

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: P843133

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

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P843133  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P274775)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-55HE-RDP-UNV-B35  
Description: 2X4 5500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND RDP LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

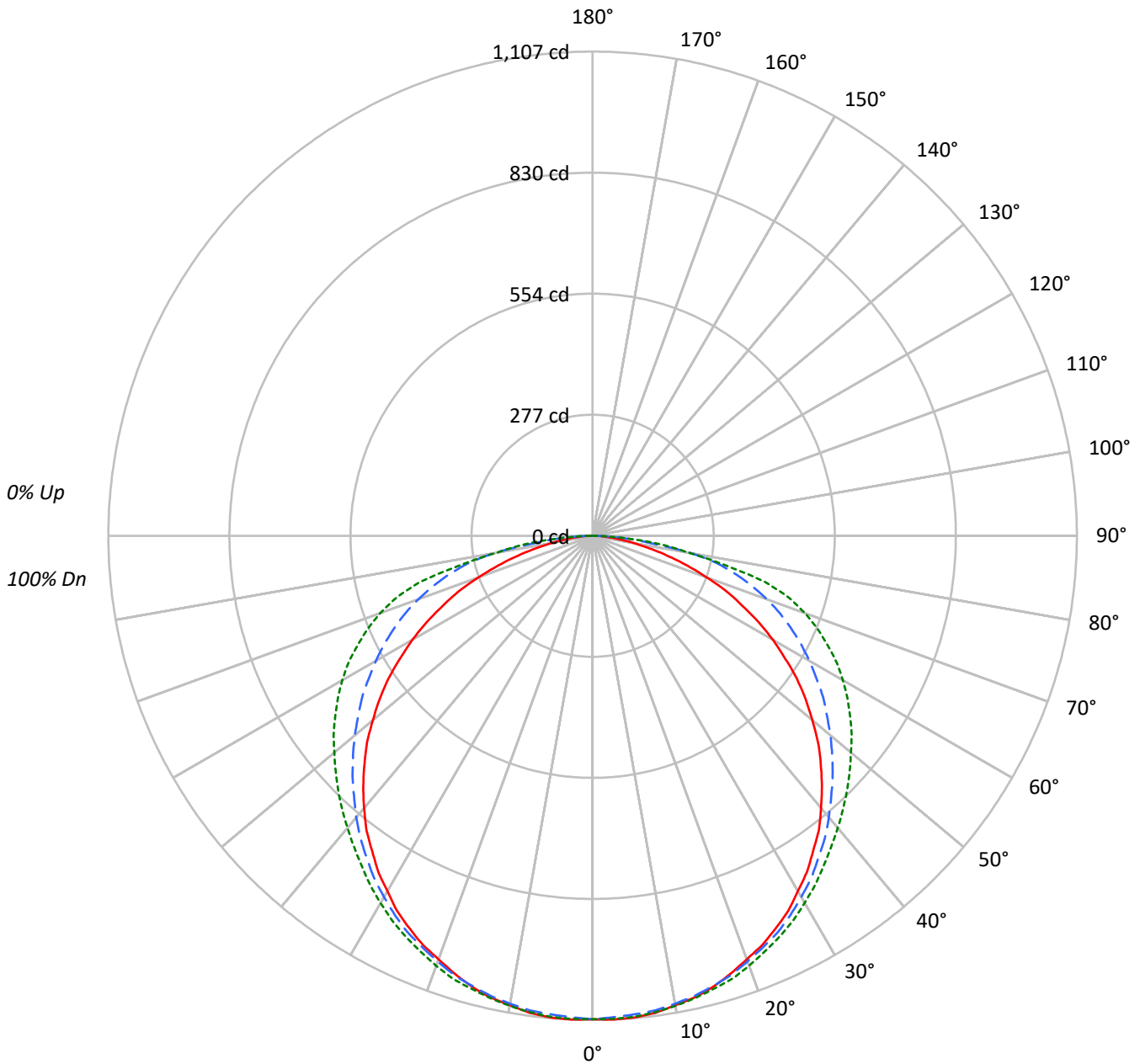
Lumens per Lamp: N/A  
Luminaire Lumens: 3515.0 lumens  
Efficiency: N/A  
Efficacy: 83.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 42  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84	82																			
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67																			
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56																			
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47																			
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40																			
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35																			
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27																			
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24																			
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1560	1560	1560
5°	1566	1556	1564
10°	1562	1557	1564
15°	1559	1556	1567
20°	1547	1555	1571
25°	1542	1558	1575
30°	1529	1554	1580
35°	1514	1550	1586
40°	1497	1548	1606
45°	1472	1549	1642
50°	1439	1558	1692
55°	1403	1583	1767
60°	1344	1614	1865
65°	1257	1671	1980
70°	1144	1748	2130
75°	970	1845	2225
80°	766	1856	1799
85°	565	1412	1579



