

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: P732383

Luminaire Tested: **24CZ2-60HE-SQR-B2750-W2D-3500K**

Issue Date: 1/5/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P732383  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P388488)  
Test Lab: INNOVATION CENTER (G2)  
Issue Date: 1/5/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-60HE-SQR-B2750-W2D-3500K  
Description: 2X4 6000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND SQR LENS  
  
Light Source: -  
Ballast/Driver: -

**Summary**

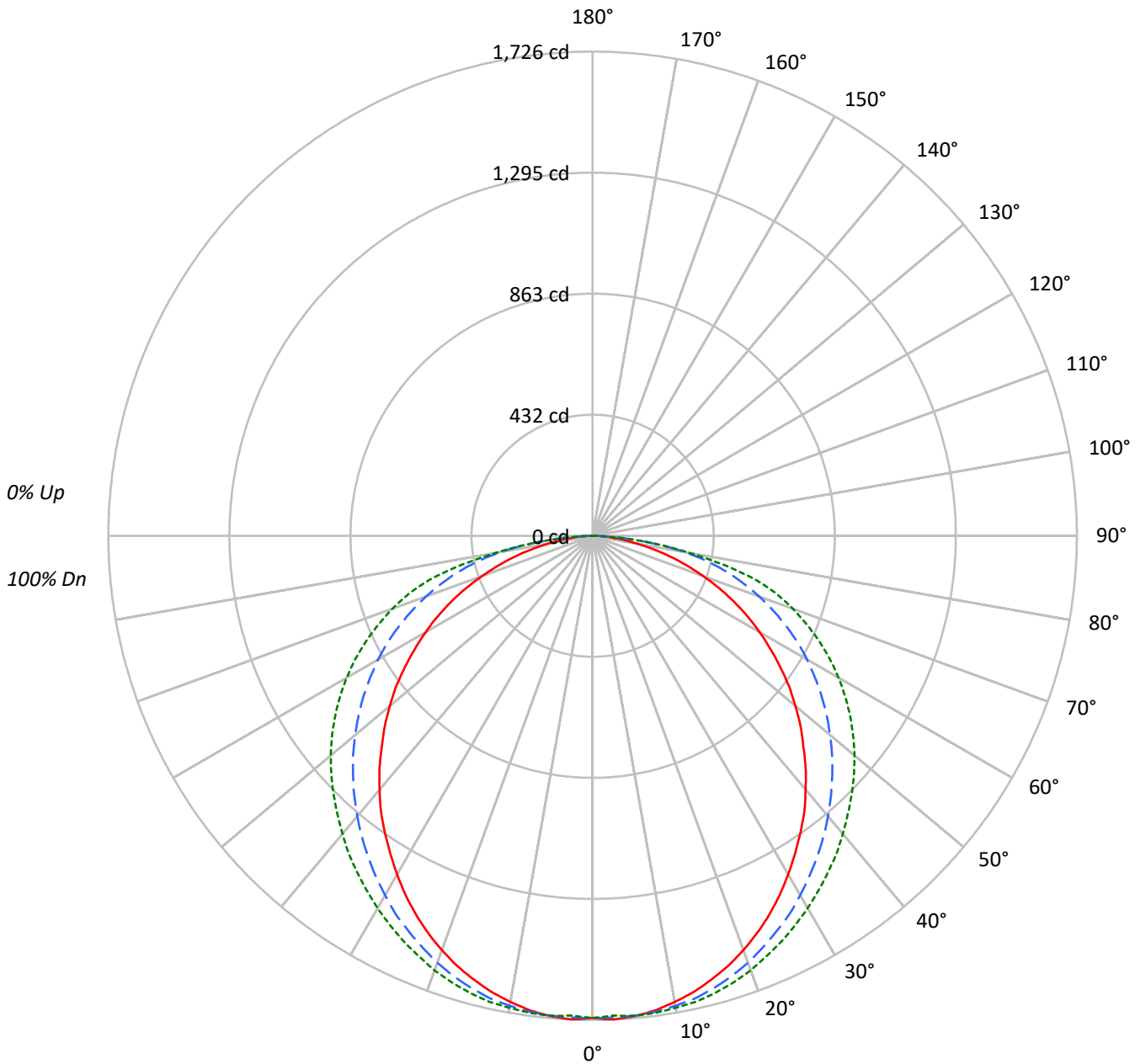
Lumens per Lamp: N/A  
Luminaire Lumens: 5378.0 lumens  
Efficiency: N/A  
Efficacy: 119.5 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.33 / 1.41  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P732383

