

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: P843153

Luminaire Tested: **24CZ2-60HE-S-UNV-B50**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P843153  
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-B50  
Description: 2X4 6000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND SMOOTH LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

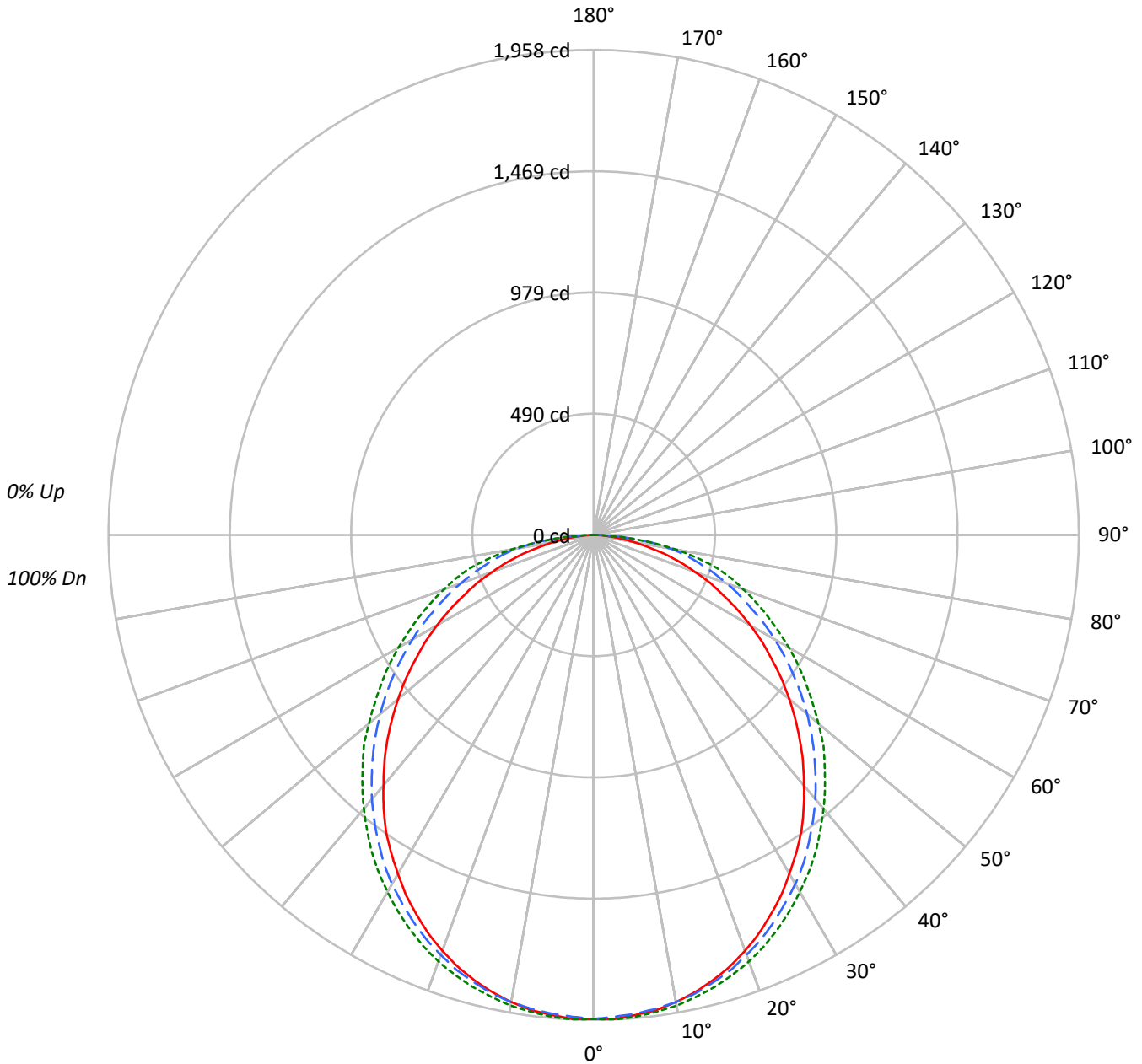
Lumens per Lamp: N/A  
Luminaire Lumens: 5563.0 lumens  
Efficiency: N/A  
Efficacy: 123.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 45  
Input Voltage (V): NR  
Input Current (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

