

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: P881249

Luminaire Tested: **24CZ2-60VHE-S-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: P881249
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P473969)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-60VHE-S-UNV-B40
Description: 2X4 6000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

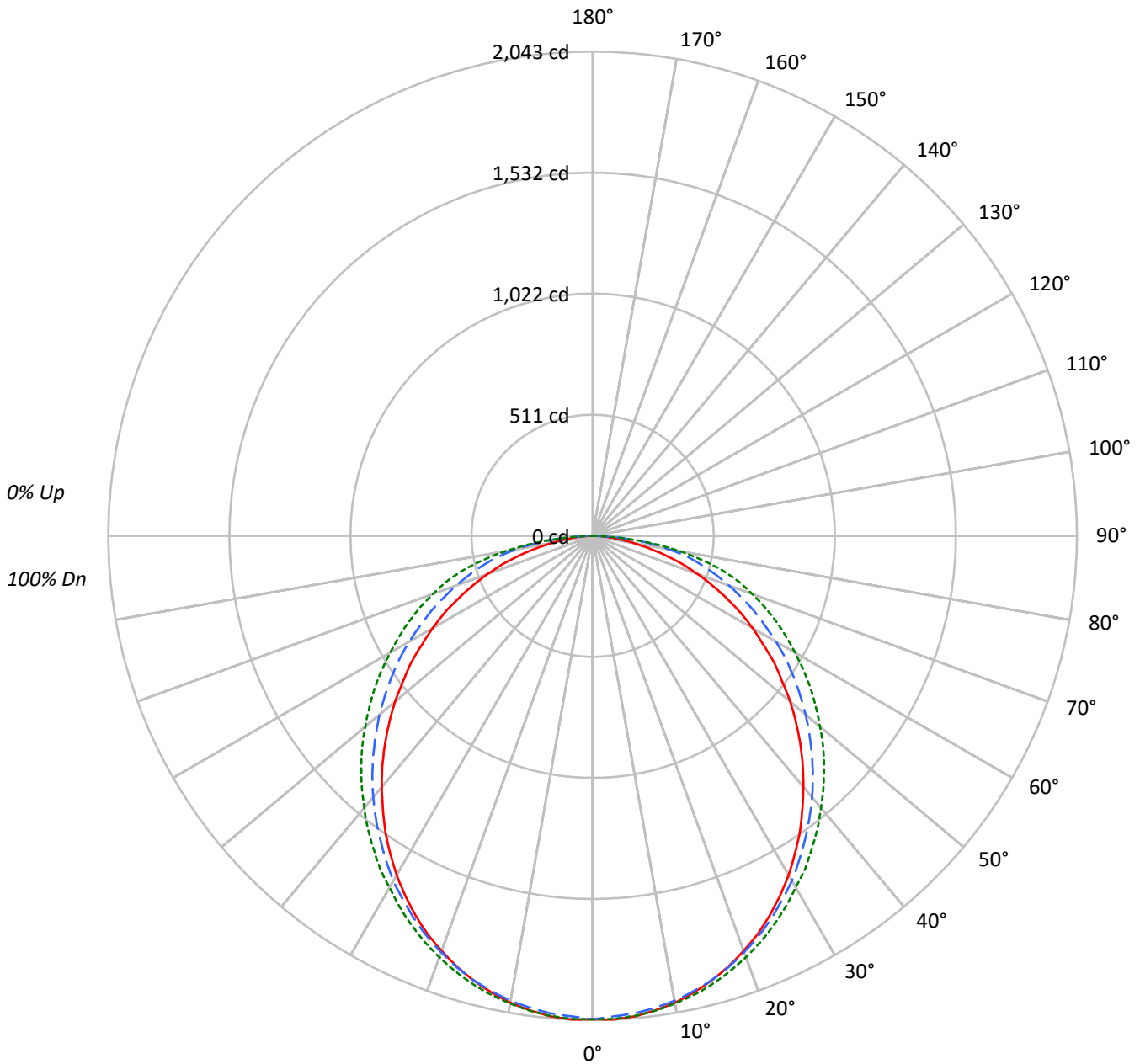
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5845.0 lumens
Efficiency: N/A
Efficacy: 124.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.35
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	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68																			
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	59	57																			
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	55	51	49																			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42																			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37																			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32																			
8	60	46	38	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29																			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26																			
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2879	2879	2879
5°	2884	2866	2881
10°	2867	2855	2872
15°	2838	2836	2860
20°	2799	2807	2842
25°	2752	2776	2820
30°	2694	2741	2793
35°	2627	2693	2777
40°	2549	2653	2761
45°	2472	2612	2755
50°	2388	2576	2749
55°	2303	2544	2764
60°	2198	2520	2783
65°	2081	2510	2851
70°	1942	2524	2952
75°	1728	2597	3110
80°	1412	2653	3036
85°	996	2317	2364



