

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: P843142

Luminaire Tested: **24CZ2-55HE-UNV-B35**

Issue Date: 1/5/2024



Test Information

Test Method: LM-79-08
Report Number: P843142
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P272125)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 1/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-55HE-UNV-B35
Description: 2X4 5500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

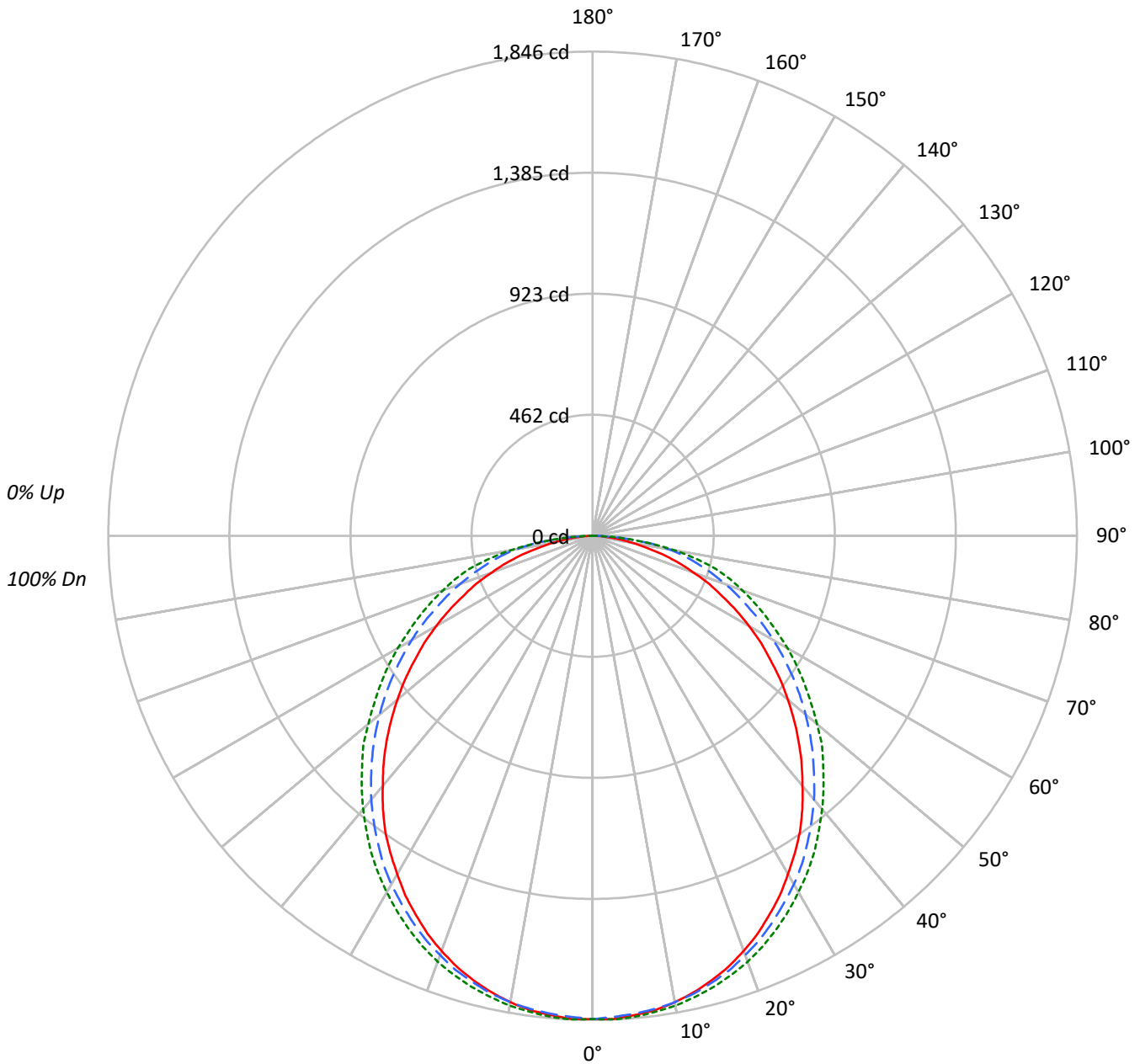
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5245.0 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

