

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: P881251

Luminaire Tested: **24CZ2-60VHE-SQR-UNV-B35**

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: P881251
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: 24CZ2-60VHE-SQR-UNV-B35
Description: 2X4 6000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

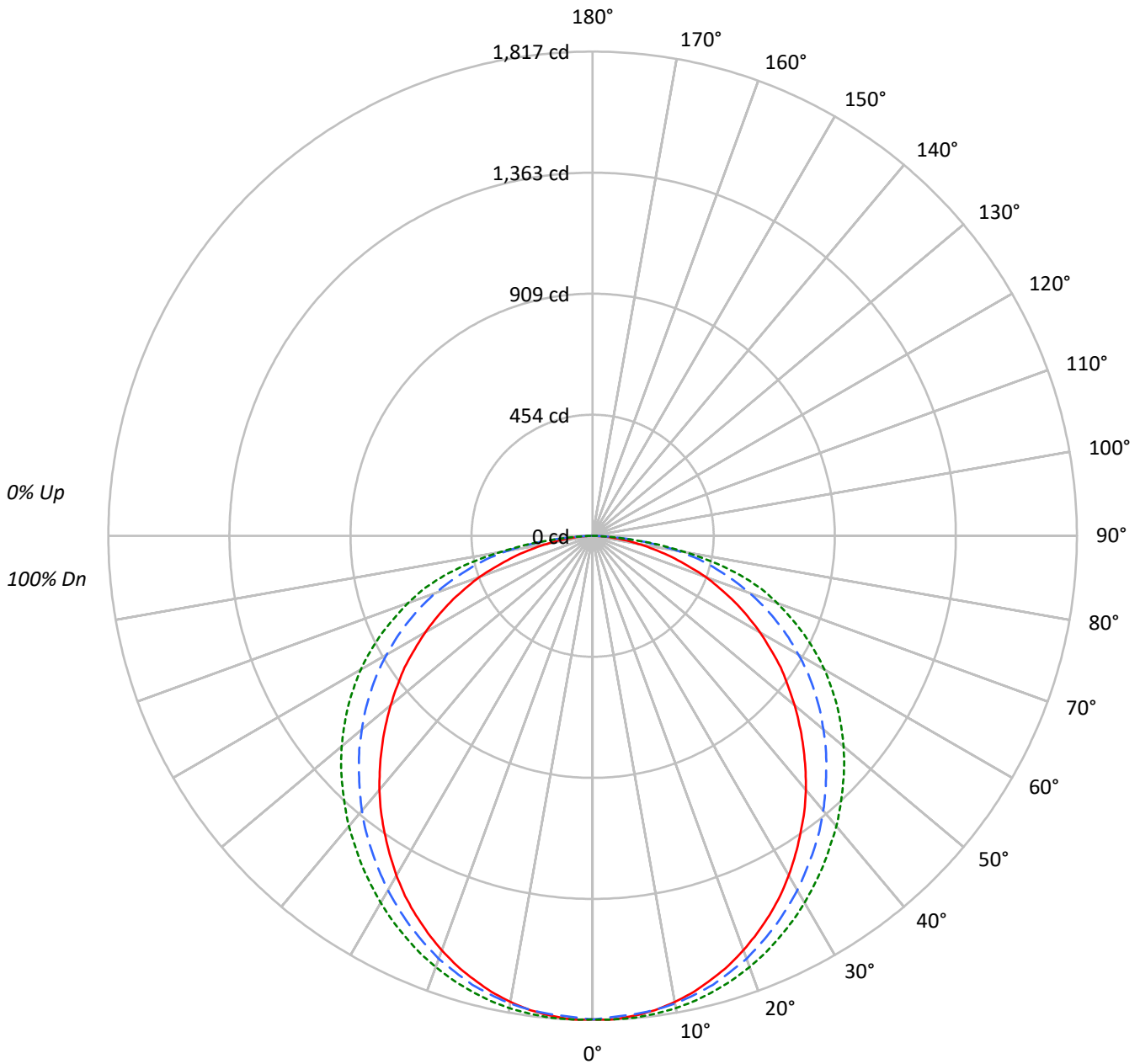
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5526.0 lumens
Efficiency: N/A
Efficacy: 117.6 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): 47
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°	2562	2562	2562
5°	2561	2554	2572
10°	2546	2554	2580
15°	2518	2549	2584
20°	2486	2536	2587
25°	2446	2519	2587
30°	2399	2504	2591
35°	2344	2488	2601
40°	2293	2481	2622
45°	2231	2474	2650
50°	2171	2481	2698
55°	2120	2498	2759
60°	2048	2517	2836
65°	1966	2548	2921
70°	1865	2583	3038
75°	1671	2619	3139
80°	1407	2626	2848
85°	1043	1985	1872



