

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: P880948

Luminaire Tested: **24CZ2-60VHE-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: P880948
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-3000K
Description: 2X4 6000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND RIBBED LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

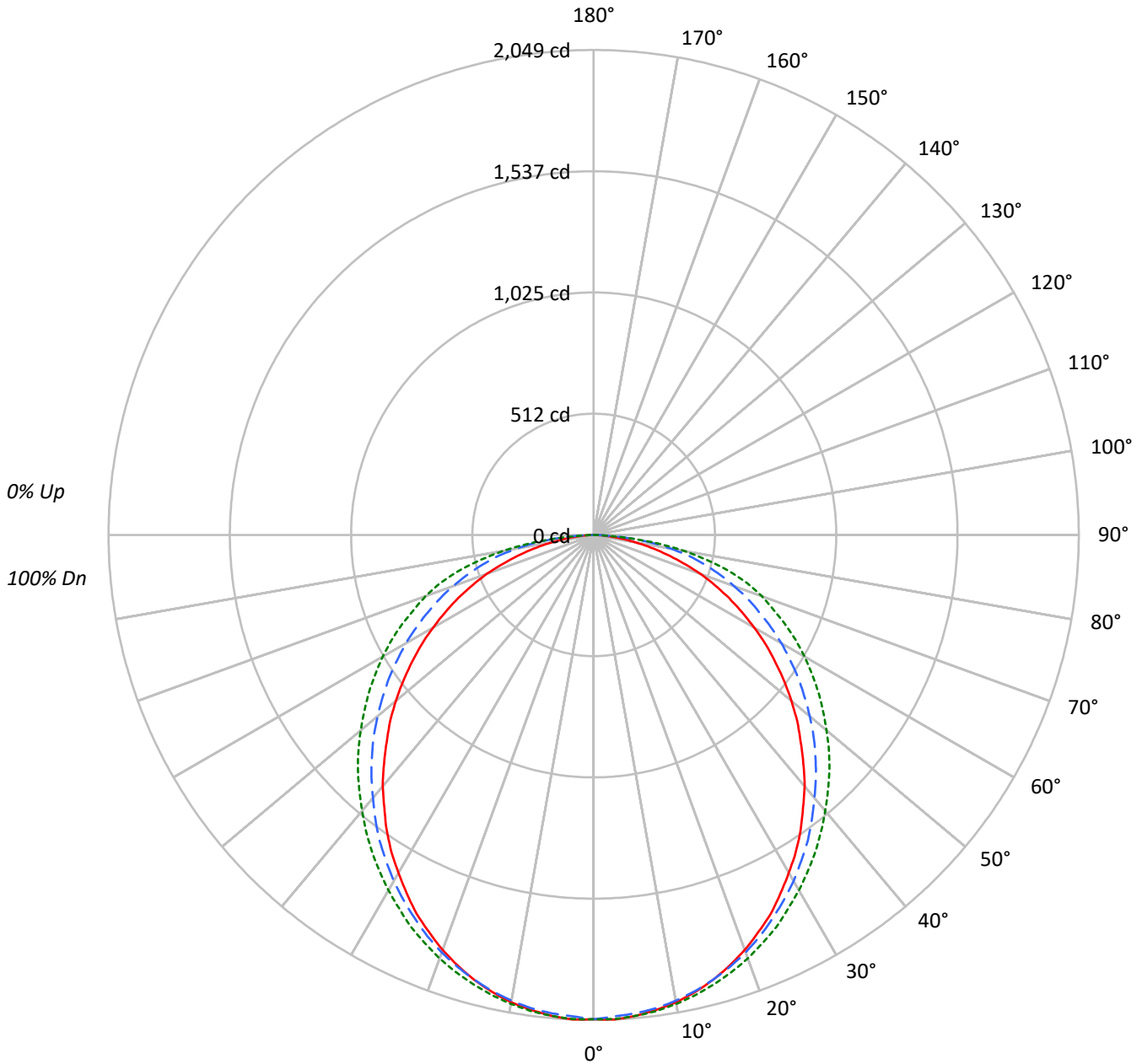
Lumens per Lamp: N/A
Luminaire Lumens: 5922.0 lumens
Efficiency: N/A
Efficacy: 126.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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°	2888	2888	2888
5°	2890	2875	2890
10°	2874	2864	2883
15°	2845	2843	2871
20°	2802	2819	2859
25°	2753	2785	2846
30°	2686	2752	2825
35°	2626	2716	2814
40°	2554	2672	2803
45°	2467	2645	2811
50°	2393	2615	2819
55°	2305	2597	2851
60°	2209	2584	2903
65°	2105	2575	2978
70°	1982	2601	3115
75°	1743	2656	3240
80°	1455	2676	3126
85°	1040	2293	2324



