

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: P880972

Luminaire Tested: **24CZ2-65VHE-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: P880972
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P473819)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-65VHE-B2750-W2D-2700K
Description: 2X4 6500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

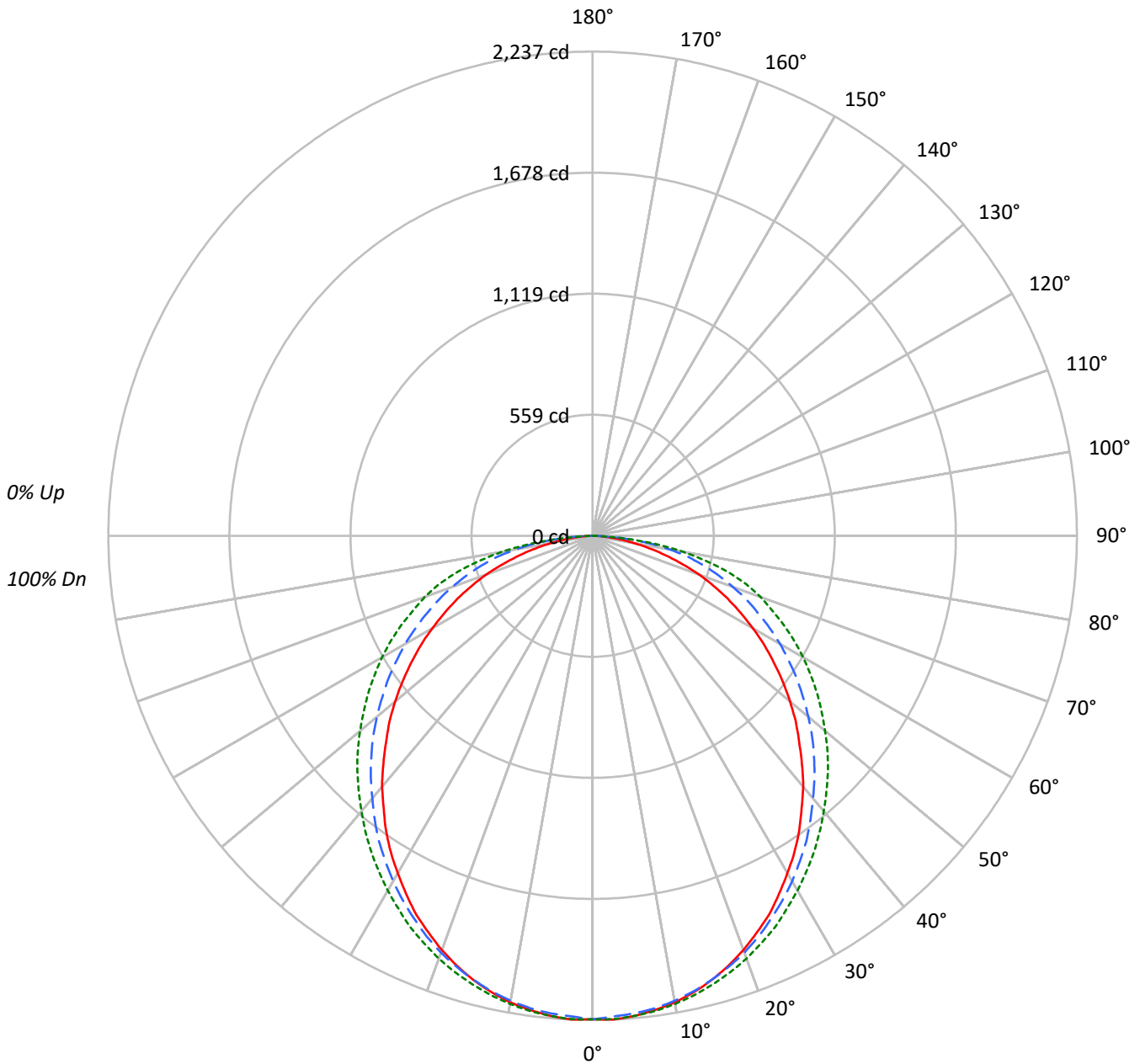
Lumens per Lamp: N/A
Luminaire Lumens: 6465.0 lumens
Efficiency: N/A
Efficacy: 126.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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	89	82	76	95	88	81	75	84	78	74	81	76	72	78	74	70	68								
3	89	78	70	63	87	77	69	63	74	67	61	71	65	60	68	63	59	57								
4	82	69	60	53	79	68	59	53	65	58	52	63	57	51	61	55	51	48								
5	75	62	53	46	73	61	52	46	58	51	45	56	50	44	55	49	44	42								
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	37								
7	64	50	41	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32								
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29								
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26								
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3153	3153	3153
5°	3155	3138	3155
10°	3137	3127	3148
15°	3105	3104	3135
20°	3059	3078	3122
25°	3006	3040	3106
30°	2933	3004	3084
35°	2867	2966	3072
40°	2788	2917	3060
45°	2693	2887	3069
50°	2612	2855	3078
55°	2516	2835	3112
60°	2412	2822	3169
65°	2298	2812	3251
70°	2164	2840	3400
75°	1903	2899	3537
80°	1588	2920	3412
85°	1135	2502	2536



