

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: P881254

Luminaire Tested: **24CZ2-60VHE-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: P881254
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P473819)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-60VHE-UNV-B35
Description: 2X4 6000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

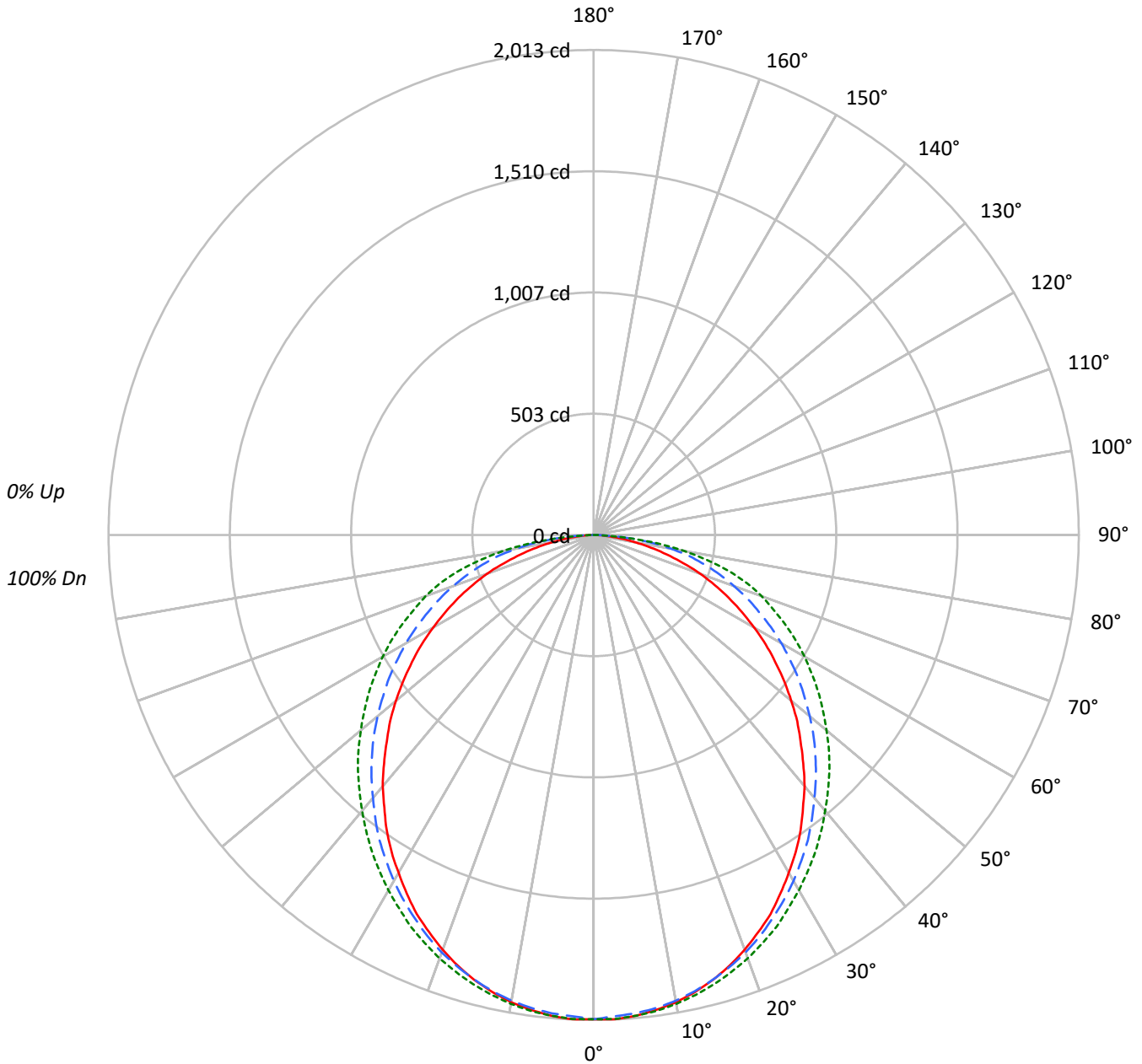
Lumens per Lamp: N/A
Luminaire Lumens: 5817.0 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83																			
2	98	89	82	76	95	88	81	75	84	78	74	81	76	72	78	74	70	68																			
3	89	78	70	63	87	77	69	63	74	67	61	71	65	60	68	63	59	57																			
4	82	69	60	53	79	68	59	53	65	58	52	63	57	51	61	55	51	48																			
5	75	62	53	46	73	61	52	46	58	51	45	56	50	44	55	49	44	42																			
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	37																			
7	64	50	41	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32																			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29																			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26																			
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2837	2837	2837
5°	2838	2824	2838
10°	2823	2813	2832
15°	2794	2793	2820
20°	2752	2769	2809
25°	2704	2735	2795
30°	2639	2703	2775
35°	2579	2668	2764
40°	2509	2625	2753
45°	2423	2598	2761
50°	2350	2569	2769
55°	2264	2551	2800
60°	2170	2539	2852
65°	2068	2530	2925
70°	1946	2555	3059
75°	1712	2608	3182
80°	1429	2628	3070
85°	1022	2251	2282



