

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: P843174

Luminaire Tested: **24CZ2-65HE-UNV-B50**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P843174
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P272125)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-65HE-UNV-B50
Description: 2X4 6500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

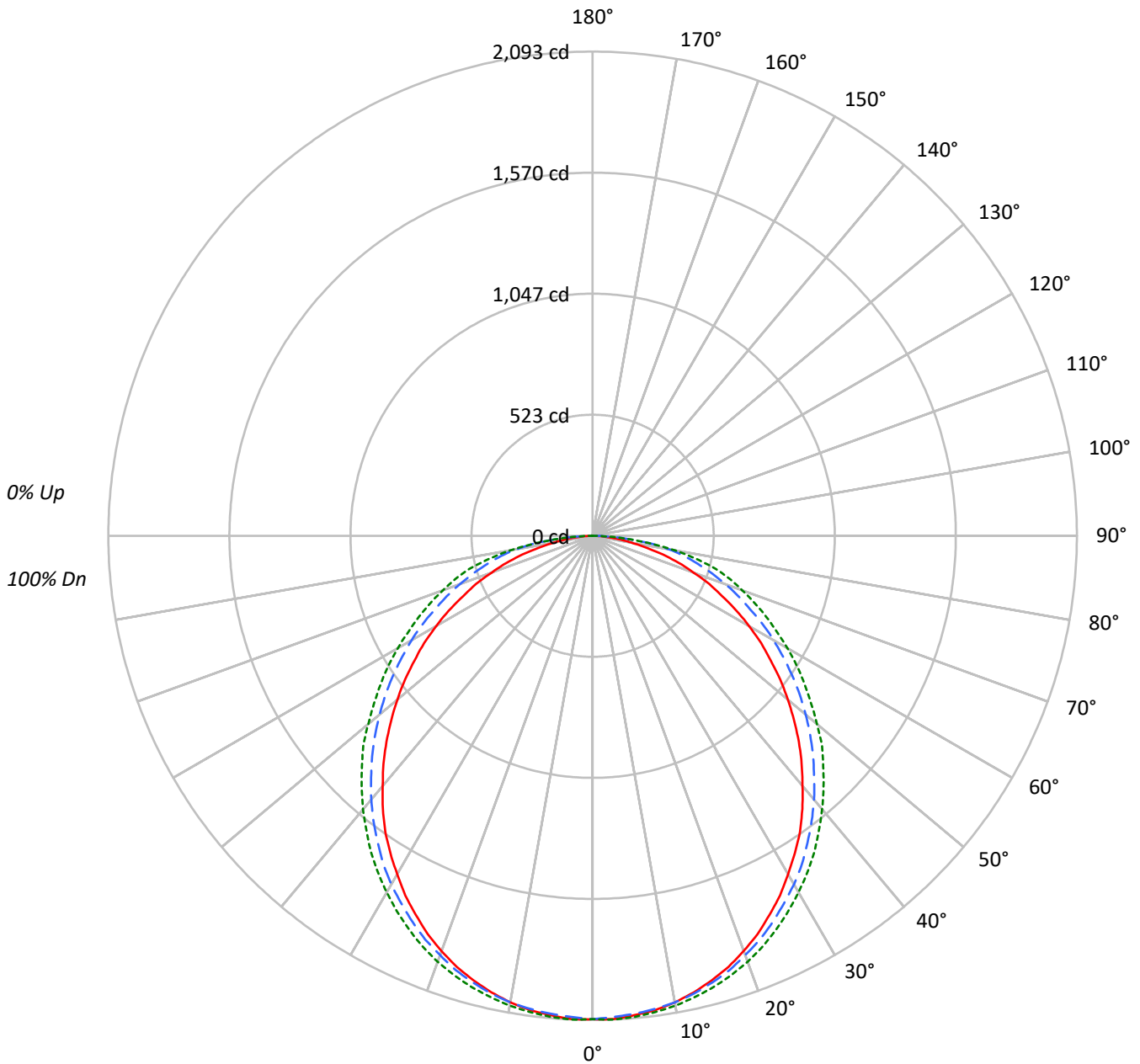
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5948.0 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
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 (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	106	101	97	93	97	93	90	93	90	88	89	87	85	83																			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69																			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58																			
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49																			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42																			
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37																			
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33																			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29																			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26																			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2949	2949	2949
5°	2947	2939	2958
10°	2935	2935	2957
15°	2907	2920	2951
20°	2869	2897	2943
25°	2816	2868	2924
30°	2753	2836	2900
35°	2692	2790	2877
40°	2600	2743	2844
45°	2515	2689	2813
50°	2419	2639	2779
55°	2310	2589	2752
60°	2203	2549	2746
65°	2063	2505	2763
70°	1910	2518	2838
75°	1711	2566	2998
80°	1382	2718	2932
85°	1040	2385	2325



