

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: P880963

Luminaire Tested: **24CZ2-60VHE-S-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: P880963
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P473969)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 10/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-60VHE-S-B2750-W2D-3000K
Description: 2X4 6000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND SMOOTH LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

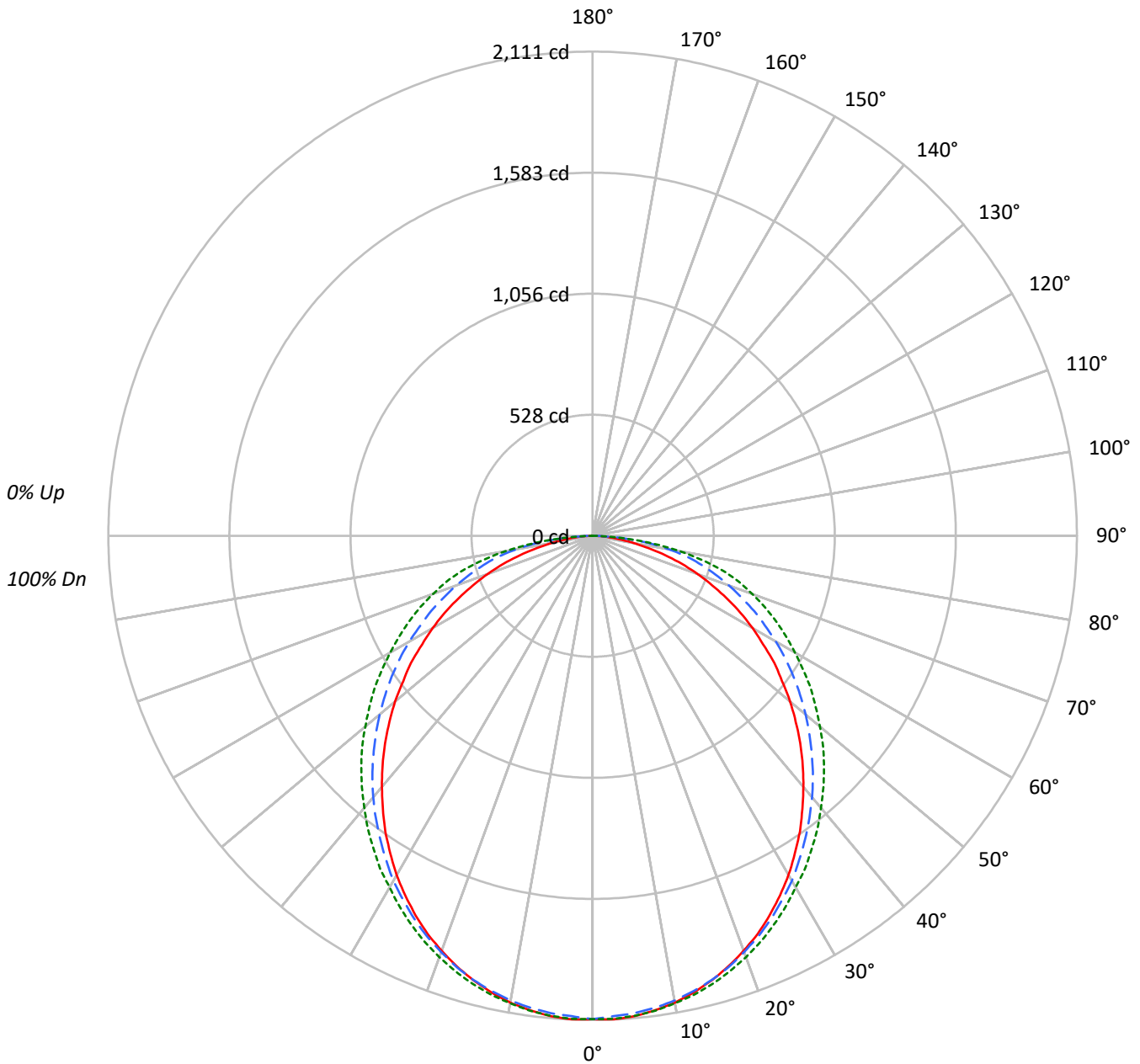
Lumens per Lamp: N/A
Luminaire Lumens: 6038.0 lumens
Efficiency: N/A
Efficacy: 128.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.35
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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				
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			
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83			
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68			
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	59	57			
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	55	51	49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32			
8	60	46	38	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26			
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2975	2975	2975
5°	2979	2960	2976
10°	2962	2949	2966
15°	2931	2930	2955
20°	2891	2900	2936
25°	2843	2868	2913
30°	2783	2832	2885
35°	2713	2782	2869
40°	2633	2741	2852
45°	2554	2698	2846
50°	2467	2661	2840
55°	2379	2628	2855
60°	2271	2603	2875
65°	2150	2593	2945
70°	2005	2607	3049
75°	1785	2682	3212
80°	1459	2741	3136
85°	1028	2393	2442



