



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.3	3.0
10°-20°	504.5	8.7
20°-30°	766.3	13.3
30°-40°	932.1	16.1
40°-50°	992.4	17.2
50°-60°	945.2	16.4
60°-70°	790.4	13.7
70°-80°	527.0	9.1
80°-90°	145.8	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°	1446.1	25.0
0°-40°	2378.2	41.2
0°-60°	4315.8	74.7
0°-90°	5779.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5779.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1847	1847	1847	1847	1847	
5°	1847	1836	1845	1845	1845	175
15°	1759	1763	1794	1807	1813	496
25°	1601	1622	1670	1698	1714	737
35°	1387	1428	1500	1550	1572	868
45°	1141	1202	1298	1370	1403	882
55°	878	954	1071	1164	1204	785
65°	597	685	817	918	958	590
75°	307	404	530	620	645	326
85°	67	124	135	134	135	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1847.1	1847.1	1847.1	1847.1	1847.1
2.5°	1854.8	1841.4	1847.1	1847.1	1839.7
5°	1847.1	1835.7	1845.4	1845.4	1845.4
7.5°	1834.0	1824.3	1839.7	1843.4	1843.4
10°	1812.9	1809.2	1828.3	1834.0	1835.7
12.5°	1790.1	1788.1	1814.9	1822.3	1828.3
15°	1759.4	1763.3	1793.8	1807.2	1812.9
17.5°	1727.1	1734.6	1769.0	1788.1	1793.8
20°	1688.9	1700.3	1740.5	1759.4	1771.0
22.5°	1647.0	1664.1	1706.0	1728.8	1742.2
25°	1601.1	1622.0	1669.8	1698.3	1713.7
27.5°	1551.5	1578.3	1633.6	1665.9	1681.2
30°	1498.0	1528.5	1589.7	1627.9	1647.0
32.5°	1442.7	1478.9	1545.8	1587.7	1610.6
35°	1387.3	1427.5	1499.9	1549.5	1572.4
37.5°	1332.0	1372.0	1452.3	1505.6	1534.4
40°	1269.0	1316.7	1402.7	1461.7	1490.5
42.5°	1208.0	1259.4	1351.1	1415.9	1446.6
45°	1141.1	1202.3	1297.6	1370.2	1402.7
47.5°	1080.1	1141.1	1244.2	1320.6	1356.8
50°	1013.4	1078.1	1187.0	1271.0	1309.2
52.5°	948.4	1015.3	1129.7	1219.4	1257.6
55°	877.9	954.1	1070.6	1164.1	1204.1
57.5°	807.3	889.3	1009.4	1106.9	1147.0
60°	738.6	822.4	948.4	1045.8	1087.8
62.5°	669.9	753.7	885.4	984.6	1024.8
65°	597.2	685.0	816.7	917.9	958.0
67.5°	524.8	616.3	748.0	849.2	887.4
70°	448.4	545.9	677.6	776.8	814.9
72.5°	378.0	475.2	604.9	702.4	738.6
75°	307.3	404.5	530.5	620.3	645.1
77.5°	238.6	335.8	448.4	507.7	513.4
80°	173.6	265.4	356.9	374.0	372.0
82.5°	116.3	198.4	246.3	248.0	253.7
85°	66.7	124.0	135.4	133.7	135.4
87.5°	26.8	43.9	38.2	28.5	28.5
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)