

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: P880922

Luminaire Tested: **24CZ2-55VHE-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: P880922
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: 24CZ2-55VHE-B2750-W2D-2700K
Description: 2X4 5500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 2700K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

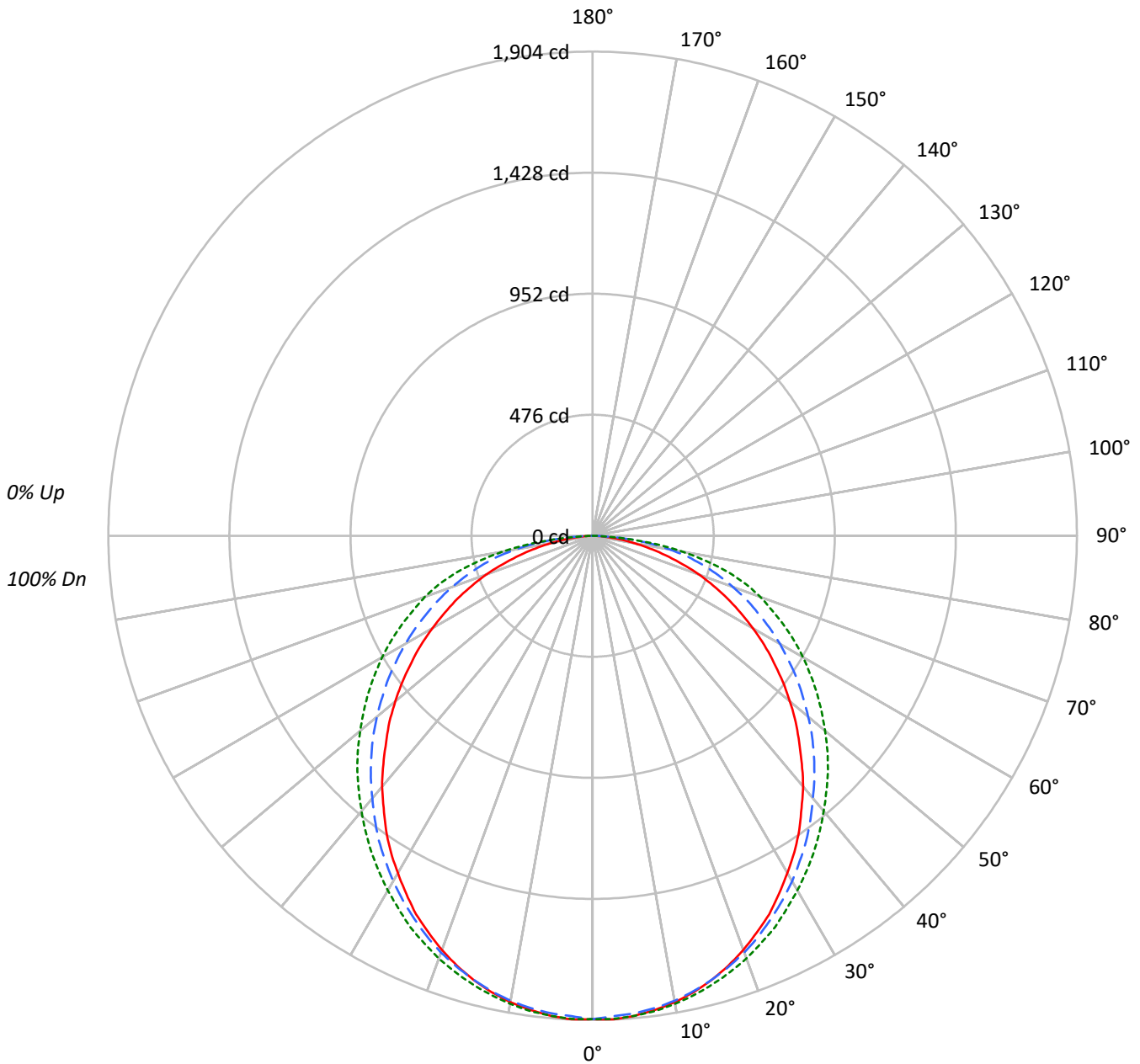
Lumens per Lamp: N/A
Luminaire Lumens: 5501.0 lumens
Efficiency: N/A
Efficacy: 127.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 43
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°	2683	2683	2683
5°	2684	2670	2684
10°	2669	2661	2678
15°	2642	2641	2667
20°	2603	2619	2656
25°	2557	2587	2643
30°	2496	2556	2624
35°	2439	2523	2614
40°	2373	2482	2603
45°	2292	2457	2611
50°	2222	2429	2619
55°	2141	2412	2648
60°	2052	2401	2697
65°	1956	2392	2766
70°	1841	2416	2893
75°	1619	2466	3010
80°	1352	2485	2903
85°	965	2129	2159



