

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: P880938

Luminaire Tested: **24CZ2-55VHE-S-B2750-W2D-3000K**

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: P880938
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: 24CZ2-55VHE-S-B2750-W2D-3000K
Description: 2X4 5500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

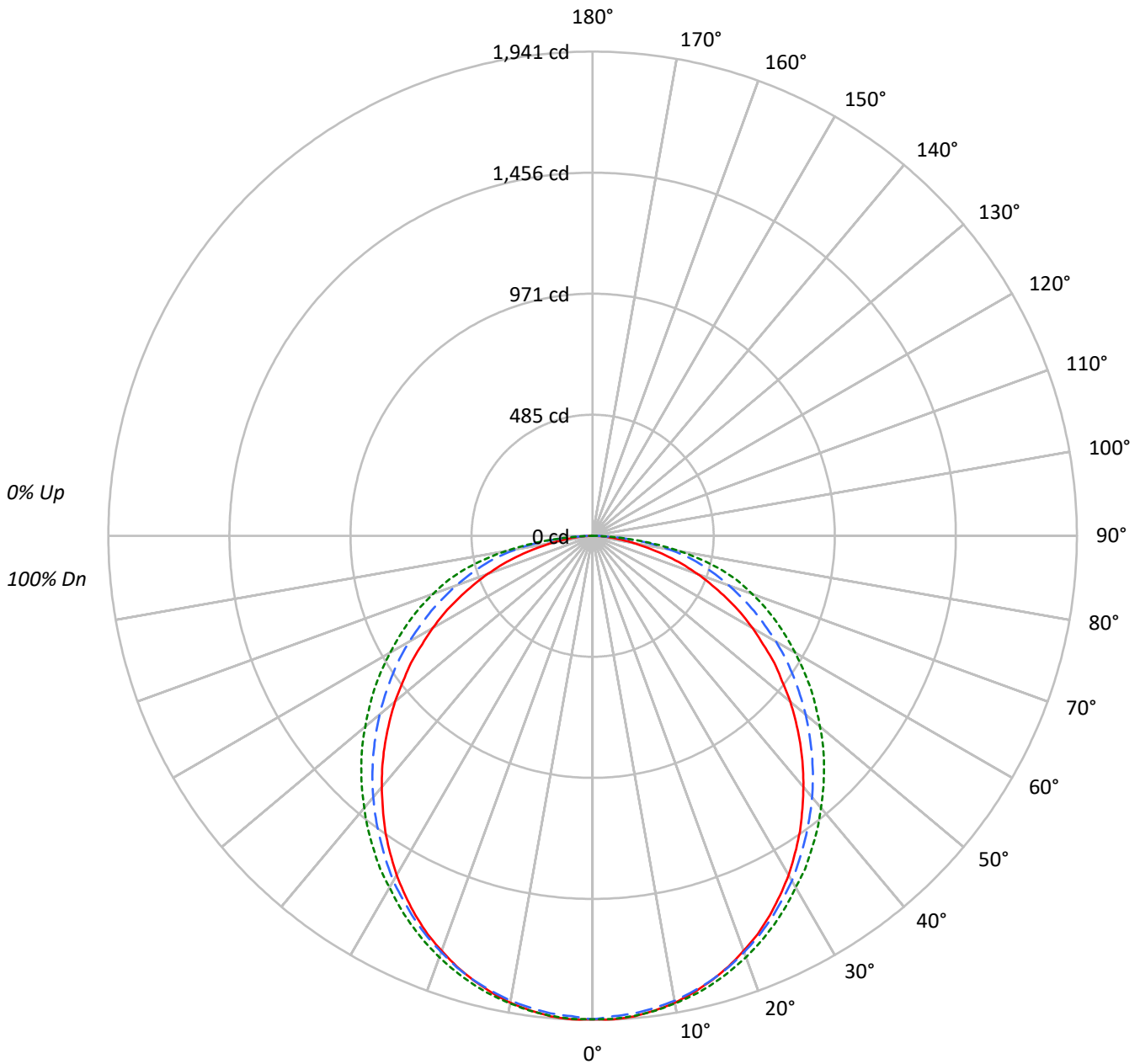
Lumens per Lamp: N/A
Luminaire Lumens: 5553.0 lumens
Efficiency: N/A
Efficacy: 129.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 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									
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°	2736	2736	2736
5°	2740	2723	2737
10°	2724	2712	2728
15°	2696	2695	2718
20°	2659	2667	2700
25°	2615	2637	2679
30°	2560	2604	2653
35°	2495	2559	2638
40°	2421	2521	2623
45°	2349	2481	2618
50°	2269	2447	2612
55°	2188	2417	2626
60°	2088	2394	2644
65°	1977	2385	2708
70°	1845	2398	2804
75°	1641	2467	2954
80°	1342	2520	2884
85°	946	2201	2246



