

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: P843167

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

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P843167
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-S-UNV-B40
Description: 2X4 6500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Summary

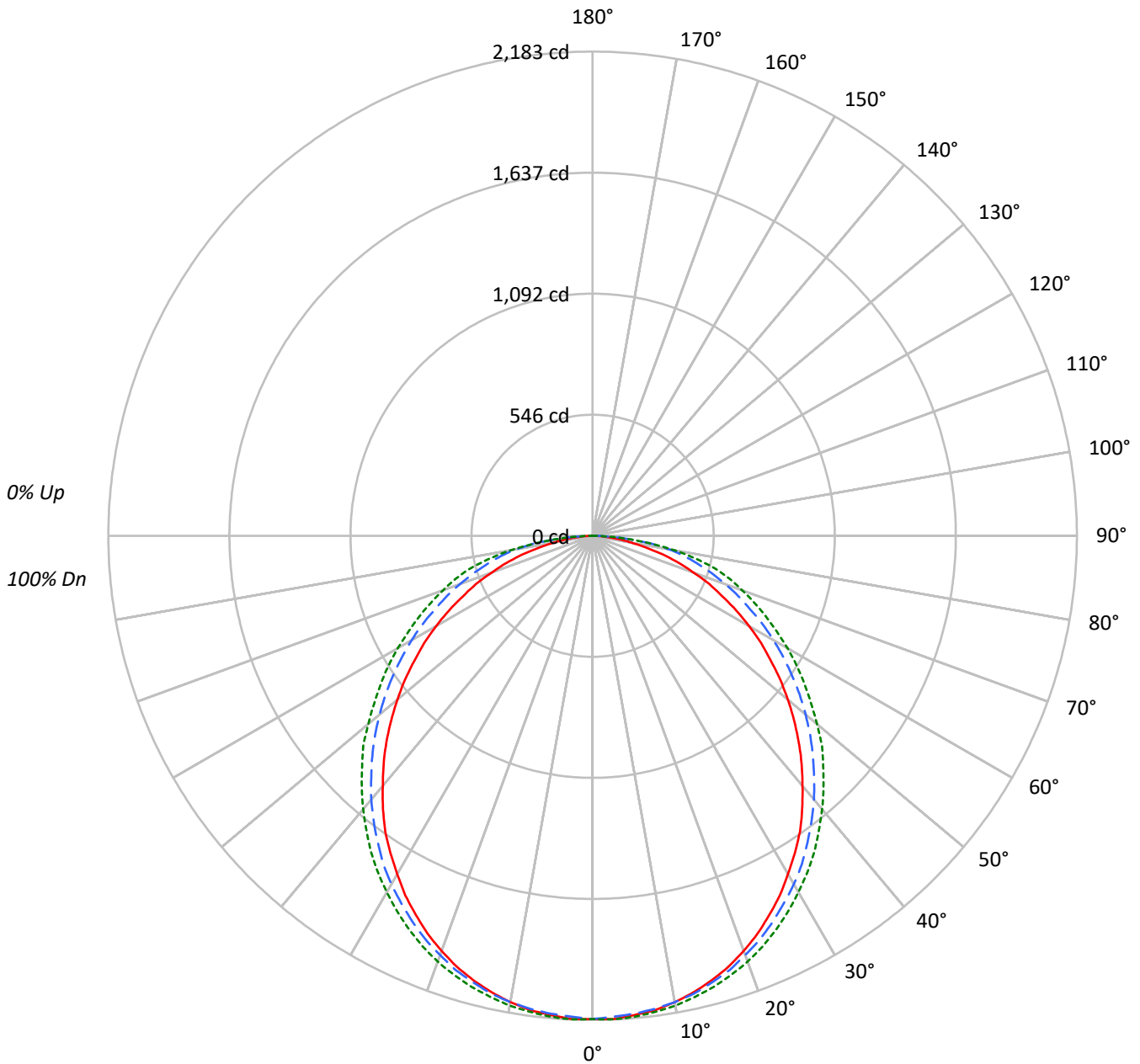
Lumens per Lamp: N/A
Luminaire Lumens: 6202.0 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 50
Input Voltage (V): NR
Input Current (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°	3075	3075	3075
5°	3073	3064	3084
10°	3060	3060	3083
15°	3031	3045	3077
20°	2991	3021	3068
25°	2936	2991	3049
30°	2870	2957	3024
35°	2807	2909	3000
40°	2711	2860	2965
45°	2623	2804	2933
50°	2522	2751	2898
55°	2409	2700	2870
60°	2297	2658	2863
65°	2151	2612	2881
70°	1991	2626	2959
75°	1784	2675	3126
80°	1441	2834	3058
85°	1083	2487	2426