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.2	3.3
10°-20°	601.5	9.3
20°-30°	902.4	14.0
30°-40°	1077.4	16.7
40°-50°	1116.0	17.3
50°-60°	1027.4	15.9
60°-70°	828.8	12.8
70°-80°	541.5	8.4
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°	1715.2	26.5
0°-40°	2792.6	43.2
0°-60°	4936.0	76.3
0°-90°	6465.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6465.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2234	2234	2234	2234	2234	
5°	2227	2225	2215	2228	2227	211
15°	2125	2125	2124	2145	2145	599
25°	1930	1934	1952	1988	1995	887
35°	1664	1678	1721	1768	1783	1039
45°	1349	1383	1446	1511	1537	1043
55°	1022	1066	1152	1237	1265	915
65°	688	735	842	938	974	681
75°	349	415	532	624	649	372
85°	70	121	154	164	157	87
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2234.0	2234.0	2234.0	2234.0	2234.0
2.5°	2237.1	2234.0	2222.5	2236.1	2235.1
5°	2226.7	2224.6	2215.2	2227.8	2226.7
7.5°	2210.0	2209.0	2201.7	2215.2	2215.2
10°	2189.2	2187.1	2181.9	2197.5	2196.5
12.5°	2160.0	2158.9	2155.8	2174.6	2173.5
15°	2125.4	2125.4	2124.3	2145.4	2145.4
17.5°	2083.6	2084.7	2088.9	2112.8	2113.9
20°	2036.7	2040.9	2049.2	2076.3	2078.4
22.5°	1983.3	1991.7	2003.1	2033.6	2036.7
25°	1930.2	1934.3	1952.1	1987.5	1994.8
27.5°	1865.3	1875.9	1898.9	1935.4	1942.7
30°	1799.6	1814.2	1843.4	1881.1	1892.6
32.5°	1734.7	1747.5	1781.9	1824.6	1838.2
35°	1663.8	1678.4	1721.2	1768.3	1782.9
37.5°	1585.4	1608.4	1653.4	1707.6	1723.3
40°	1513.5	1534.3	1583.3	1644.0	1660.7
42.5°	1430.9	1456.9	1516.6	1578.1	1599.0
45°	1349.3	1382.9	1446.5	1511.4	1537.4
47.5°	1273.2	1300.3	1375.6	1448.6	1471.5
50°	1189.6	1220.9	1300.3	1377.7	1401.7
52.5°	1107.2	1144.7	1225.0	1306.6	1332.7
55°	1022.5	1066.3	1152.0	1236.7	1264.9
57.5°	941.0	985.0	1073.6	1163.5	1192.7
60°	854.4	901.4	999.6	1086.1	1122.8
62.5°	770.8	817.7	921.2	1015.2	1049.6
65°	688.2	735.4	841.9	937.9	973.5
67.5°	602.7	653.8	767.7	860.7	895.1
70°	524.3	573.3	688.2	787.5	824.0
72.5°	434.4	493.0	610.0	708.0	742.7
75°	348.9	414.6	531.6	623.6	648.6
77.5°	269.4	335.4	452.1	521.2	536.8
80°	195.4	262.2	359.3	407.3	419.8
82.5°	126.4	195.4	260.1	292.4	296.6
85°	70.1	121.2	154.5	163.9	156.6
87.5°	25.0	45.9	44.8	36.5	29.2
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)