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.0	3.3
10°-20°	541.3	9.3
20°-30°	812.0	14.0
30°-40°	969.4	16.7
40°-50°	1004.1	17.3
50°-60°	924.4	15.9
60°-70°	745.7	12.8
70°-80°	487.2	8.4
80°-90°	142.8	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°	1543.2	26.5
0°-40°	2512.7	43.2
0°-60°	4441.2	76.3
0°-90°	5817.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5817.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2010	2010	2010	2010	2010	
5°	2004	2002	1993	2004	2004	190
15°	1912	1912	1911	1930	1930	539
25°	1737	1740	1756	1788	1795	798
35°	1497	1510	1549	1591	1604	935
45°	1214	1244	1302	1360	1383	939
55°	920	959	1037	1113	1138	823
65°	619	662	758	844	876	612
75°	314	373	478	561	584	335
85°	63	109	139	148	141	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2010.1	2010.1	2010.1	2010.1	2010.1
2.5°	2012.9	2010.1	1999.8	2012.0	2011.0
5°	2003.5	2001.7	1993.2	2004.5	2003.5
7.5°	1988.5	1987.6	1981.0	1993.2	1993.2
10°	1969.7	1967.9	1963.2	1977.3	1976.3
12.5°	1943.5	1942.5	1939.7	1956.6	1955.7
15°	1912.3	1912.3	1911.4	1930.3	1930.3
17.5°	1874.8	1875.7	1879.5	1901.1	1902.0
20°	1832.6	1836.3	1843.8	1868.2	1870.1
22.5°	1784.5	1792.0	1802.4	1829.8	1832.6
25°	1736.7	1740.4	1756.4	1788.3	1794.9
27.5°	1678.3	1687.9	1708.5	1741.4	1747.9
30°	1619.2	1632.4	1658.6	1692.6	1702.9
32.5°	1560.9	1572.3	1603.3	1641.7	1653.9
35°	1497.1	1510.2	1548.7	1591.1	1604.2
37.5°	1426.5	1447.1	1487.7	1536.5	1550.5
40°	1361.8	1380.5	1424.6	1479.2	1494.2
42.5°	1287.5	1310.9	1364.6	1419.9	1438.7
45°	1214.1	1244.3	1301.5	1359.9	1383.3
47.5°	1145.6	1170.0	1237.7	1303.4	1324.1
50°	1070.3	1098.5	1170.0	1239.6	1261.2
52.5°	996.2	1030.0	1102.2	1175.6	1199.1
55°	920.0	959.4	1036.6	1112.8	1138.1
57.5°	846.7	886.3	966.0	1046.9	1073.2
60°	768.8	811.0	899.4	977.3	1010.3
62.5°	693.6	735.8	828.8	913.5	944.4
65°	619.2	661.6	757.5	843.9	875.9
67.5°	542.3	588.3	690.7	774.4	805.4
70°	471.7	515.8	619.2	708.6	741.4
72.5°	390.9	443.6	548.9	637.1	668.2
75°	313.9	373.0	478.3	561.1	583.6
77.5°	242.4	301.7	406.8	468.9	483.0
80°	175.8	235.9	323.3	366.5	377.7
82.5°	113.7	175.8	234.0	263.1	266.8
85°	63.1	109.0	139.0	147.5	140.9
87.5°	22.5	41.3	40.3	32.8	26.3
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)