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.4	3.3
10°-20°	551.0	9.3
20°-30°	826.6	14.0
30°-40°	986.9	16.7
40°-50°	1022.3	17.3
50°-60°	941.1	15.9
60°-70°	759.2	12.8
70°-80°	496.0	8.4
80°-90°	145.4	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°	1571.1	26.5
0°-40°	2558.0	43.2
0°-60°	4521.4	76.3
0°-90°	5922.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5922.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2046	2046	2046	2046	2046	
5°	2040	2038	2029	2041	2040	194
15°	1947	1947	1946	1965	1965	549
25°	1768	1772	1788	1821	1827	813
35°	1524	1538	1577	1620	1633	952
45°	1236	1267	1325	1384	1408	955
55°	937	977	1055	1133	1159	838
65°	630	674	771	859	892	623
75°	320	380	487	571	594	341
85°	64	111	142	150	144	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2046.4	2046.4	2046.4	2046.4	2046.4
2.5°	2049.2	2046.4	2035.9	2048.3	2047.3
5°	2039.7	2037.8	2029.2	2040.6	2039.7
7.5°	2024.4	2023.5	2016.8	2029.2	2029.2
10°	2005.3	2003.4	1998.6	2012.9	2012.0
12.5°	1978.6	1977.6	1974.7	1991.9	1991.0
15°	1946.8	1946.8	1945.9	1965.2	1965.2
17.5°	1908.6	1909.6	1913.4	1935.4	1936.3
20°	1865.7	1869.5	1877.1	1902.0	1903.9
22.5°	1816.8	1824.4	1834.9	1862.8	1865.7
25°	1768.0	1771.9	1788.1	1820.6	1827.3
27.5°	1708.6	1718.4	1739.4	1772.8	1779.5
30°	1648.4	1661.8	1688.6	1723.1	1733.7
32.5°	1589.0	1600.7	1632.2	1671.4	1683.8
35°	1524.1	1537.5	1576.6	1619.8	1633.2
37.5°	1452.3	1473.3	1514.5	1564.2	1578.5
40°	1386.3	1405.5	1450.3	1505.9	1521.2
42.5°	1310.7	1334.6	1389.2	1445.6	1464.7
45°	1236.0	1266.8	1325.0	1384.4	1408.3
47.5°	1166.3	1191.1	1260.1	1326.9	1347.9
50°	1089.7	1118.3	1191.1	1262.0	1284.0
52.5°	1014.2	1048.6	1122.1	1196.8	1220.7
55°	936.6	976.8	1055.3	1132.8	1158.6
57.5°	862.0	902.3	983.5	1065.8	1092.5
60°	782.7	825.7	915.6	994.9	1028.5
62.5°	706.1	749.1	843.8	930.0	961.5
65°	630.4	673.6	771.2	859.1	891.8
67.5°	552.1	598.9	703.2	788.4	819.9
70°	480.3	525.2	630.4	721.4	754.8
72.5°	397.9	451.6	558.8	648.6	680.3
75°	319.6	379.8	487.0	571.2	594.1
77.5°	246.8	307.2	414.2	477.4	491.7
80°	179.0	240.1	329.2	373.1	384.6
82.5°	115.8	179.0	238.2	267.8	271.7
85°	64.2	111.0	141.6	150.2	143.5
87.5°	22.9	42.0	41.1	33.4	26.7
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)