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.2	3.3
10°-20°	521.9	9.4
20°-30°	782.3	14.1
30°-40°	931.8	16.8
40°-50°	960.7	17.3
50°-60°	876.7	15.8
60°-70°	701.0	12.6
70°-80°	457.9	8.2
80°-90°	137.5	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°	1487.4	26.8
0°-40°	2419.2	43.6
0°-60°	4256.6	76.7
0°-90°	5553.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5553.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1938	1938	1938	1938	1938	
5°	1934	1930	1922	1934	1932	183
15°	1845	1846	1844	1860	1860	520
25°	1679	1682	1694	1718	1720	773
35°	1448	1458	1485	1522	1531	905
45°	1177	1198	1243	1295	1312	907
55°	889	915	982	1047	1067	792
65°	592	632	714	784	811	587
75°	301	351	452	525	542	320
85°	58	105	136	139	139	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1938.3	1938.3	1938.3	1938.3	1938.3
2.5°	1941.0	1938.3	1928.1	1940.1	1938.3
5°	1933.8	1929.9	1921.8	1933.8	1932.0
7.5°	1919.0	1917.2	1909.0	1922.7	1920.8
10°	1900.8	1899.0	1892.6	1906.3	1903.6
12.5°	1875.4	1874.4	1869.9	1886.3	1884.5
15°	1845.1	1846.1	1844.2	1859.9	1859.9
17.5°	1810.6	1809.7	1813.3	1832.4	1830.6
20°	1770.3	1771.3	1775.8	1797.8	1797.8
22.5°	1728.5	1727.6	1737.6	1759.4	1761.2
25°	1679.2	1681.9	1693.7	1718.5	1720.3
27.5°	1626.2	1630.9	1645.5	1673.7	1676.4
30°	1570.7	1576.2	1598.0	1624.4	1628.0
32.5°	1509.6	1521.4	1541.4	1575.3	1584.4
35°	1448.4	1458.4	1485.0	1522.3	1531.4
37.5°	1380.9	1397.3	1427.5	1468.4	1480.4
40°	1314.3	1330.9	1368.2	1411.1	1423.8
42.5°	1246.8	1264.2	1307.0	1355.4	1369.1
45°	1176.7	1197.6	1243.1	1295.2	1311.6
47.5°	1104.6	1129.2	1178.5	1234.9	1253.3
50°	1033.5	1058.1	1114.7	1172.9	1189.5
52.5°	956.9	987.8	1048.1	1111.0	1127.4
55°	889.4	914.8	982.4	1047.1	1067.2
57.5°	810.0	844.6	916.7	982.4	1001.5
60°	739.8	771.6	848.2	914.8	936.7
62.5°	668.6	701.4	778.0	853.7	873.9
65°	592.0	632.0	714.1	784.4	810.9
67.5°	519.0	560.9	645.0	719.6	747.0
70°	447.0	489.7	581.1	657.7	679.5
72.5°	375.8	420.6	515.4	590.2	615.7
75°	301.0	351.2	452.4	525.4	541.8
77.5°	230.8	286.4	388.5	437.9	449.7
80°	165.1	226.2	310.1	345.8	354.9
82.5°	108.5	167.8	231.7	250.8	248.0
85°	58.4	104.8	135.9	138.7	138.7
87.5°	22.7	42.0	42.9	32.8	30.9
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)