TEST NUMBER: P843153

CATALOG NUMBER: 24CZ2-60HE-S-UNV-B50

### Luminous Intensity Polar Plot





TEST NUMBER: P843153

CATALOG NUMBER: 24CZ2-60HE-S-UNV-B50

**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°	2758	2758	2758
5°	2756	2749	2766
10°	2745	2745	2765
15°	2719	2732	2760
20°	2683	2710	2752
25°	2633	2683	2735
30°	2574	2652	2712
35°	2518	2609	2691
40°	2432	2565	2660
45°	2352	2515	2631
50°	2262	2468	2599
55°	2161	2422	2574
60°	2060	2384	2568
65°	1930	2343	2584
70°	1786	2355	2654
75°	1600	2400	2804
80°	1292	2541	2742
85°	972	2230	2175



TEST NUMBER: P843153

CATALOG NUMBER: 24CZ2-60HE-S-UNV-B50

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	185.0	3.3
10°-20°	528.7	9.5
20°-30°	794.7	14.3
30°-40°	946.6	17.0
40°-50°	968.8	17.4
50°-60°	872.2	15.7
60°-70°	685.0	12.3
70°-80°	444.6	8.0
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°	1508.4	27.1
0°-40°	2455.0	44.1
0°-60°	4296.0	77.2
0°-90°	5563.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5563.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1954	1954	1954	1954	1954	
5°	1946	1949	1940	1951	1952	185
15°	1861	1866	1870	1885	1889	525
25°	1691	1705	1723	1751	1756	779
35°	1461	1479	1514	1551	1562	912
45°	1179	1207	1260	1308	1318	909
55°	878	917	984	1036	1046	787
65°	578	622	702	760	774	575
75°	293	350	440	500	514	310
85°	60	111	138	134	134	73
90°	0	0	0	0	0	



TEST NUMBER: P843153

CATALOG NUMBER: 24CZ2-60HE-S-UNV-B50

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1954.4	1954.4	1954.4	1954.4	1954.4
2.5°	1956.1	1956.1	1947.2	1956.1	1957.8
5°	1945.5	1949.1	1940.1	1950.8	1952.5
7.5°	1934.8	1934.8	1929.5	1940.1	1942.1
10°	1915.4	1917.2	1915.4	1927.8	1929.5
12.5°	1890.8	1894.2	1896.1	1908.4	1910.1
15°	1860.7	1866.1	1869.5	1885.4	1889.0
17.5°	1827.1	1832.4	1841.1	1858.8	1862.4
20°	1786.4	1793.5	1804.1	1827.1	1832.4
22.5°	1742.4	1749.4	1767.1	1788.1	1797.1
25°	1691.1	1705.1	1722.8	1751.1	1756.4
27.5°	1639.7	1652.1	1675.1	1705.1	1712.3
30°	1579.7	1599.1	1627.4	1657.4	1664.4
32.5°	1521.4	1540.7	1574.4	1606.3	1615.0
35°	1461.3	1479.0	1514.3	1551.4	1562.0
37.5°	1392.4	1415.3	1454.3	1491.4	1502.0
40°	1320.0	1348.3	1392.4	1431.3	1443.7
42.5°	1251.0	1281.0	1325.3	1367.7	1381.7
45°	1178.6	1206.9	1259.9	1307.6	1318.3
47.5°	1104.3	1136.2	1192.7	1240.3	1258.0
50°	1030.2	1063.9	1123.9	1173.3	1183.9
52.5°	955.9	991.3	1054.9	1107.9	1113.2
55°	878.2	917.2	984.2	1035.5	1046.2
57.5°	807.5	841.2	913.5	966.6	978.9
60°	729.8	766.9	844.6	894.2	909.9
62.5°	655.5	694.5	775.8	825.2	839.2
65°	577.8	622.1	701.5	759.8	773.9
67.5°	510.7	553.1	637.8	694.5	708.5
70°	432.8	480.7	570.8	629.1	643.2
72.5°	365.8	415.2	505.4	561.8	583.1
75°	293.4	349.8	440.1	500.1	514.2
77.5°	222.7	288.1	379.8	425.8	425.8
80°	159.0	228.0	312.7	334.0	337.4
82.5°	104.3	171.4	231.4	229.7	229.7
85°	60.0	111.3	137.7	134.3	134.3
87.5°	23.0	46.0	49.4	49.4	47.7
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)