Input Watts (W): 42
Input Voltage (V): NR
Input Current (A_{in}): 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	106	101	97	93	97	93	90	93	90	88	89	87	85	83																			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69																			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58																			
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49																			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42																			
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37																			
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33																			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29																			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26																			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2601	2601	2601
5°	2599	2591	2608
10°	2588	2588	2607
15°	2563	2575	2602
20°	2530	2555	2595
25°	2483	2529	2579
30°	2427	2501	2557
35°	2374	2460	2537
40°	2293	2419	2508
45°	2218	2371	2481
50°	2133	2327	2451
55°	2037	2283	2427
60°	1942	2248	2422
65°	1819	2209	2437
70°	1684	2221	2502
75°	1508	2262	2644
80°	1218	2397	2586
85°	917	2104	2052



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.4	3.3
10°-20°	498.4	9.5
20°-30°	749.3	14.3
30°-40°	892.5	17.0
40°-50°	913.4	17.4
50°-60°	822.4	15.7
60°-70°	645.8	12.3
70°-80°	419.1	8.0
80°-90°	129.6	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°	1422.1	27.1
0°-40°	2314.6	44.1
0°-60°	4050.4	77.2
0°-90°	5245.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5245.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1843	1843	1843	1843	1843	
5°	1834	1838	1829	1839	1841	174
15°	1754	1759	1763	1778	1781	495
25°	1594	1608	1624	1651	1656	734
35°	1378	1394	1428	1463	1473	860
45°	1111	1138	1188	1233	1243	857
55°	828	865	928	976	986	742
65°	545	586	661	716	730	542
75°	277	330	415	472	485	293
85°	57	105	130	127	127	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1842.7	1842.7	1842.7	1842.7	1842.7
2.5°	1844.3	1844.3	1835.9	1844.3	1845.9
5°	1834.3	1837.7	1829.2	1839.3	1840.9
7.5°	1824.2	1824.2	1819.2	1829.2	1831.0
10°	1806.0	1807.6	1806.0	1817.6	1819.2
12.5°	1782.7	1785.9	1787.7	1799.3	1800.9
15°	1754.4	1759.4	1762.6	1777.7	1781.1
17.5°	1722.7	1727.7	1735.9	1752.6	1756.0
20°	1684.3	1690.9	1701.0	1722.7	1727.7
22.5°	1642.8	1649.4	1666.0	1685.9	1694.4
25°	1594.4	1607.6	1624.3	1651.0	1656.0
27.5°	1546.0	1557.7	1579.3	1607.6	1614.5
30°	1489.4	1507.7	1534.4	1562.7	1569.3
32.5°	1434.4	1452.7	1484.4	1514.5	1522.7
35°	1377.8	1394.5	1427.8	1462.7	1472.7
37.5°	1312.8	1334.4	1371.2	1406.1	1416.1
40°	1244.5	1271.2	1312.8	1349.5	1361.1
42.5°	1179.5	1207.8	1249.5	1289.5	1302.7
45°	1111.2	1137.9	1187.9	1232.9	1242.9
47.5°	1041.2	1071.3	1124.5	1169.4	1186.1
50°	971.3	1003.0	1059.6	1106.2	1116.3
52.5°	901.3	934.6	994.6	1044.6	1049.6
55°	828.0	864.7	928.0	976.3	986.4
57.5°	761.4	793.1	861.3	911.3	923.0
60°	688.1	723.0	796.3	843.1	857.9
62.5°	618.0	654.8	731.5	778.0	791.3
65°	544.8	586.5	661.4	716.4	729.6
67.5°	481.5	521.5	601.4	654.8	668.0
70°	408.1	453.2	538.2	593.2	606.4
72.5°	344.9	391.4	476.5	529.7	549.8
75°	276.6	329.8	414.9	471.5	484.8
77.5°	210.0	271.6	358.1	401.5	401.5
80°	149.9	215.0	294.9	314.9	318.2
82.5°	98.4	161.6	218.2	216.6	216.6
85°	56.6	105.0	129.9	126.7	126.7
87.5°	21.7	43.4	46.6	46.6	45.0
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)