

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: P881263

Luminaire Tested: **24CZ2-65VHE-S-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: P881263
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: 24CZ2-65VHE-S-UNV-B35
Description: 2X4 6500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

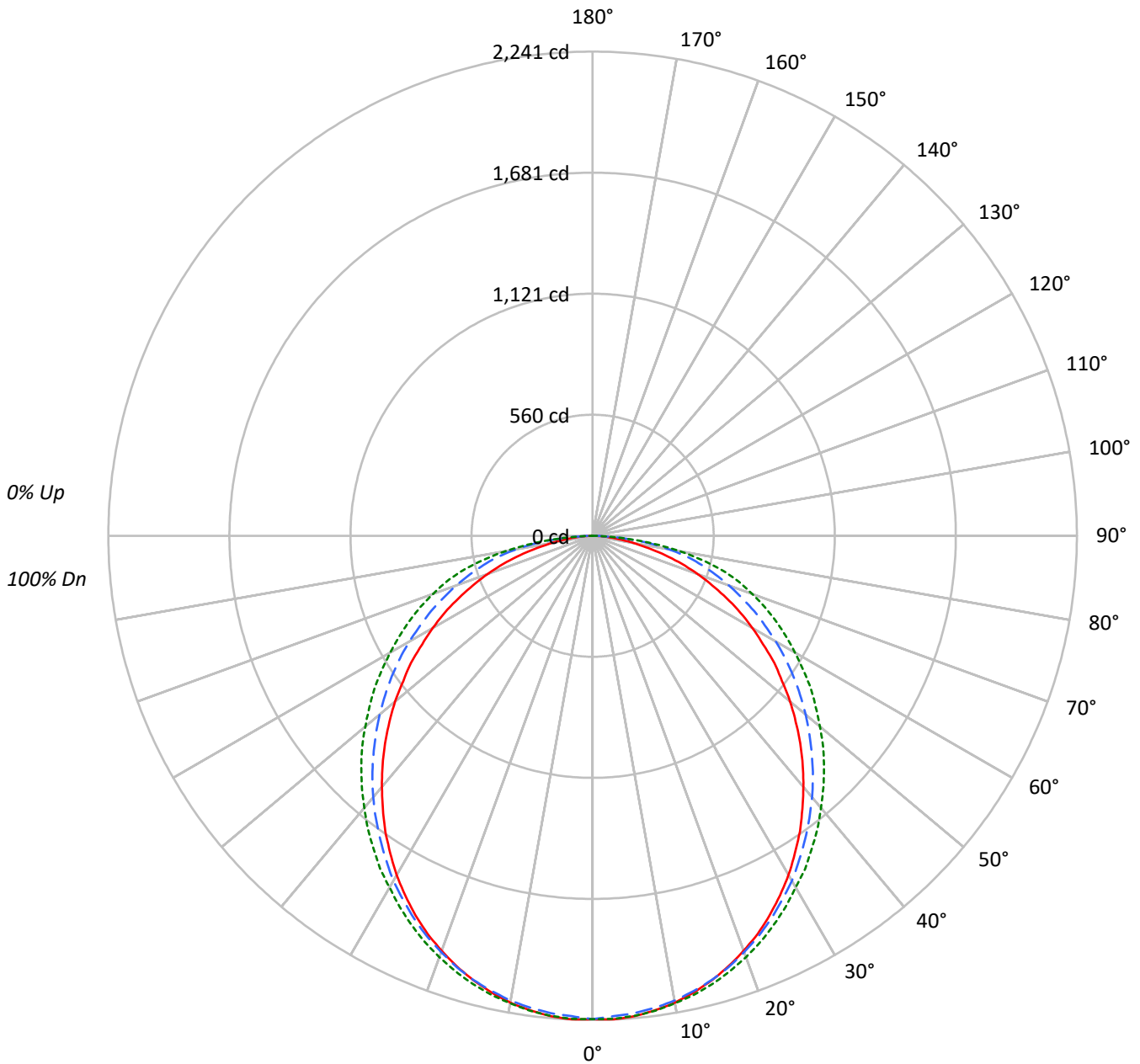
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6410.0 lumens
Efficiency: N/A
Efficacy: 125.7 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): 51
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°	3158	3158	3158
5°	3162	3143	3159
10°	3145	3131	3149
15°	3112	3111	3137
20°	3069	3079	3117
25°	3018	3045	3092
30°	2955	3006	3063
35°	2881	2953	3046
40°	2795	2910	3028
45°	2711	2864	3022
50°	2619	2825	3015
55°	2526	2790	3031
60°	2410	2764	3052
65°	2282	2753	3126
70°	2129	2768	3237
75°	1895	2848	3410
80°	1548	2910	3329
85°	1091	2541	2593



