

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: P843151

Luminaire Tested: **24CZ2-60HE-S-UNV-B35**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P843151  
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: 24CZ2-60HE-S-UNV-B35  
Description: 2X4 6000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND SMOOTH LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

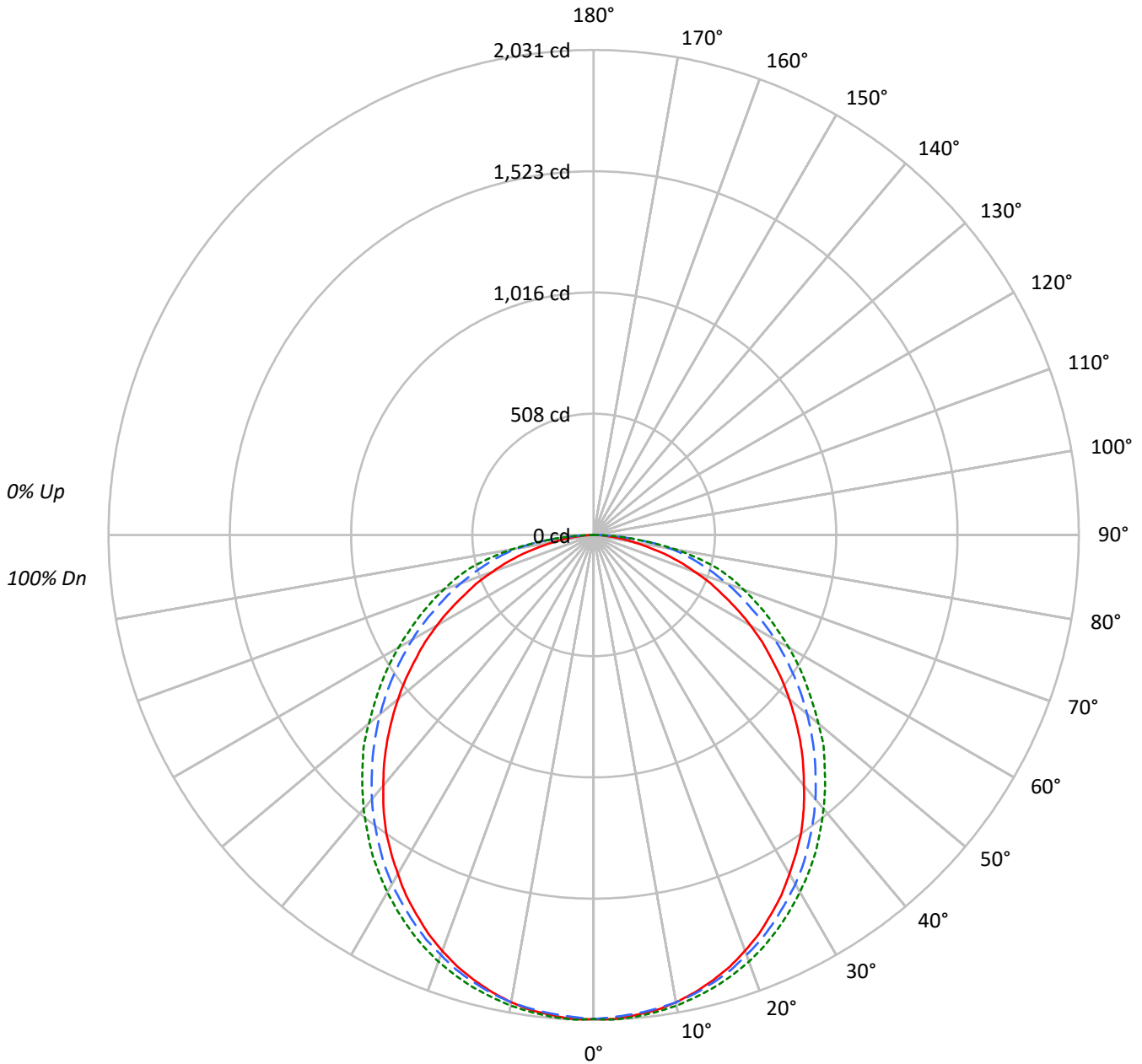
Lumens per Lamp: N/A  
Luminaire Lumens: 5772.0 lumens  
Efficiency: N/A  
Efficacy: 128.3 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 45  
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	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°	2862	2862	2862
5°	2860	2852	2870
10°	2848	2848	2869
15°	2821	2834	2864
20°	2784	2811	2856
25°	2732	2784	2838
30°	2671	2752	2814
35°	2612	2707	2792
40°	2523	2662	2760
45°	2441	2609	2730
50°	2347	2560	2697
55°	2242	2513	2671
60°	2137	2474	2665
65°	2002	2431	2682
70°	1853	2444	2754
75°	1660	2490	2909
80°	1341	2637	2845
85°	1009	2314	2257



