

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: P843173

Luminaire Tested: **24CZ2-65HE-UNV-B40**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P843173
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-B40
Description: 2X4 6500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Summary

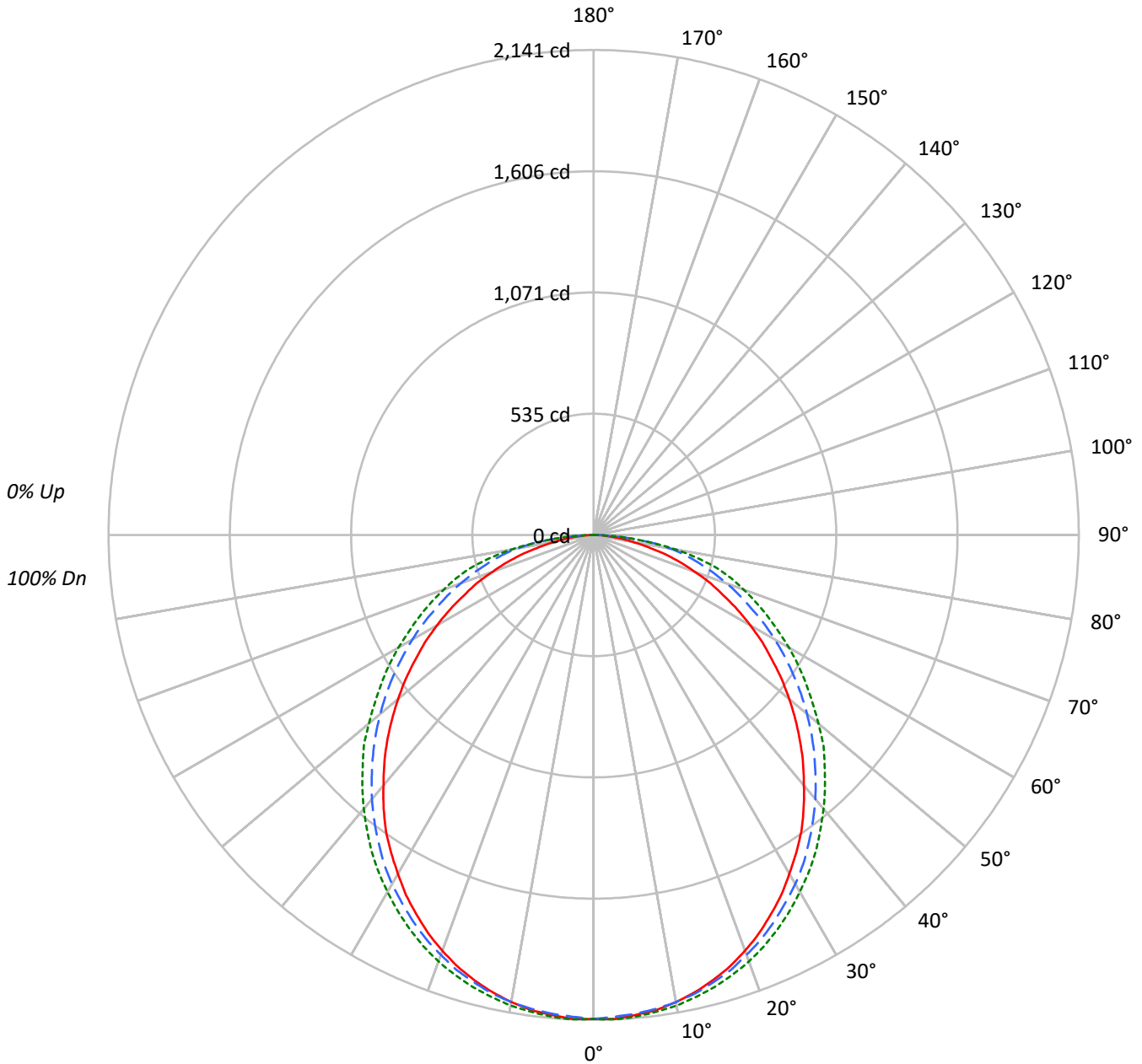
Lumens per Lamp: N/A
Luminaire Lumens: 6083.0 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 50
Input Voltage (V): NR
Input Current (A_{in}): 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°	3016	3016	3016
5°	3014	3006	3025
10°	3002	3002	3024
15°	2973	2987	3018
20°	2934	2963	3009
25°	2879	2934	2991
30°	2815	2900	2966
35°	2753	2853	2943
40°	2659	2805	2908
45°	2572	2750	2877
50°	2473	2698	2842
55°	2363	2648	2815
60°	2252	2607	2809
65°	2110	2562	2826
70°	1953	2575	2902
75°	1749	2624	3066
80°	1413	2780	2999
85°	1062	2439	2379