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.5	3.3
10°-20°	602.4	9.4
20°-30°	903.1	14.1
30°-40°	1075.5	16.8
40°-50°	1109.0	17.3
50°-60°	1012.0	15.8
60°-70°	809.2	12.6
70°-80°	528.6	8.2
80°-90°	158.7	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°	1717.0	26.8
0°-40°	2792.6	43.6
0°-60°	4913.5	76.7
0°-90°	6410.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6410.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2238	2238	2238	2238	2238	
5°	2232	2228	2218	2232	2230	212
15°	2130	2131	2129	2147	2147	600
25°	1938	1942	1955	1984	1986	892
35°	1672	1684	1714	1757	1768	1044
45°	1358	1382	1435	1495	1514	1047
55°	1027	1056	1134	1209	1232	914
65°	683	730	824	905	936	678
75°	348	405	522	606	625	369
85°	67	121	157	160	160	85
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2237.5	2237.5	2237.5	2237.5	2237.5
2.5°	2240.6	2237.5	2225.7	2239.6	2237.5
5°	2232.2	2227.8	2218.3	2232.2	2230.1
7.5°	2215.2	2213.1	2203.6	2219.4	2217.3
10°	2194.2	2192.1	2184.7	2200.5	2197.3
12.5°	2164.8	2163.7	2158.5	2177.4	2175.3
15°	2129.9	2131.0	2128.9	2146.9	2146.9
17.5°	2090.0	2088.9	2093.1	2115.2	2113.1
20°	2043.6	2044.6	2049.9	2075.3	2075.3
22.5°	1995.3	1994.2	2005.8	2031.0	2033.1
25°	1938.3	1941.5	1955.1	1983.7	1985.8
27.5°	1877.2	1882.7	1899.5	1932.0	1935.2
30°	1813.1	1819.4	1844.6	1875.1	1879.3
32.5°	1742.5	1756.2	1779.3	1818.4	1828.9
35°	1672.0	1683.5	1714.2	1757.2	1767.7
37.5°	1594.0	1612.9	1647.8	1695.1	1708.9
40°	1517.1	1536.2	1579.3	1628.9	1643.6
42.5°	1439.2	1459.4	1508.7	1564.6	1580.4
45°	1358.3	1382.5	1435.0	1495.1	1514.0
47.5°	1275.1	1303.5	1360.4	1425.5	1446.8
50°	1193.0	1221.4	1286.7	1353.9	1373.0
52.5°	1104.6	1140.3	1209.8	1282.5	1301.4
55°	1026.6	1056.0	1134.0	1208.7	1231.9
57.5°	935.0	974.9	1058.1	1134.0	1156.0
60°	853.9	890.7	979.1	1056.0	1081.2
62.5°	771.8	809.6	898.1	985.4	1008.8
65°	683.4	729.6	824.3	905.4	936.1
67.5°	599.1	647.4	744.5	830.6	862.3
70°	515.9	565.3	670.8	759.2	784.4
72.5°	433.8	485.5	594.9	681.3	710.7
75°	347.5	405.4	522.2	606.5	625.4
77.5°	266.4	330.7	448.5	505.4	519.1
80°	190.5	261.1	358.0	399.1	409.6
82.5°	125.2	193.7	267.4	289.5	286.3
85°	67.4	121.0	156.9	160.1	160.1
87.5°	26.3	48.5	49.6	37.8	35.7
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)