

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: P881267

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

Issue Date: 10/2/2024

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P881267
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P474669)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-65VHE-SQR-UNV-B40
Description: 2X4 6500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

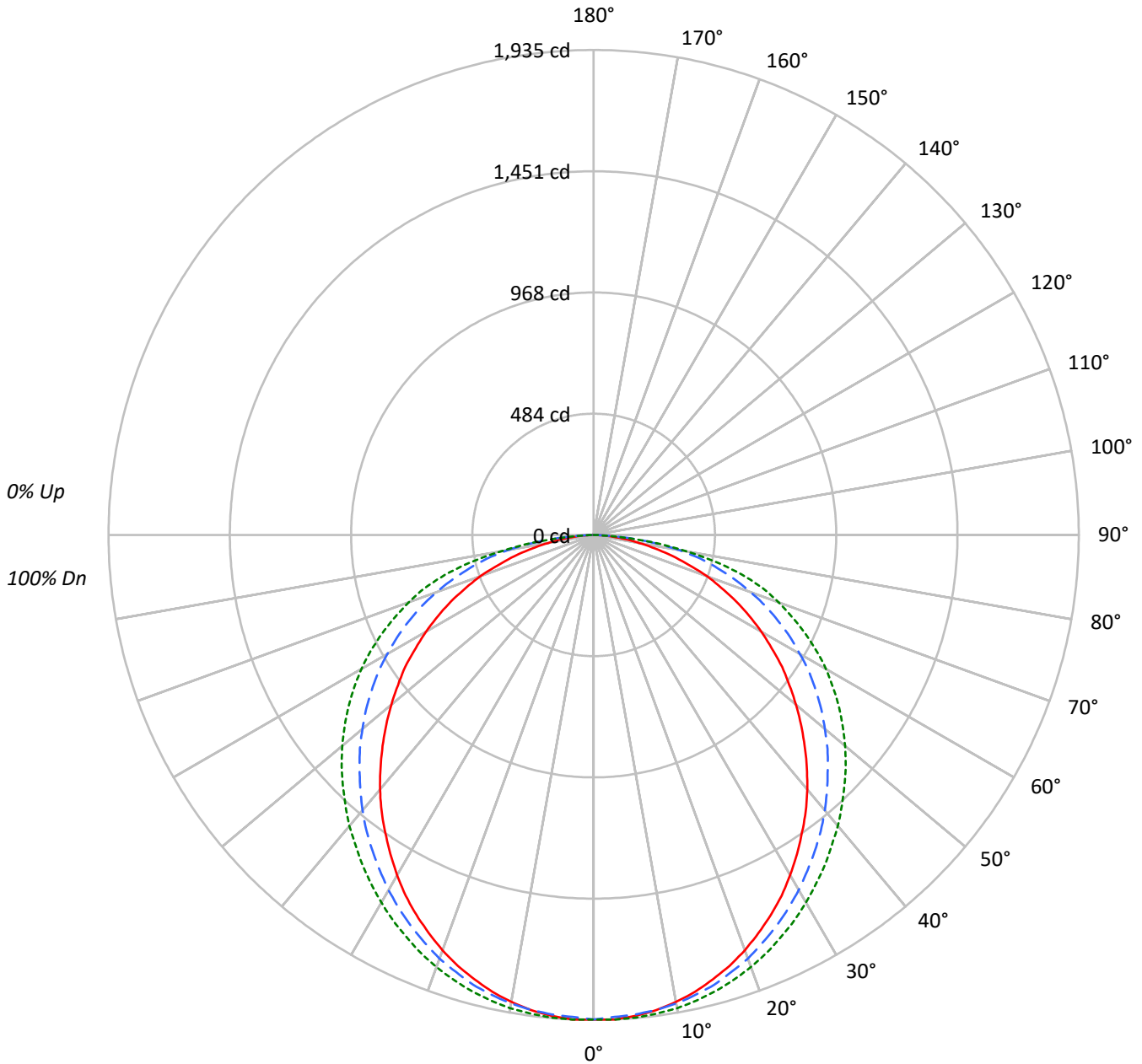
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5886.0 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.39
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 51
Input Voltage (V): NR
Input Current (Ain): 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	101	96	93	96	93	90	92	90	87	89	87	84	82																			
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68																			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56																			
4	81	69	59	53	79	67	59	52	65	57	51	62	56	51	60	55	50	48																			
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41																			
6	69	55	46	39	67	54	45	39	52	44	39	50	43	38	49	43	38	36																			
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	31																			
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28																			
9	55	42	33	28	54	41	33	27	40	32	27	39	32	27	38	31	27	25																			
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2729	2729	2729
5°	2728	2721	2739
10°	2711	2721	2748
15°	2682	2715	2752
20°	2648	2702	2755
25°	2605	2683	2756
30°	2555	2667	2760
35°	2497	2651	2770
40°	2443	2642	2793
45°	2376	2635	2823
50°	2312	2643	2874
55°	2259	2661	2938
60°	2182	2681	3021
65°	2095	2714	3112
70°	1987	2751	3236
75°	1780	2789	3343
80°	1499	2798	3033
85°	1111	2115	1995



