

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: P880987

Luminaire Tested: **24CZ2-65VHE-S-B2750-W2D-2700K**

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: P880987
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-B2750-W2D-2700K
Description: 2X4 6500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

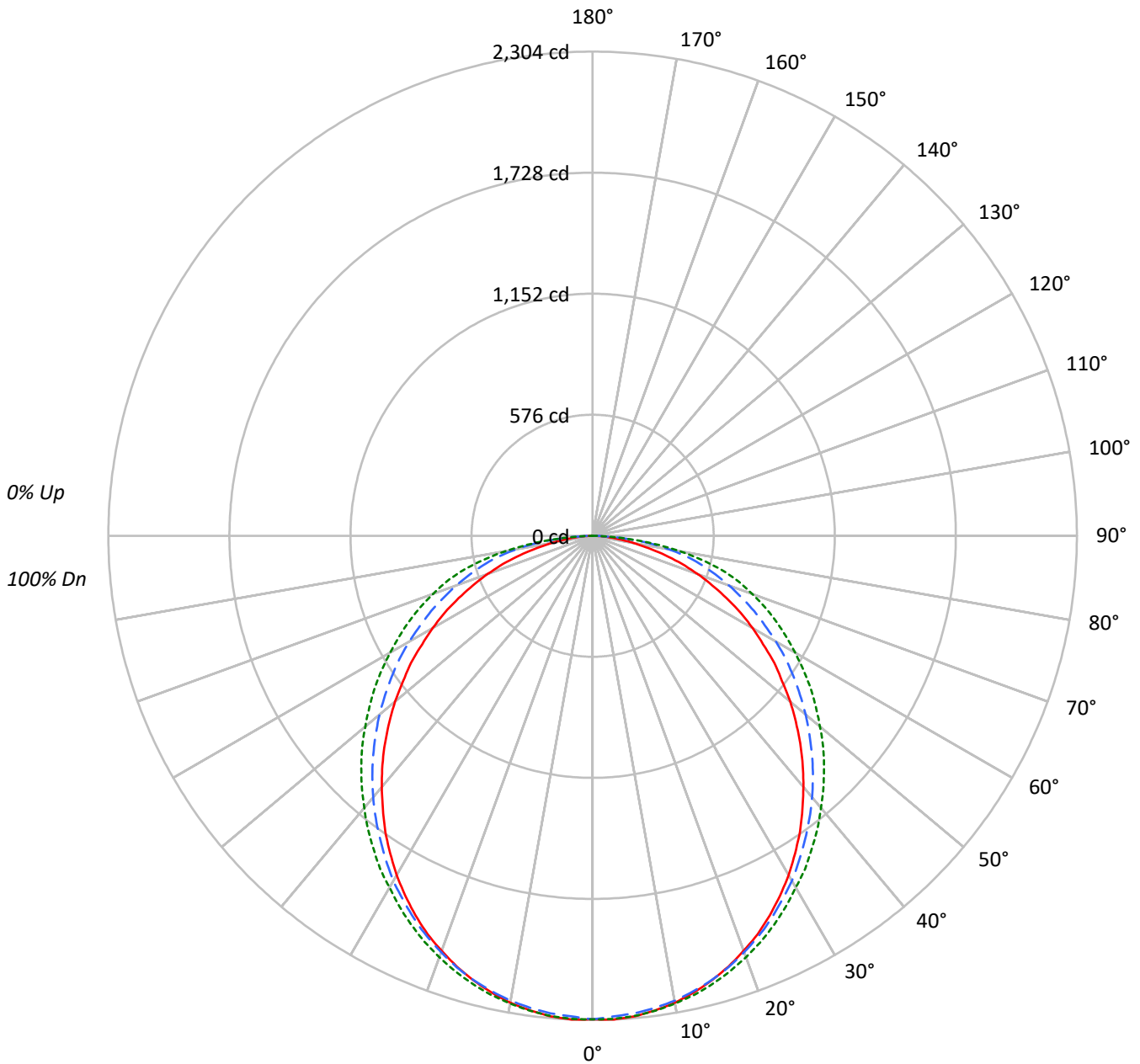
Lumens per Lamp: N/A
Luminaire Lumens: 6592.0 lumens
Efficiency: N/A
Efficacy: 129.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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					20					
RC	80					70					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°	3247	3247	3247
5°	3252	3232	3249
10°	3234	3220	3238
15°	3200	3199	3226
20°	3156	3166	3205
25°	3104	3131	3180
30°	3039	3091	3150
35°	2962	3037	3132
40°	2874	2992	3114
45°	2788	2945	3108
50°	2694	2905	3100
55°	2598	2870	3117
60°	2479	2842	3139
65°	2347	2831	3215
70°	2190	2846	3329
75°	1948	2929	3507
80°	1592	2992	3424
85°	1122	2614	2665