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.2	3.3
10°-20°	567.5	9.4
20°-30°	850.6	14.1
30°-40°	1013.1	16.8
40°-50°	1044.6	17.3
50°-60°	953.2	15.8
60°-70°	762.2	12.6
70°-80°	497.9	8.2
80°-90°	149.5	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°	1617.4	26.8
0°-40°	2630.5	43.6
0°-60°	4628.4	76.7
0°-90°	6038.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6038.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2108	2108	2108	2108	2108	
5°	2103	2098	2090	2103	2101	199
15°	2006	2007	2005	2022	2022	566
25°	1826	1829	1842	1869	1871	841
35°	1575	1586	1615	1655	1665	984
45°	1280	1302	1352	1408	1426	987
55°	967	995	1068	1139	1160	861
65°	644	687	776	853	882	638
75°	327	382	492	571	589	348
85°	64	114	148	151	151	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2107.6	2107.6	2107.6	2107.6	2107.6
2.5°	2110.6	2107.6	2096.5	2109.6	2107.6
5°	2102.7	2098.5	2089.6	2102.7	2100.7
7.5°	2086.6	2084.7	2075.8	2090.6	2088.6
10°	2066.8	2064.9	2057.9	2072.8	2069.8
12.5°	2039.1	2038.2	2033.2	2051.0	2049.0
15°	2006.3	2007.3	2005.3	2022.3	2022.3
17.5°	1968.7	1967.7	1971.7	1992.4	1990.5
20°	1925.0	1926.0	1930.9	1954.9	1954.9
22.5°	1879.5	1878.5	1889.4	1913.1	1915.1
25°	1825.8	1828.8	1841.7	1868.6	1870.6
27.5°	1768.2	1773.4	1789.2	1819.9	1822.9
30°	1707.9	1713.8	1737.6	1766.3	1770.2
32.5°	1641.4	1654.3	1676.0	1712.8	1722.7
35°	1574.9	1585.8	1614.7	1655.3	1665.2
37.5°	1501.5	1519.3	1552.2	1596.7	1609.7
40°	1429.1	1447.1	1487.7	1534.4	1548.2
42.5°	1355.7	1374.7	1421.2	1473.8	1488.6
45°	1279.5	1302.2	1351.7	1408.3	1426.1
47.5°	1201.1	1227.8	1281.5	1342.8	1362.8
50°	1123.8	1150.5	1212.0	1275.3	1293.3
52.5°	1040.4	1074.1	1139.6	1208.1	1225.9
55°	967.0	994.7	1068.2	1138.6	1160.4
57.5°	880.8	918.4	996.7	1068.2	1088.9
60°	804.4	839.0	922.3	994.7	1018.5
62.5°	727.0	762.6	845.9	928.3	950.2
65°	643.7	687.2	776.5	852.9	881.8
67.5°	564.4	609.9	701.3	782.4	812.3
70°	486.0	532.5	631.8	715.1	738.9
72.5°	408.6	457.3	560.4	641.7	669.4
75°	327.3	381.9	491.9	571.3	589.1
77.5°	250.9	311.5	422.5	476.1	489.0
80°	179.5	246.0	337.2	376.0	385.9
82.5°	117.9	182.4	251.9	272.7	269.7
85°	63.5	114.0	147.8	150.8	150.8
87.5°	24.7	45.7	46.7	35.6	33.6
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)