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.2	3.1
10°-20°	525.1	8.9
20°-30°	794.9	13.5
30°-40°	961.6	16.3
40°-50°	1015.0	17.2
50°-60°	957.1	16.3
60°-70°	789.1	13.4
70°-80°	517.7	8.8
80°-90°	142.3	2.4
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°	1503.2	25.5
0°-40°	2464.7	41.9
0°-60°	4436.9	75.4
0°-90°	5886.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5886.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1933	1933	1933	1933	1933	
5°	1926	1926	1920	1933	1933	183
15°	1836	1846	1858	1880	1884	518
25°	1673	1694	1723	1758	1770	770
35°	1449	1487	1538	1591	1608	907
45°	1190	1244	1320	1391	1414	919
55°	918	983	1081	1162	1194	818
65°	627	702	813	899	932	619
75°	326	410	512	592	613	345
85°	69	118	131	127	123	85
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1933.4	1933.4	1933.4	1933.4	1933.4
2.5°	1935.2	1933.4	1925.0	1936.2	1935.2
5°	1925.8	1925.8	1920.3	1933.4	1933.4
7.5°	1912.6	1913.6	1911.6	1926.7	1926.7
10°	1892.0	1895.8	1898.5	1915.6	1917.3
12.5°	1867.5	1874.2	1879.7	1900.5	1902.4
15°	1835.5	1845.9	1858.1	1879.7	1883.6
17.5°	1802.6	1815.0	1828.1	1856.3	1861.0
20°	1763.2	1777.3	1798.9	1827.1	1834.6
22.5°	1719.0	1738.7	1761.2	1795.1	1804.6
25°	1673.0	1693.5	1722.8	1758.5	1769.6
27.5°	1623.1	1647.5	1680.4	1721.8	1734.0
30°	1567.6	1595.7	1636.3	1680.4	1693.5
32.5°	1509.2	1542.1	1587.2	1636.3	1651.2
35°	1449.2	1486.6	1538.4	1591.2	1608.0
37.5°	1389.7	1427.4	1488.6	1544.1	1560.0
40°	1325.8	1367.2	1434.1	1493.3	1515.9
42.5°	1258.1	1307.2	1377.6	1443.5	1465.1
45°	1190.5	1244.0	1320.3	1390.7	1414.3
47.5°	1121.8	1181.1	1264.8	1336.2	1363.5
50°	1053.2	1116.2	1203.6	1280.7	1308.9
52.5°	983.6	1049.5	1144.4	1226.2	1251.7
55°	917.9	982.6	1081.4	1162.2	1194.2
57.5°	841.6	914.9	1019.3	1101.2	1132.2
60°	772.9	844.5	949.8	1036.3	1070.1
62.5°	698.6	772.0	883.0	969.5	1002.4
65°	627.2	702.5	812.6	899.0	931.8
67.5°	550.1	629.2	741.9	825.7	857.7
70°	481.5	555.8	666.6	752.3	784.3
72.5°	397.7	482.5	588.6	673.3	708.0
75°	326.4	409.9	511.5	592.5	613.1
77.5°	251.0	334.8	435.4	488.0	502.1
80°	184.4	263.2	344.2	372.4	373.2
82.5°	124.1	193.8	239.9	254.0	252.0
85°	68.6	118.5	130.6	126.9	123.2
87.5°	28.2	39.4	32.0	22.6	17.8
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)