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.9	3.0
10°-20°	301.8	8.6
20°-30°	461.5	13.1
30°-40°	564.1	16.0
40°-50°	601.3	17.1
50°-60°	574.9	16.4
60°-70°	487.0	13.9
70°-80°	327.3	9.3
80°-90°	92.3	2.6
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°	868.1	24.7
0°-40°	1432.2	40.7
0°-60°	2608.4	74.2
0°-90°	3515.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3515.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1105	1105	1105	1105	1105	
5°	1105	1104	1098	1104	1104	105
15°	1067	1067	1065	1074	1072	301
25°	990	994	1001	1010	1011	456
35°	879	886	900	917	921	550
45°	738	750	776	809	823	569
55°	570	591	643	694	718	508
65°	376	415	500	567	593	374
75°	178	242	338	396	408	190
85°	35	72	87	94	98	43
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1105.4	1105.4	1105.4	1105.4	1105.4
2.5°	1107.1	1107.1	1101.8	1105.4	1105.4
5°	1105.4	1103.7	1098.4	1103.7	1103.7
7.5°	1100.1	1098.4	1094.9	1100.1	1098.4
10°	1089.6	1089.6	1086.2	1091.5	1091.5
12.5°	1081.0	1079.3	1077.4	1084.4	1082.7
15°	1067.1	1067.1	1065.2	1074.1	1072.2
17.5°	1049.7	1051.3	1053.0	1060.0	1061.9
20°	1030.3	1033.9	1035.6	1046.1	1046.1
22.5°	1012.9	1014.8	1018.1	1028.6	1028.6
25°	990.4	993.7	1000.7	1009.5	1011.2
27.5°	967.7	969.4	978.2	990.4	992.1
30°	938.0	943.3	953.6	967.7	969.4
32.5°	911.8	917.0	929.2	943.3	946.7
35°	878.8	885.7	899.6	917.0	920.6
37.5°	849.1	854.4	871.8	890.9	896.2
40°	812.5	822.8	840.3	863.0	871.8
42.5°	776.0	786.3	807.3	836.9	847.4
45°	737.5	749.7	776.0	809.0	822.8
47.5°	699.2	713.1	742.7	781.0	796.8
50°	655.5	672.9	709.5	753.2	770.7
52.5°	613.7	634.7	674.8	723.6	746.3
55°	570.1	591.0	643.3	694.0	718.3
57.5°	521.4	549.1	606.7	664.3	690.4
60°	476.0	502.0	571.8	634.7	660.7
62.5°	427.2	462.1	536.9	603.1	629.4
65°	376.5	415.0	500.3	566.6	592.8
67.5°	331.3	373.2	463.8	530.0	556.3
70°	277.3	329.4	423.6	489.8	516.1
72.5°	226.6	284.2	381.8	446.3	470.7
75°	177.9	242.4	338.3	395.9	408.1
77.5°	132.4	200.6	292.8	317.2	308.6
80°	94.2	160.4	228.3	216.1	221.4
82.5°	61.0	122.1	141.3	160.4	165.7
85°	34.9	71.5	87.2	94.2	97.5
87.5°	15.8	26.1	34.9	34.9	33.2
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)