

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: P881020

Luminaire Tested: **24CZ2-70VHE-SQR-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: P881020
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: 24CZ2-70VHE-SQR-B2750-W2D-4000K
Description: 2X4 7000 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

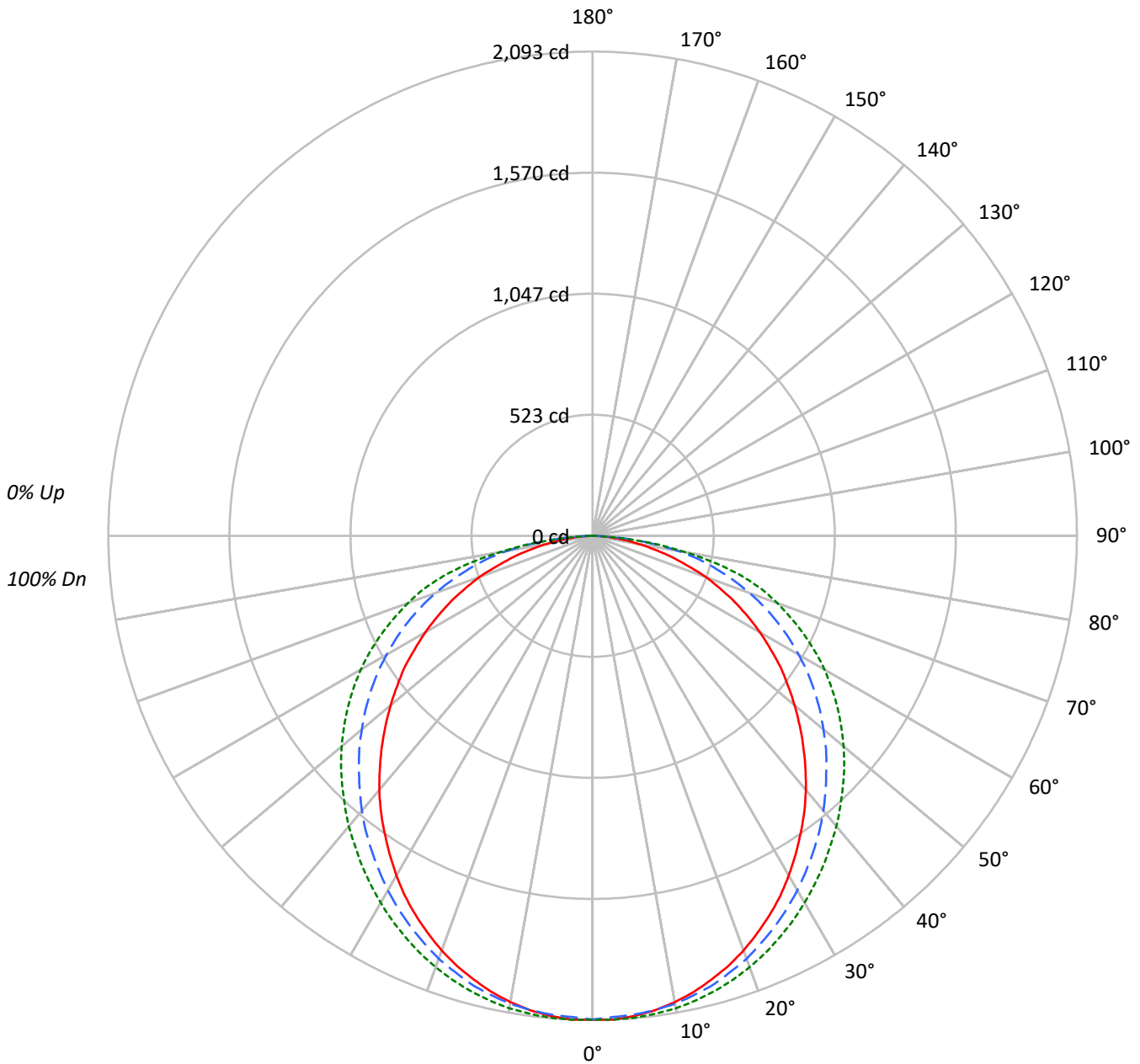
Lumens per Lamp: N/A
Luminaire Lumens: 6367.0 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.39
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2952	2952	2952
5°	2951	2943	2963
10°	2933	2943	2972
15°	2901	2937	2977
20°	2865	2923	2981
25°	2818	2902	2981
30°	2763	2885	2985
35°	2701	2867	2997
40°	2642	2858	3021
45°	2570	2851	3053
50°	2502	2859	3109
55°	2443	2878	3179
60°	2360	2900	3267
65°	2266	2935	3366
70°	2149	2976	3501
75°	1925	3017	3616
80°	1621	3026	3281
85°	1203	2288	2157