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.3	3.3
10°-20°	578.1	9.5
20°-30°	869.0	14.3
30°-40°	1035.1	17.0
40°-50°	1059.4	17.4
50°-60°	953.8	15.7
60°-70°	749.0	12.3
70°-80°	486.1	8.0
80°-90°	150.3	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°	1649.3	27.1
0°-40°	2684.4	44.1
0°-60°	4697.6	77.2
0°-90°	6083.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6083.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2137	2137	2137	2137	2137	
5°	2127	2131	2122	2133	2135	202
15°	2035	2040	2044	2062	2066	574
25°	1849	1864	1884	1915	1921	852
35°	1598	1617	1656	1696	1708	997
45°	1289	1320	1378	1430	1442	994
55°	960	1003	1076	1132	1144	861
65°	632	680	767	831	846	629
75°	321	382	481	547	562	339
85°	66	122	151	147	147	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2137.1	2137.1	2137.1	2137.1	2137.1
2.5°	2139.0	2139.0	2129.2	2139.0	2140.8
5°	2127.3	2131.3	2121.5	2133.1	2135.0
7.5°	2115.7	2115.7	2109.9	2121.5	2123.6
10°	2094.5	2096.4	2094.5	2108.0	2109.9
12.5°	2067.5	2071.2	2073.3	2086.8	2088.7
15°	2034.7	2040.5	2044.2	2061.7	2065.6
17.5°	1997.9	2003.7	2013.2	2032.6	2036.5
20°	1953.4	1961.1	1972.7	1997.9	2003.7
22.5°	1905.2	1912.9	1932.2	1955.3	1965.1
25°	1849.1	1864.5	1883.8	1914.8	1920.6
27.5°	1793.0	1806.5	1831.7	1864.5	1872.4
30°	1727.4	1748.6	1779.5	1812.3	1820.0
32.5°	1663.6	1684.8	1721.6	1756.5	1766.0
35°	1597.9	1617.3	1655.9	1696.4	1708.0
37.5°	1522.5	1547.6	1590.3	1630.8	1642.4
40°	1443.4	1474.3	1522.5	1565.1	1578.6
42.5°	1367.9	1400.8	1449.2	1495.5	1510.9
45°	1288.8	1319.7	1377.7	1429.9	1441.5
47.5°	1207.5	1242.4	1304.1	1356.3	1375.6
50°	1126.5	1163.3	1228.9	1283.0	1294.6
52.5°	1045.3	1083.9	1153.5	1211.5	1217.3
55°	960.3	1002.9	1076.2	1132.3	1144.0
57.5°	883.0	919.8	998.9	1056.9	1070.4
60°	798.0	838.5	923.5	977.8	995.0
62.5°	716.8	759.4	848.3	902.3	917.7
65°	631.8	680.2	767.1	830.9	846.2
67.5°	558.5	604.8	697.5	759.4	774.8
70°	473.3	525.7	624.1	687.9	703.3
72.5°	399.9	454.0	552.7	614.4	637.6
75°	320.8	382.5	481.2	546.8	562.2
77.5°	243.5	315.0	415.3	465.6	465.6
80°	173.9	249.3	342.0	365.3	369.0
82.5°	114.1	187.4	253.1	251.2	251.2
85°	65.6	121.8	150.6	146.9	146.9
87.5°	25.1	50.3	54.0	54.0	52.1
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)