

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: P880838

Luminaire Tested: **24CZ2-35VHE-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: P880838
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: 24CZ2-35VHE-S-B2750-W2D-3000K
Description: 2X4 3500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

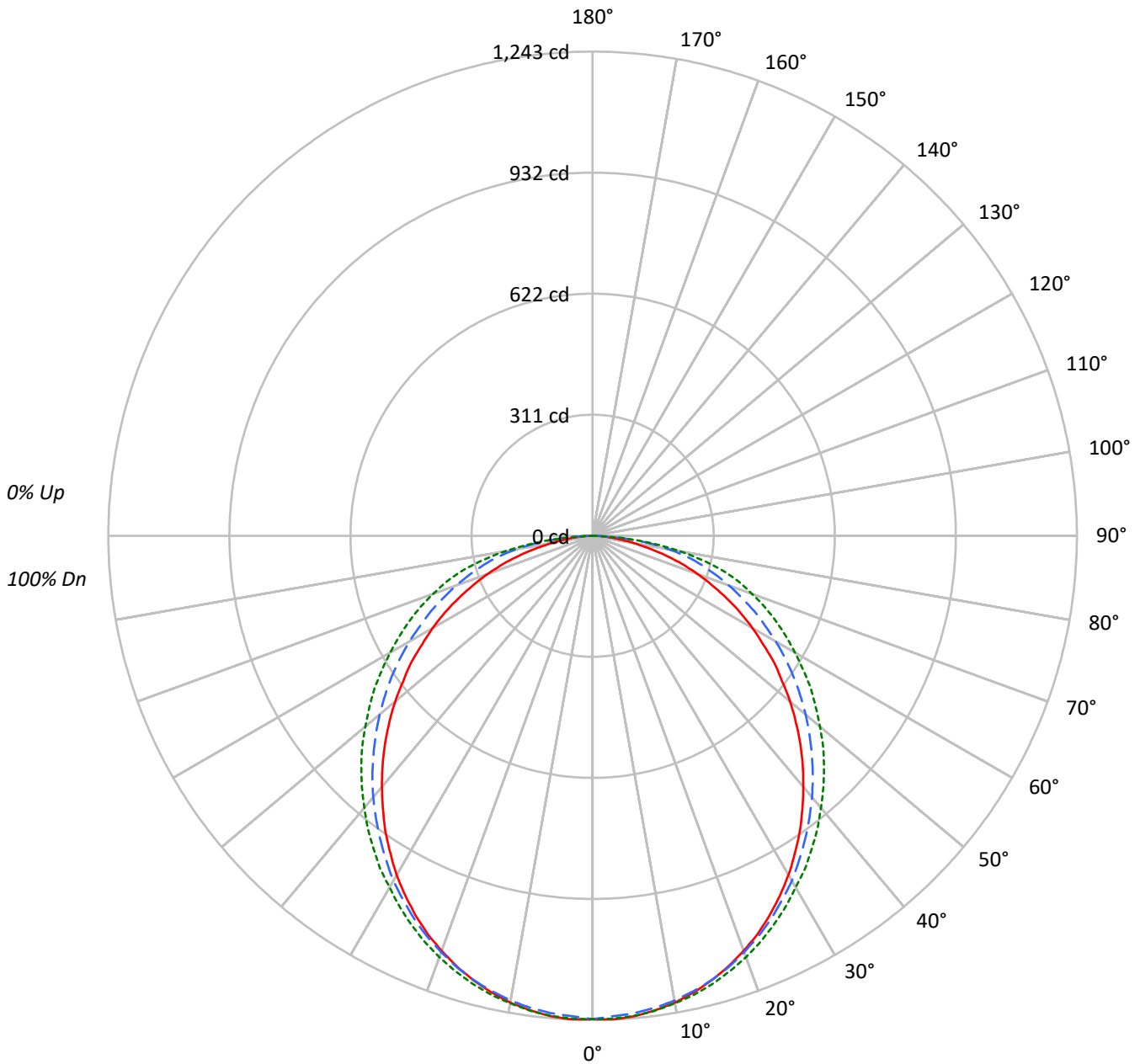
Lumens per Lamp: N/A
Luminaire Lumens: 3555.0 lumens
Efficiency: N/A
Efficacy: 131.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 27
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°	1751	1751	1751
5°	1754	1743	1752
10°	1744	1737	1746
15°	1726	1725	1740
20°	1702	1708	1729
25°	1674	1689	1715
30°	1639	1667	1699
35°	1598	1638	1689
40°	1550	1614	1679
45°	1504	1589	1676
50°	1453	1567	1672
55°	1401	1547	1681
60°	1337	1533	1693
65°	1266	1527	1734
70°	1181	1535	1795
75°	1051	1579	1891
80°	859	1613	1847
85°	606	1409	1438



