

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: P880950

Luminaire Tested: **24CZ2-60VHE-B2750-W2D-4000K**

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: P880950
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P473819)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-60VHE-B2750-W2D-4000K
Description: 2X4 6000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

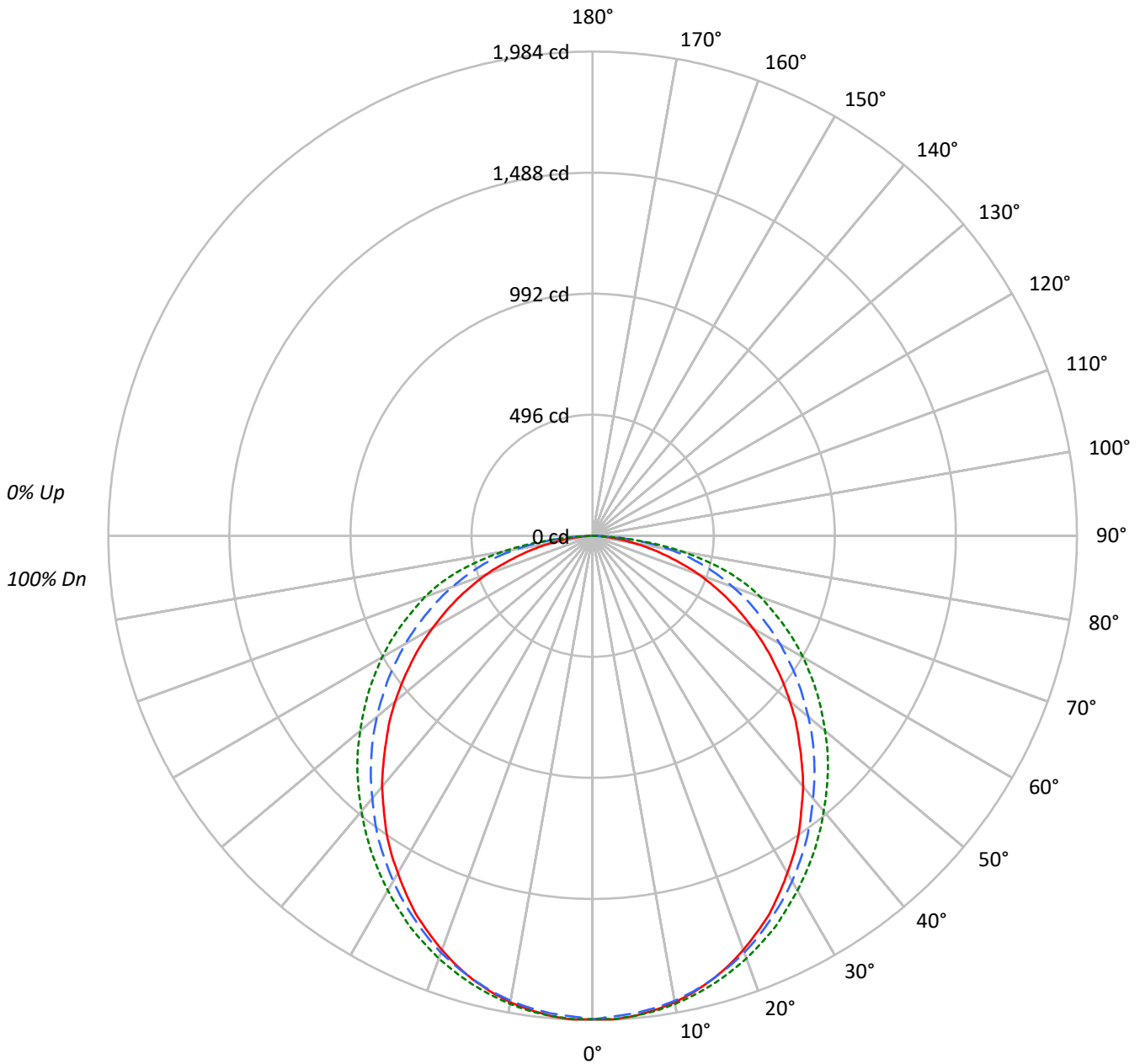
Lumens per Lamp: N/A
Luminaire Lumens: 5733.0 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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									
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	105	101	97	93	97	93	90	93	90	87	89	87	85	83																			
2	98	89	82	76	95	88	81	75	84	78	74	81	76	72	78	74	70	68																			
3	89	78	70	63	87	77	69	63	74	67	61	71	65	60	68	63	59	57																			
4	82	69	60	53	79	68	59	53	65	58	52	63	57	51	61	55	51	48																			
5	75	62	53	46	73	61	52	46	58	51	45	56	50	44	55	49	44	42																			
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	37																			
7	64	50	41	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32																			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29																			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26																			
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2796	2796	2796
5°	2797	2783	2797
10°	2782	2773	2791
15°	2754	2752	2780
20°	2713	2729	2768
25°	2665	2696	2755
30°	2601	2664	2735
35°	2542	2630	2724
40°	2473	2587	2713
45°	2388	2560	2721
50°	2316	2532	2729
55°	2231	2514	2760
60°	2139	2502	2811
65°	2038	2493	2883
70°	1918	2518	3015
75°	1687	2571	3137
80°	1409	2590	3026
85°	1006	2218	2249