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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	89	86	84	82																			
2	98	89	81	75	95	87	80	74	83	78	73	80	75	71	77	73	69	67																			
3	89	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56																			
4	81	68	59	52	78	67	58	52	64	57	51	62	55	50	60	54	49	47																			
5	74	61	51	44	72	60	51	44	57	50	44	55	49	43	54	48	43	41																			
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35																			
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31																			
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	30	28																			
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25																			
10	52	38	30	25	50	37	30	24	36	29	24	36	29	24	35	29	24	22																			

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

	0°	45°	90°
0°	2426	2426	2426
5°	2435	2433	2433
10°	2418	2438	2448
15°	2392	2439	2465
20°	2361	2433	2475
25°	2320	2420	2483
30°	2272	2411	2498
35°	2224	2405	2521
40°	2176	2405	2556
45°	2119	2410	2605
50°	2071	2425	2675
55°	2010	2452	2757
60°	1940	2491	2857
65°	1856	2538	2978
70°	1722	2602	3130
75°	1560	2692	3273
80°	1313	2699	2814
85°	1006	2040	2040



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	163.2	3.0
10°-20°	469.5	8.7
20°-30°	713.1	13.3
30°-40°	867.4	16.1
40°-50°	923.5	17.2
50°-60°	879.6	16.4
60°-70°	735.6	13.7
70°-80°	490.4	9.1
80°-90°	135.7	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°	1345.8	25.0
0°-40°	2213.2	41.2
0°-60°	4016.3	74.7
0°-90°	5378.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5378.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1719	1719	1719	1719	1719	
5°	1719	1708	1717	1717	1717	163
15°	1637	1641	1669	1682	1687	462
25°	1490	1509	1554	1580	1595	686
35°	1291	1328	1396	1442	1463	808
45°	1062	1119	1208	1275	1305	821
55°	817	888	996	1083	1120	730
65°	556	638	760	854	892	549
75°	286	376	494	577	600	303
85°	62	115	126	124	126	75
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1719.0	1719.0	1719.0	1719.0	1719.0
2.5°	1726.1	1713.7	1719.0	1719.0	1712.1
5°	1719.0	1708.4	1717.4	1717.4	1717.4
7.5°	1706.7	1697.7	1712.1	1715.5	1715.5
10°	1687.1	1683.7	1701.4	1706.7	1708.4
12.5°	1665.9	1664.0	1689.0	1695.9	1701.4
15°	1637.3	1641.0	1669.4	1681.8	1687.1
17.5°	1607.3	1614.2	1646.3	1664.0	1669.4
20°	1571.7	1582.3	1619.7	1637.3	1648.1
22.5°	1532.7	1548.6	1587.7	1608.9	1621.3
25°	1490.0	1509.4	1554.0	1580.5	1594.8
27.5°	1443.9	1468.8	1520.3	1550.3	1564.6
30°	1394.0	1422.4	1479.4	1515.0	1532.7
32.5°	1342.5	1376.2	1438.6	1477.6	1498.8
35°	1291.1	1328.5	1395.9	1442.0	1463.3
37.5°	1239.6	1276.8	1351.5	1401.2	1427.9
40°	1181.0	1225.3	1305.4	1360.3	1387.1
42.5°	1124.2	1172.0	1257.4	1317.6	1346.2
45°	1061.9	1118.9	1207.5	1275.2	1305.4
47.5°	1005.1	1061.9	1157.9	1229.0	1262.7
50°	943.0	1003.3	1104.6	1182.8	1218.4
52.5°	882.6	944.9	1051.3	1134.8	1170.4
55°	817.0	887.9	996.4	1083.4	1120.5
57.5°	751.2	827.6	939.3	1030.0	1067.4
60°	687.3	765.3	882.6	973.3	1012.3
62.5°	623.4	701.4	823.9	916.3	953.7
65°	555.8	637.5	760.0	854.2	891.6
67.5°	488.4	573.5	696.1	790.2	825.8
70°	417.3	508.0	630.5	722.9	758.4
72.5°	351.7	442.2	562.9	653.6	687.3
75°	286.0	376.4	493.7	577.2	600.3
77.5°	222.0	312.5	417.3	472.4	477.7
80°	161.6	247.0	332.1	348.0	346.2
82.5°	108.2	184.6	229.2	230.8	236.1
85°	62.1	115.4	126.0	124.4	126.0
87.5°	24.9	40.9	35.5	26.5	26.5
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)