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.3	3.3
10°-20°	589.4	9.5
20°-30°	886.0	14.3
30°-40°	1055.3	17.0
40°-50°	1080.1	17.4
50°-60°	972.4	15.7
60°-70°	763.6	12.3
70°-80°	495.6	8.0
80°-90°	153.3	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°	1681.6	27.1
0°-40°	2736.9	44.1
0°-60°	4789.5	77.2
0°-90°	6202.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6202.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2179	2179	2179	2179	2179	
5°	2169	2173	2163	2175	2177	206
15°	2074	2080	2084	2102	2106	585
25°	1885	1901	1921	1952	1958	868
35°	1629	1649	1688	1730	1742	1016
45°	1314	1346	1405	1458	1470	1013
55°	979	1022	1097	1154	1166	878
65°	644	694	782	847	863	641
75°	327	390	491	558	573	346
85°	67	124	154	150	150	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2178.9	2178.9	2178.9	2178.9	2178.9
2.5°	2180.8	2180.8	2170.8	2180.8	2182.7
5°	2168.9	2173.0	2163.0	2174.9	2176.8
7.5°	2157.1	2157.1	2151.1	2163.0	2165.1
10°	2135.5	2137.4	2135.5	2149.2	2151.1
12.5°	2107.9	2111.7	2113.9	2127.6	2129.5
15°	2074.5	2080.4	2084.2	2102.0	2106.0
17.5°	2037.0	2042.9	2052.6	2072.3	2076.4
20°	1991.6	1999.5	2011.3	2037.0	2042.9
22.5°	1942.5	1950.3	1970.0	1993.5	2003.5
25°	1885.3	1901.0	1920.7	1952.2	1958.2
27.5°	1828.1	1841.9	1867.5	1901.0	1909.0
30°	1761.2	1782.8	1814.3	1847.8	1855.6
32.5°	1696.1	1717.7	1755.2	1790.8	1800.6
35°	1629.2	1648.9	1688.3	1729.6	1741.5
37.5°	1552.3	1577.9	1621.4	1662.7	1674.5
40°	1471.6	1503.2	1552.3	1595.7	1609.5
42.5°	1394.7	1428.2	1477.5	1524.8	1540.4
45°	1314.0	1345.6	1404.7	1457.8	1469.7
47.5°	1231.2	1266.8	1329.7	1382.8	1402.5
50°	1148.6	1186.1	1253.0	1308.1	1319.9
52.5°	1065.7	1105.1	1176.1	1235.2	1241.1
55°	979.1	1022.5	1097.3	1154.5	1166.4
57.5°	900.3	937.8	1018.5	1077.6	1091.4
60°	813.6	854.9	941.6	996.9	1014.4
62.5°	730.8	774.2	864.9	920.0	935.6
65°	644.2	693.5	782.1	847.1	862.8
67.5°	569.4	616.6	711.1	774.2	789.9
70°	482.5	535.9	636.3	701.4	717.0
72.5°	407.8	462.8	563.5	626.4	650.1
75°	327.1	390.0	490.6	557.5	573.2
77.5°	248.3	321.1	423.4	474.7	474.7
80°	177.3	254.2	348.7	372.4	376.2
82.5°	116.3	191.1	258.0	256.1	256.1
85°	66.9	124.1	153.6	149.8	149.8
87.5°	25.6	51.3	55.1	55.1	53.2
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)