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.2	3.1
10°-20°	568.0	8.9
20°-30°	859.8	13.5
30°-40°	1040.1	16.3
40°-50°	1097.9	17.2
50°-60°	1035.4	16.3
60°-70°	853.6	13.4
70°-80°	560.0	8.8
80°-90°	154.0	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°	1626.0	25.5
0°-40°	2666.1	41.9
0°-60°	4799.5	75.4
0°-90°	6367.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6367.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2091	2091	2091	2091	2091	
5°	2083	2083	2077	2091	2091	198
15°	1986	1997	2010	2033	2038	560
25°	1810	1832	1864	1902	1914	833
35°	1568	1608	1664	1721	1739	981
45°	1288	1346	1428	1504	1530	994
55°	993	1063	1170	1257	1292	884
65°	678	760	879	972	1008	670
75°	353	443	553	641	663	373
85°	74	128	141	137	133	92
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2091.4	2091.4	2091.4	2091.4	2091.4
2.5°	2093.3	2091.4	2082.3	2094.4	2093.3
5°	2083.1	2083.1	2077.2	2091.4	2091.4
7.5°	2068.9	2070.0	2067.9	2084.2	2084.2
10°	2046.6	2050.7	2053.6	2072.1	2074.0
12.5°	2020.1	2027.3	2033.3	2055.8	2057.9
15°	1985.5	1996.8	2009.9	2033.3	2037.5
17.5°	1949.9	1963.3	1977.5	2008.0	2013.1
20°	1907.3	1922.5	1945.9	1976.4	1984.5
22.5°	1859.5	1880.7	1905.1	1941.8	1952.0
25°	1809.7	1831.9	1863.6	1902.2	1914.3
27.5°	1755.8	1782.1	1817.7	1862.5	1875.6
30°	1695.7	1726.1	1770.0	1817.7	1831.9
32.5°	1632.5	1668.2	1717.0	1770.0	1786.1
35°	1567.6	1608.1	1664.1	1721.2	1739.4
37.5°	1503.3	1544.1	1610.2	1670.3	1687.5
40°	1434.2	1478.9	1551.3	1615.3	1639.7
42.5°	1361.0	1414.0	1490.2	1561.4	1584.8
45°	1287.8	1345.7	1428.2	1504.4	1529.8
47.5°	1213.5	1277.6	1368.2	1445.4	1474.9
50°	1139.3	1207.4	1302.0	1385.4	1415.9
52.5°	1063.9	1135.2	1237.9	1326.4	1354.0
55°	992.9	1062.9	1169.8	1257.2	1291.8
57.5°	910.3	989.7	1102.6	1191.2	1224.8
60°	836.1	913.5	1027.5	1121.0	1157.5
62.5°	755.7	835.0	955.1	1048.7	1084.3
65°	678.5	759.9	879.0	972.5	1007.9
67.5°	595.1	680.6	802.6	893.2	927.7
70°	520.8	601.2	721.1	813.8	848.4
72.5°	430.2	521.9	636.7	728.3	765.9
75°	353.0	443.4	553.3	640.9	663.2
77.5°	271.6	362.1	471.0	527.8	543.1
80°	199.4	284.7	372.3	402.9	403.7
82.5°	134.3	209.6	259.5	274.7	272.6
85°	74.3	128.1	141.3	137.3	133.2
87.5°	30.6	42.6	34.6	24.4	19.3
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)