

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: P880968

Luminaire Tested: **24CZ2-60VHE-SQR-B2750-W2D-3000K**

Issue Date: 10/2/2024

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



**Test Information**

Test Method: LM-79-08  
Report Number: P880968  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P474669)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 10/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-60VHE-SQR-B2750-W2D-3000K  
Description: 2X4 6000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND SQR LENS  
  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

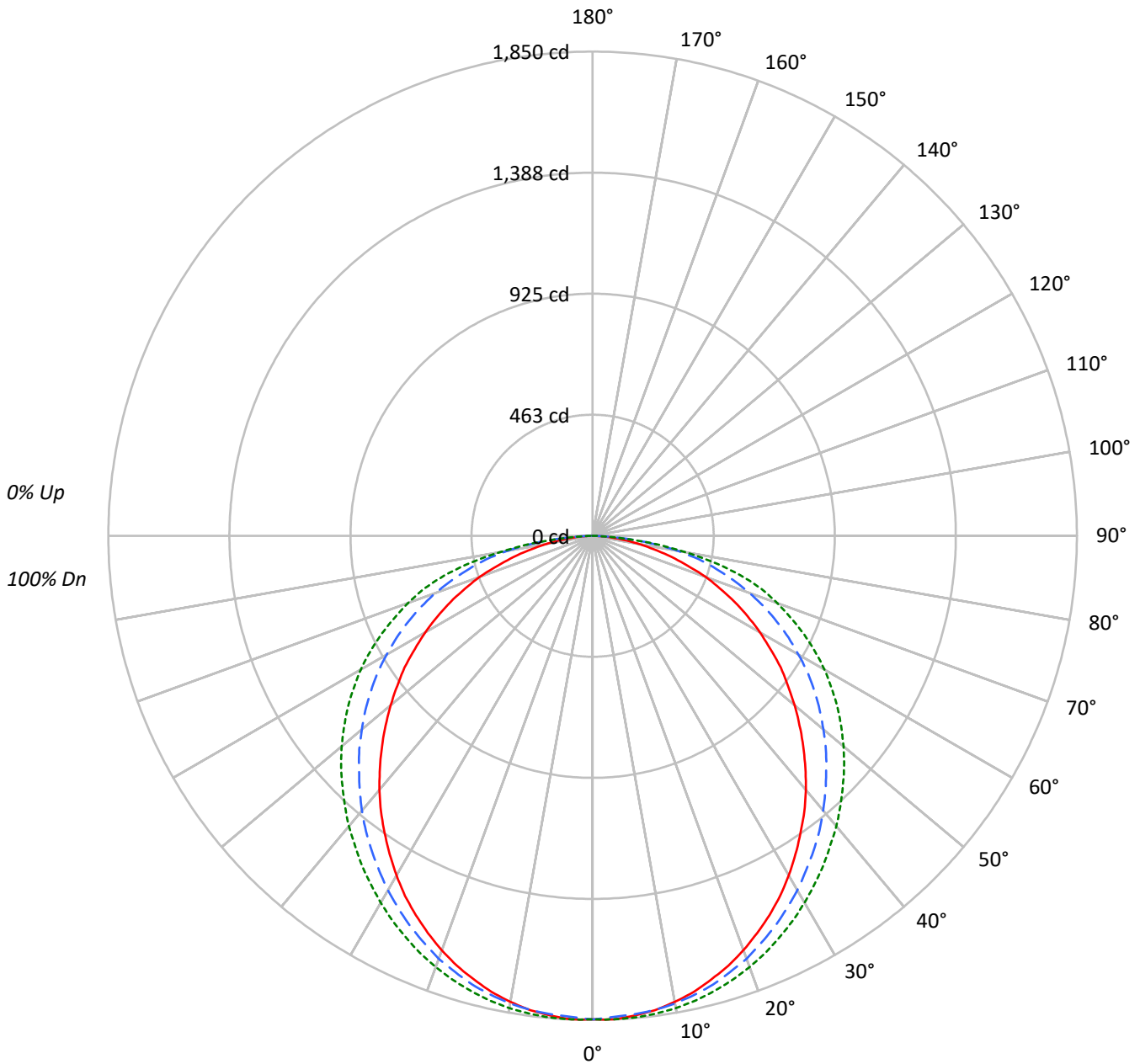
Lumens per Lamp: N/A  
Luminaire Lumens: 5626.0 lumens  
Efficiency: N/A  
Efficacy: 119.7 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.39  
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 47  
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