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.3	3.3
10°-20°	533.4	9.3
20°-30°	800.3	14.0
30°-40°	955.4	16.7
40°-50°	989.7	17.3
50°-60°	911.1	15.9
60°-70°	734.9	12.8
70°-80°	480.2	8.4
80°-90°	140.8	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°	1521.0	26.5
0°-40°	2476.4	43.2
0°-60°	4377.1	76.3
0°-90°	5733.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5733.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1981	1981	1981	1981	1981	
5°	1975	1973	1964	1976	1975	187
15°	1885	1885	1884	1902	1902	531
25°	1712	1715	1731	1762	1769	787
35°	1475	1488	1526	1568	1581	922
45°	1197	1226	1283	1340	1363	925
55°	907	946	1022	1097	1122	811
65°	610	652	747	832	863	604
75°	309	368	471	553	575	330
85°	62	107	137	145	139	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1981.1	1981.1	1981.1	1981.1	1981.1
2.5°	1983.8	1981.1	1970.9	1982.9	1982.0
5°	1974.6	1972.7	1964.4	1975.5	1974.6
7.5°	1959.8	1958.9	1952.4	1964.4	1964.4
10°	1941.3	1939.5	1934.8	1948.7	1947.8
12.5°	1915.4	1914.5	1911.7	1928.4	1927.4
15°	1884.7	1884.7	1883.8	1902.5	1902.5
17.5°	1847.7	1848.7	1852.4	1873.6	1874.5
20°	1806.1	1809.8	1817.2	1841.3	1843.1
22.5°	1758.8	1766.2	1776.3	1803.3	1806.1
25°	1711.6	1715.3	1731.0	1762.5	1768.9
27.5°	1654.1	1663.5	1683.9	1716.2	1722.7
30°	1595.8	1608.8	1634.7	1668.2	1678.3
32.5°	1538.3	1549.6	1580.1	1618.0	1630.1
35°	1475.4	1488.4	1526.3	1568.1	1581.0
37.5°	1405.9	1426.3	1466.2	1514.3	1528.2
40°	1342.1	1360.6	1404.1	1457.9	1472.7
42.5°	1268.9	1292.0	1344.9	1399.4	1417.9
45°	1196.6	1226.3	1282.7	1340.3	1363.4
47.5°	1129.1	1153.1	1219.9	1284.6	1304.9
50°	1054.9	1082.6	1153.1	1221.7	1243.0
52.5°	981.8	1015.1	1086.3	1158.6	1181.8
55°	906.8	945.6	1021.6	1096.7	1121.7
57.5°	834.4	873.5	952.1	1031.8	1057.7
60°	757.7	799.3	886.4	963.2	995.7
62.5°	683.5	725.1	816.9	900.3	930.8
65°	610.3	652.1	746.6	831.7	863.3
67.5°	534.5	579.8	680.8	763.2	793.8
70°	464.9	508.4	610.3	698.3	730.7
72.5°	385.2	437.2	540.9	627.9	658.6
75°	309.4	367.7	471.4	553.0	575.2
77.5°	238.9	297.4	400.9	462.2	476.0
80°	173.3	232.5	318.7	361.2	372.3
82.5°	112.1	173.3	230.6	259.3	263.0
85°	62.1	107.4	137.0	145.4	138.9
87.5°	22.2	40.7	39.8	32.4	25.9
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)