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.5	3.3
10°-20°	619.6	9.4
20°-30°	928.7	14.1
30°-40°	1106.1	16.8
40°-50°	1140.5	17.3
50°-60°	1040.7	15.8
60°-70°	832.2	12.6
70°-80°	543.6	8.2
80°-90°	163.2	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°	1765.8	26.8
0°-40°	2871.9	43.6
0°-60°	5053.0	76.7
0°-90°	6592.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6592.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2301	2301	2301	2301	2301	
5°	2296	2291	2281	2296	2293	218
15°	2190	2192	2189	2208	2208	617
25°	1993	1997	2011	2040	2042	918
35°	1719	1731	1763	1807	1818	1074
45°	1397	1422	1476	1538	1557	1077
55°	1056	1086	1166	1243	1267	940
65°	703	750	848	931	963	697
75°	357	417	537	624	643	380
85°	69	124	161	165	165	88
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2301.0	2301.0	2301.0	2301.0	2301.0
2.5°	2304.2	2301.0	2288.9	2303.2	2301.0
5°	2295.6	2291.1	2281.3	2295.6	2293.4
7.5°	2278.1	2275.9	2266.2	2282.4	2280.3
10°	2256.5	2254.3	2246.8	2263.0	2259.7
12.5°	2226.2	2225.2	2219.8	2239.2	2237.0
15°	2190.4	2191.5	2189.3	2207.9	2207.9
17.5°	2149.3	2148.3	2152.6	2175.3	2173.1
20°	2101.6	2102.7	2108.1	2134.2	2134.2
22.5°	2051.9	2050.8	2062.7	2088.6	2090.8
25°	1993.4	1996.6	2010.6	2040.0	2042.2
27.5°	1930.5	1936.1	1953.4	1986.9	1990.1
30°	1864.6	1871.1	1897.0	1928.3	1932.7
32.5°	1792.0	1806.1	1829.8	1870.0	1880.8
35°	1719.4	1731.3	1762.8	1807.1	1817.9
37.5°	1639.3	1658.7	1694.6	1743.2	1757.4
40°	1560.2	1579.9	1624.2	1675.1	1690.3
42.5°	1480.1	1500.8	1551.6	1609.0	1625.2
45°	1396.9	1421.7	1475.7	1537.5	1557.0
47.5°	1311.3	1340.5	1399.0	1466.0	1487.8
50°	1226.9	1256.0	1323.2	1392.3	1412.0
52.5°	1135.9	1172.6	1244.1	1318.9	1338.3
55°	1055.8	1086.0	1166.2	1243.1	1266.8
57.5°	961.6	1002.6	1088.2	1166.2	1188.8
60°	878.2	916.0	1006.9	1086.0	1111.9
62.5°	793.7	832.6	923.6	1013.4	1037.4
65°	702.8	750.3	847.7	931.1	962.7
67.5°	616.1	665.8	765.6	854.2	886.8
70°	530.6	581.4	689.8	780.8	806.7
72.5°	446.1	499.3	611.8	700.6	730.8
75°	357.3	416.9	537.1	623.7	643.1
77.5°	273.9	340.0	461.2	519.8	533.8
80°	195.9	268.5	368.1	410.5	421.3
82.5°	128.8	199.2	275.0	297.7	294.5
85°	69.3	124.4	161.4	164.6	164.6
87.5°	27.0	49.9	51.0	38.9	36.7
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)