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.9	3.3
10°-20°	549.3	9.4
20°-30°	823.4	14.1
30°-40°	980.8	16.8
40°-50°	1011.2	17.3
50°-60°	922.8	15.8
60°-70°	737.9	12.6
70°-80°	482.0	8.2
80°-90°	144.7	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°	1565.7	26.8
0°-40°	2546.4	43.6
0°-60°	4480.4	76.7
0°-90°	5845.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5845.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2040	2040	2040	2040	2040	
5°	2036	2031	2023	2036	2034	193
15°	1942	1943	1941	1958	1958	548
25°	1768	1770	1783	1809	1811	814
35°	1525	1535	1563	1602	1612	952
45°	1239	1261	1308	1363	1380	955
55°	936	963	1034	1102	1123	834
65°	623	665	752	826	854	618
75°	317	370	476	553	570	337
85°	62	110	143	146	146	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2040.2	2040.2	2040.2	2040.2	2040.2
2.5°	2043.1	2040.2	2029.5	2042.2	2040.2
5°	2035.5	2031.4	2022.8	2035.5	2033.5
7.5°	2019.9	2018.0	2009.4	2023.8	2021.9
10°	2000.8	1998.9	1992.2	2006.5	2003.7
12.5°	1974.0	1973.0	1968.2	1985.5	1983.5
15°	1942.2	1943.1	1941.2	1957.7	1957.7
17.5°	1905.8	1904.8	1908.6	1928.8	1926.8
20°	1863.4	1864.4	1869.2	1892.4	1892.4
22.5°	1819.4	1818.4	1829.0	1851.9	1853.9
25°	1767.5	1770.3	1782.8	1808.8	1810.8
27.5°	1711.7	1716.7	1732.0	1761.7	1764.6
30°	1653.3	1659.1	1682.0	1709.8	1713.6
32.5°	1588.9	1601.4	1622.5	1658.1	1667.7
35°	1524.6	1535.1	1563.1	1602.4	1611.9
37.5°	1453.5	1470.8	1502.6	1545.7	1558.3
40°	1383.4	1400.8	1440.1	1485.3	1498.7
42.5°	1312.3	1330.7	1375.7	1426.7	1441.1
45°	1238.6	1260.6	1308.5	1363.3	1380.5
47.5°	1162.7	1188.6	1240.5	1299.9	1319.2
50°	1087.8	1113.7	1173.3	1234.6	1252.0
52.5°	1007.2	1039.8	1103.2	1169.4	1186.7
55°	936.1	962.9	1034.0	1102.2	1123.3
57.5°	852.6	889.0	964.9	1034.0	1054.1
60°	778.7	812.2	892.8	962.9	985.9
62.5°	703.8	738.3	818.9	898.6	919.8
65°	623.1	665.3	751.7	825.6	853.6
67.5°	546.3	590.4	678.9	757.4	786.3
70°	470.5	515.5	611.6	692.3	715.3
72.5°	395.6	442.7	542.5	621.2	648.0
75°	316.8	369.7	476.2	553.0	570.3
77.5°	242.9	301.5	409.0	460.9	473.3
80°	173.7	238.1	326.4	364.0	373.5
82.5°	114.2	176.6	243.8	264.0	261.1
85°	61.5	110.3	143.1	146.0	146.0
87.5°	23.9	44.2	45.2	34.5	32.6
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)