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				20	
RC	80				70				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				100
1	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	87	84	82				82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68				68
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56				56
4	81	69	59	53	79	67	59	52	65	57	51	62	56	51	60	55	50	48				48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41				41
6	69	55	46	39	67	54	45	39	52	44	39	50	43	38	49	43	38	36				36
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	31				31
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28				28
9	55	42	33	28	54	41	33	27	40	32	27	39	32	27	38	31	27	25				25
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23				23

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

	0°	45°	90°
0°	2608	2608	2608
5°	2608	2600	2618
10°	2592	2601	2626
15°	2564	2595	2631
20°	2531	2582	2634
25°	2490	2564	2634
30°	2442	2549	2638
35°	2387	2534	2648
40°	2335	2525	2669
45°	2271	2519	2698
50°	2210	2526	2747
55°	2159	2544	2809
60°	2085	2563	2887
65°	2002	2594	2974
70°	1899	2629	3094
75°	1701	2666	3195
80°	1432	2674	2899
85°	1062	2023	1906



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.1	3.1
10°-20°	501.9	8.9
20°-30°	759.8	13.5
30°-40°	919.1	16.3
40°-50°	970.1	17.2
50°-60°	914.9	16.3
60°-70°	754.3	13.4
70°-80°	494.8	8.8
80°-90°	136.1	2.4
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°	1436.8	25.5
0°-40°	2355.9	41.9
0°-60°	4240.9	75.4
0°-90°	5626.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5626.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1848	1848	1848	1848	1848	
5°	1841	1841	1835	1848	1848	175
15°	1754	1764	1776	1797	1800	495
25°	1599	1619	1647	1681	1692	736
35°	1385	1421	1470	1521	1537	867
45°	1138	1189	1262	1329	1352	878
55°	877	939	1034	1111	1142	781
65°	600	672	777	859	891	592
75°	312	392	489	566	586	330
85°	66	113	125	121	118	81
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1848.0	1848.0	1848.0	1848.0	1848.0
2.5°	1849.7	1848.0	1839.9	1850.6	1849.7
5°	1840.7	1840.7	1835.4	1848.0	1848.0
7.5°	1828.1	1829.1	1827.2	1841.6	1841.6
10°	1808.5	1812.0	1814.6	1830.9	1832.6
12.5°	1785.0	1791.4	1796.6	1816.5	1818.4
15°	1754.5	1764.4	1776.0	1796.6	1800.4
17.5°	1723.0	1734.8	1747.3	1774.3	1778.8
20°	1685.3	1698.8	1719.4	1746.4	1753.5
22.5°	1643.1	1661.9	1683.4	1715.8	1724.8
25°	1599.1	1618.7	1646.7	1680.8	1691.5
27.5°	1551.4	1574.7	1606.2	1645.7	1657.4
30°	1498.4	1525.2	1564.0	1606.2	1618.7
32.5°	1442.5	1474.0	1517.1	1564.0	1578.2
35°	1385.2	1421.0	1470.5	1520.9	1537.0
37.5°	1328.4	1364.4	1422.8	1475.9	1491.1
40°	1267.2	1306.8	1370.7	1427.3	1448.9
42.5°	1202.6	1249.4	1316.7	1379.7	1400.3
45°	1137.9	1189.1	1262.0	1329.3	1351.8
47.5°	1072.3	1128.9	1208.9	1277.2	1303.2
50°	1006.7	1066.8	1150.5	1224.1	1251.1
52.5°	940.1	1003.1	1093.8	1172.0	1196.4
55°	877.3	939.2	1033.7	1110.9	1141.5
57.5°	804.4	874.5	974.2	1052.6	1082.2
60°	738.8	807.2	907.9	990.6	1022.8
62.5°	667.7	737.9	844.0	926.6	958.1
65°	599.5	671.5	776.7	859.3	890.6
67.5°	525.8	601.4	709.2	789.2	819.8
70°	460.2	531.3	637.2	719.1	749.7
72.5°	380.2	461.2	562.6	643.6	676.7
75°	311.9	391.8	488.9	566.3	586.0
77.5°	240.0	320.0	416.2	466.4	479.9
80°	176.2	251.6	329.0	356.0	356.7
82.5°	118.7	185.2	229.3	242.8	240.9
85°	65.6	113.2	124.9	121.3	117.7
87.5°	27.0	37.7	30.6	21.6	17.1
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)