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.7	3.3
10°-20°	511.9	9.3
20°-30°	767.9	14.0
30°-40°	916.8	16.7
40°-50°	949.6	17.3
50°-60°	874.2	15.9
60°-70°	705.2	12.8
70°-80°	460.8	8.4
80°-90°	135.1	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°	1459.4	26.5
0°-40°	2376.2	43.2
0°-60°	4200.0	76.3
0°-90°	5501.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5501.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1901	1901	1901	1901	1901	
5°	1895	1893	1885	1896	1895	180
15°	1808	1808	1808	1826	1826	510
25°	1642	1646	1661	1691	1697	755
35°	1416	1428	1464	1505	1517	884
45°	1148	1177	1231	1286	1308	888
55°	870	907	980	1052	1076	779
65°	586	626	716	798	828	579
75°	297	353	452	531	552	317
85°	60	103	132	140	133	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1900.9	1900.9	1900.9	1900.9	1900.9
2.5°	1903.6	1900.9	1891.1	1902.7	1901.8
5°	1894.7	1892.9	1884.9	1895.6	1894.7
7.5°	1880.5	1879.6	1873.4	1884.9	1884.9
10°	1862.7	1861.0	1856.5	1869.8	1869.0
12.5°	1837.9	1837.0	1834.4	1850.3	1849.4
15°	1808.4	1808.4	1807.6	1825.5	1825.5
17.5°	1773.0	1773.8	1777.4	1797.8	1798.7
20°	1733.0	1736.6	1743.7	1766.7	1768.5
22.5°	1687.6	1694.7	1704.5	1730.4	1733.0
25°	1642.3	1645.9	1661.0	1691.1	1697.4
27.5°	1587.2	1596.2	1615.7	1646.8	1653.0
30°	1531.3	1543.7	1568.5	1600.6	1610.4
32.5°	1476.1	1486.9	1516.2	1552.6	1564.1
35°	1415.7	1428.2	1464.5	1504.6	1517.1
37.5°	1349.0	1368.5	1406.9	1453.0	1466.3
40°	1287.8	1305.5	1347.2	1398.9	1413.1
42.5°	1217.5	1239.7	1290.5	1342.8	1360.5
45°	1148.1	1176.7	1230.8	1286.0	1308.2
47.5°	1083.4	1106.4	1170.5	1232.6	1252.1
50°	1012.2	1038.8	1106.4	1172.3	1192.7
52.5°	942.1	974.1	1042.4	1111.8	1133.9
55°	870.1	907.3	980.3	1052.3	1076.3
57.5°	800.7	838.1	913.5	990.0	1014.9
60°	727.0	767.0	850.5	924.2	955.4
62.5°	655.9	695.8	783.8	863.9	893.1
65°	585.6	625.7	716.4	798.0	828.4
67.5°	512.8	556.3	653.2	732.4	761.6
70°	446.1	487.8	585.6	670.1	701.1
72.5°	369.6	419.5	519.1	602.5	631.9
75°	296.9	352.8	452.3	530.6	551.9
77.5°	229.3	285.3	384.7	443.5	456.8
80°	166.3	223.1	305.8	346.6	357.2
82.5°	107.5	166.3	221.3	248.8	252.3
85°	59.6	103.1	131.5	139.5	133.3
87.5°	21.3	39.0	38.2	31.1	24.8
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)