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.3	3.3
10°-20°	334.1	9.4
20°-30°	500.8	14.1
30°-40°	596.5	16.8
40°-50°	615.1	17.3
50°-60°	561.3	15.8
60°-70°	448.8	12.6
70°-80°	293.1	8.2
80°-90°	88.0	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°	952.3	26.8
0°-40°	1548.8	43.6
0°-60°	2725.1	76.7
0°-90°	3555.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3555.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1241	1241	1241	1241	1241	
5°	1238	1236	1230	1238	1237	117
15°	1181	1182	1181	1191	1191	333
25°	1075	1077	1084	1100	1101	495
35°	927	934	951	975	980	579
45°	753	767	796	829	840	581
55°	569	586	629	670	683	507
65°	379	405	457	502	519	376
75°	193	225	290	336	347	205
85°	37	67	87	89	89	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1240.9	1240.9	1240.9	1240.9	1240.9
2.5°	1242.6	1240.9	1234.4	1242.1	1240.9
5°	1238.0	1235.5	1230.3	1238.0	1236.8
7.5°	1228.6	1227.4	1222.1	1230.9	1229.7
10°	1216.9	1215.7	1211.7	1220.4	1218.6
12.5°	1200.6	1200.0	1197.1	1207.6	1206.4
15°	1181.3	1181.8	1180.7	1190.7	1190.7
17.5°	1159.1	1158.5	1160.9	1173.1	1171.9
20°	1133.4	1133.9	1136.9	1151.0	1151.0
22.5°	1106.6	1106.0	1112.4	1126.4	1127.5
25°	1075.0	1076.7	1084.3	1100.2	1101.3
27.5°	1041.1	1044.1	1053.4	1071.5	1073.3
30°	1005.6	1009.1	1023.0	1039.9	1042.3
32.5°	966.4	974.0	986.8	1008.5	1014.3
35°	927.3	933.7	950.7	974.6	980.4
37.5°	884.0	894.5	913.9	940.1	947.8
40°	841.4	852.0	875.9	903.4	911.5
42.5°	798.2	809.4	836.7	867.7	876.5
45°	753.3	766.7	795.9	829.2	839.7
47.5°	707.2	722.9	754.5	790.6	802.4
50°	661.6	677.4	713.6	750.9	761.5
52.5°	612.6	632.4	671.0	711.3	721.8
55°	569.4	585.7	628.9	670.4	683.2
57.5°	518.6	540.7	586.8	628.9	641.1
60°	473.6	494.0	543.0	585.7	599.7
62.5°	428.0	449.0	498.1	546.5	559.5
65°	379.0	404.6	457.2	502.1	519.1
67.5°	332.3	359.1	412.9	460.7	478.3
70°	286.1	313.5	372.0	421.1	435.0
72.5°	240.6	269.2	329.9	377.8	394.1
75°	192.7	224.9	289.6	336.4	346.8
77.5°	147.7	183.4	248.7	280.3	287.9
80°	105.7	144.8	198.5	221.4	227.2
82.5°	69.4	107.4	148.3	160.5	158.8
85°	37.4	67.1	87.0	88.8	88.8
87.5°	14.6	26.9	27.5	21.0	19.8
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)