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	192.0	3.3
10°-20°	548.5	9.5
20°-30°	824.5	14.3
30°-40°	982.2	17.0
40°-50°	1005.2	17.4
50°-60°	905.0	15.7
60°-70°	710.7	12.3
70°-80°	461.2	8.0
80°-90°	142.6	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°	1565.0	27.1
0°-40°	2547.2	44.1
0°-60°	4457.4	77.2
0°-90°	5772.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5772.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2028	2028	2028	2028	2028	
5°	2019	2022	2013	2024	2026	192
15°	1931	1936	1940	1956	1960	544
25°	1755	1769	1788	1817	1822	808
35°	1516	1535	1571	1610	1621	946
45°	1223	1252	1307	1357	1368	943
55°	911	952	1021	1074	1086	817
65°	600	646	728	788	803	597
75°	304	363	457	519	534	322
85°	62	116	143	139	139	75
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2027.8	2027.8	2027.8	2027.8	2027.8
2.5°	2029.6	2029.6	2020.3	2029.6	2031.4
5°	2018.6	2022.3	2013.0	2024.1	2025.8
7.5°	2007.5	2007.5	2002.0	2013.0	2015.0
10°	1987.4	1989.2	1987.4	2000.2	2002.0
12.5°	1961.8	1965.3	1967.3	1980.1	1981.9
15°	1930.6	1936.2	1939.7	1956.3	1960.0
17.5°	1895.7	1901.3	1910.3	1928.7	1932.4
20°	1853.5	1860.8	1871.9	1895.7	1901.3
22.5°	1807.8	1815.1	1833.4	1855.3	1864.6
25°	1754.6	1769.2	1787.5	1816.9	1822.4
27.5°	1701.3	1714.2	1738.0	1769.2	1776.7
30°	1639.1	1659.2	1688.5	1719.7	1727.0
32.5°	1578.5	1598.6	1633.5	1666.7	1675.7
35°	1516.2	1534.6	1571.2	1609.7	1620.7
37.5°	1444.7	1468.5	1508.9	1547.4	1558.4
40°	1369.6	1398.9	1444.7	1485.1	1497.9
42.5°	1298.0	1329.1	1375.1	1419.0	1433.6
45°	1222.9	1252.3	1307.3	1356.8	1367.8
47.5°	1145.8	1178.9	1237.5	1286.9	1305.3
50°	1068.9	1103.8	1166.1	1217.4	1228.4
52.5°	991.8	1028.5	1094.5	1149.5	1155.1
55°	911.2	951.6	1021.2	1074.4	1085.5
57.5°	837.9	872.8	947.9	1002.9	1015.7
60°	757.2	795.7	876.3	927.8	944.1
62.5°	680.1	720.6	804.9	856.2	870.8
65°	599.5	645.5	727.9	788.4	803.0
67.5°	529.9	573.9	661.8	720.6	735.1
70°	449.1	498.8	592.2	652.8	667.3
72.5°	379.5	430.7	524.4	582.9	605.0
75°	304.4	362.9	456.6	518.9	533.5
77.5°	231.1	298.9	394.1	441.8	441.8
80°	165.0	236.6	324.5	346.6	350.1
82.5°	108.2	177.8	240.1	238.3	238.3
85°	62.3	115.5	142.9	139.4	139.4
87.5°	23.9	47.7	51.2	51.2	49.5
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)