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.8	3.3
10°-20°	565.2	9.5
20°-30°	849.7	14.3
30°-40°	1012.1	17.0
40°-50°	1035.9	17.4
50°-60°	932.6	15.7
60°-70°	732.4	12.3
70°-80°	475.3	8.0
80°-90°	147.0	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°	1612.7	27.1
0°-40°	2624.9	44.1
0°-60°	4593.3	77.2
0°-90°	5948.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5948.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2090	2090	2090	2090	2090	
5°	2080	2084	2074	2086	2088	198
15°	1990	1995	1999	2016	2020	561
25°	1808	1823	1842	1872	1878	833
35°	1562	1581	1619	1659	1670	975
45°	1260	1290	1347	1398	1410	972
55°	939	981	1052	1107	1119	842
65°	618	665	750	812	827	615
75°	314	374	470	535	550	332
85°	64	119	147	144	144	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2089.7	2089.7	2089.7	2089.7	2089.7
2.5°	2091.5	2091.5	2081.9	2091.5	2093.3
5°	2080.1	2084.0	2074.4	2085.8	2087.6
7.5°	2068.7	2068.7	2063.0	2074.4	2076.5
10°	2048.0	2049.8	2048.0	2061.2	2063.0
12.5°	2021.6	2025.2	2027.3	2040.5	2042.3
15°	1989.5	1995.2	1998.8	2015.9	2019.8
17.5°	1953.5	1959.2	1968.6	1987.5	1991.3
20°	1910.1	1917.6	1929.0	1953.5	1959.2
22.5°	1862.9	1870.5	1889.4	1911.9	1921.4
25°	1808.1	1823.1	1842.0	1872.3	1878.0
27.5°	1753.2	1766.4	1791.0	1823.1	1830.9
30°	1689.0	1709.7	1740.0	1772.1	1779.6
32.5°	1626.7	1647.4	1683.3	1717.5	1726.8
35°	1562.5	1581.4	1619.2	1658.8	1670.1
37.5°	1488.7	1513.3	1555.0	1594.6	1605.9
40°	1411.3	1441.6	1488.7	1530.4	1543.6
42.5°	1337.6	1369.7	1417.0	1462.3	1477.3
45°	1260.2	1290.4	1347.1	1398.1	1409.5
47.5°	1180.7	1214.9	1275.2	1326.2	1345.1
50°	1101.5	1137.5	1201.7	1254.5	1265.9
52.5°	1022.1	1059.9	1127.9	1184.6	1190.3
55°	939.0	980.6	1052.3	1107.2	1118.6
57.5°	863.4	899.4	976.8	1033.5	1046.7
60°	780.3	819.9	903.0	956.1	972.9
62.5°	700.9	742.5	829.5	882.3	897.3
65°	617.8	665.1	750.0	812.4	827.4
67.5°	546.1	591.4	682.0	742.5	757.6
70°	462.8	514.0	610.3	672.7	687.7
72.5°	391.1	443.9	540.4	600.7	623.5
75°	313.7	374.0	470.5	534.7	549.7
77.5°	238.1	308.0	406.1	455.3	455.3
80°	170.0	243.8	334.4	357.2	360.8
82.5°	111.5	183.2	247.4	245.6	245.6
85°	64.2	119.1	147.3	143.6	143.6
87.5°	24.6	49.2	52.8	52.8	51.0
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)