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.0	3.1
10°-20°	493.0	8.9
20°-30°	746.3	13.5
30°-40°	902.8	16.3
40°-50°	952.9	17.2
50°-60°	898.6	16.3
60°-70°	740.9	13.4
70°-80°	486.0	8.8
80°-90°	133.6	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°	1411.2	25.5
0°-40°	2314.0	41.9
0°-60°	4165.5	75.4
0°-90°	5526.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5526.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1815	1815	1815	1815	1815	
5°	1808	1808	1803	1815	1815	172
15°	1723	1733	1744	1765	1768	486
25°	1571	1590	1617	1651	1661	723
35°	1360	1396	1444	1494	1510	852
45°	1118	1168	1240	1306	1328	863
55°	862	922	1015	1091	1121	768
65°	589	660	763	844	875	581
75°	306	385	480	556	576	324
85°	64	111	123	119	116	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1815.2	1815.2	1815.2	1815.2	1815.2
2.5°	1816.8	1815.2	1807.2	1817.7	1816.8
5°	1808.0	1808.0	1802.8	1815.2	1815.2
7.5°	1795.6	1796.6	1794.7	1808.9	1808.9
10°	1776.3	1779.8	1782.4	1798.4	1800.1
12.5°	1753.3	1759.6	1764.7	1784.2	1786.1
15°	1723.3	1733.0	1744.5	1764.7	1768.4
17.5°	1692.3	1703.9	1716.3	1742.8	1747.2
20°	1655.3	1668.6	1688.8	1715.4	1722.4
22.5°	1613.9	1632.3	1653.5	1685.3	1694.2
25°	1570.6	1590.0	1617.4	1650.9	1661.4
27.5°	1523.9	1546.7	1577.6	1616.5	1627.9
30°	1471.8	1498.1	1536.2	1577.6	1590.0
32.5°	1416.9	1447.8	1490.2	1536.2	1550.2
35°	1360.5	1395.7	1444.3	1493.9	1509.7
37.5°	1304.7	1340.1	1397.6	1449.7	1464.6
40°	1244.7	1283.6	1346.4	1402.0	1423.1
42.5°	1181.2	1227.2	1293.3	1355.2	1375.5
45°	1117.7	1167.9	1239.6	1305.7	1327.8
47.5°	1053.2	1108.8	1187.5	1254.5	1280.1
50°	988.8	1047.9	1130.0	1202.4	1228.9
52.5°	923.4	985.3	1074.4	1151.2	1175.1
55°	861.7	922.5	1015.3	1091.2	1121.2
57.5°	790.1	859.0	956.9	1033.9	1063.0
60°	725.7	792.9	891.7	972.9	1004.6
62.5°	655.9	724.7	829.0	910.2	941.1
65°	588.8	659.6	762.9	844.1	874.8
67.5°	516.5	590.7	696.6	775.2	805.2
70°	452.0	521.8	625.9	706.3	736.3
72.5°	373.4	453.0	552.6	632.1	664.7
75°	306.4	384.8	480.2	556.3	575.6
77.5°	235.7	314.3	408.8	458.1	471.4
80°	173.1	247.1	323.1	349.7	350.4
82.5°	116.6	181.9	225.2	238.4	236.6
85°	64.4	111.2	122.6	119.1	115.6
87.5°	26.5	37.0	30.0	21.2	16.8
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)