

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: P881043

Luminaire Tested: **24CZ2-75VHE-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: P881043
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: 24CZ2-75VHE-SQR-B2750-W2D-3000K
Description: 2X4 7500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3000K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

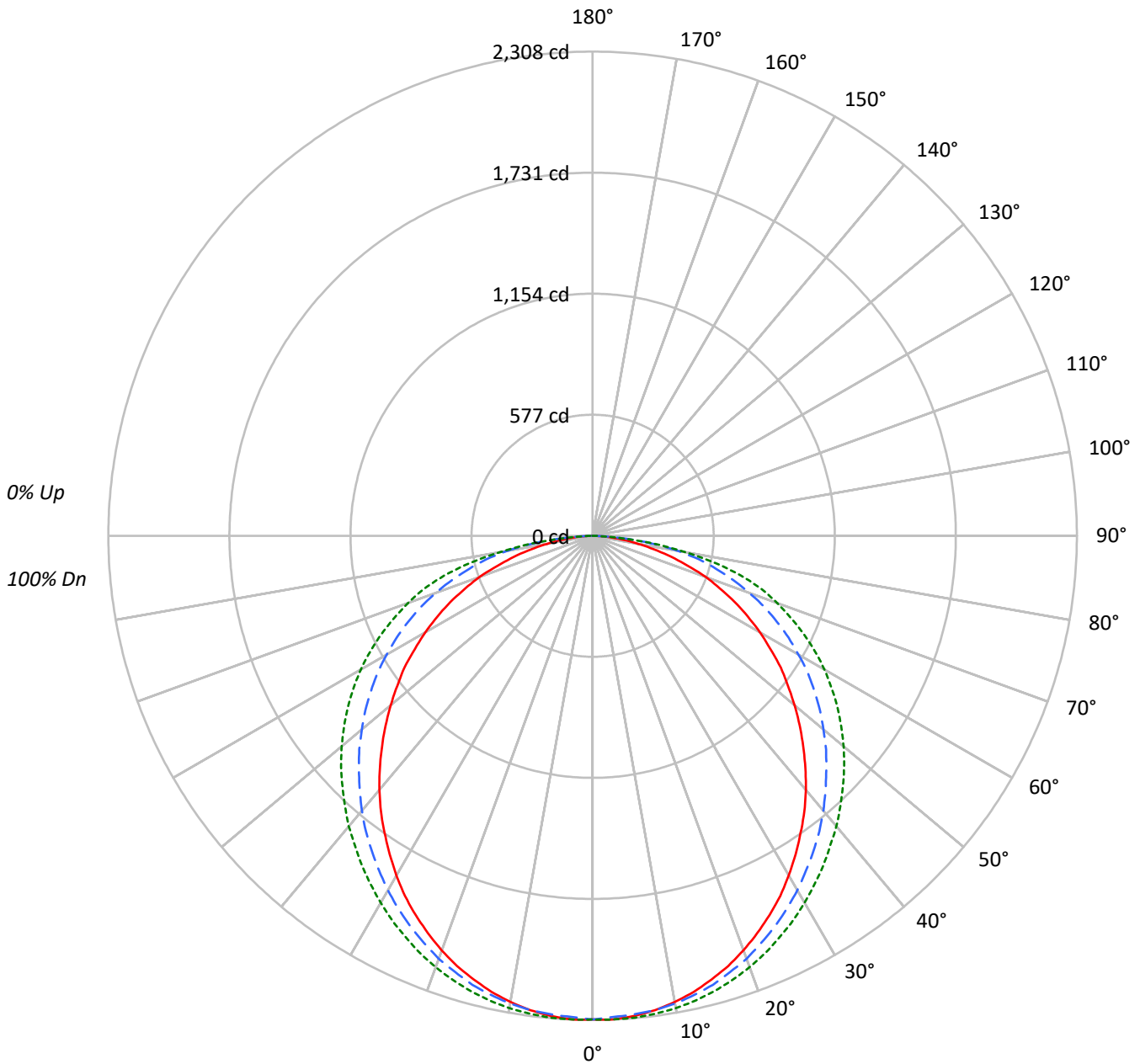
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7020.0 lumens
Efficiency: N/A
Efficacy: 117.0 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): 60
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	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°	3254	3254	3254
5°	3254	3245	3267
10°	3234	3245	3277
15°	3199	3238	3282
20°	3158	3222	3286
25°	3107	3200	3287
30°	3047	3180	3292
35°	2978	3161	3304
40°	2913	3151	3331
45°	2834	3143	3367
50°	2758	3152	3428
55°	2694	3174	3505
60°	2602	3198	3602
65°	2498	3236	3711
70°	2370	3281	3860
75°	2122	3326	3987
80°	1787	3336	3618
85°	1326	2523	2379



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.5	3.1
10°-20°	626.2	8.9
20°-30°	948.0	13.5
30°-40°	1146.8	16.3
40°-50°	1210.5	17.2
50°-60°	1141.6	16.3
60°-70°	941.2	13.4
70°-80°	617.4	8.8
80°-90°	169.8	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°	1792.8	25.5
0°-40°	2939.6	41.9
0°-60°	5291.7	75.4
0°-90°	7020.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7020.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2306	2306	2306	2306	2306	
5°	2297	2297	2290	2306	2306	218
15°	2189	2202	2216	2242	2246	618
25°	1995	2020	2055	2097	2111	919
35°	1728	1773	1835	1898	1918	1082
45°	1420	1484	1575	1659	1687	1096
55°	1095	1172	1290	1386	1424	975
65°	748	838	969	1072	1111	739
75°	389	489	610	707	731	411
85°	82	141	156	151	147	102
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2305.9	2305.9	2305.9	2305.9	2305.9
2.5°	2308.0	2305.9	2295.8	2309.2	2308.0
5°	2296.8	2296.8	2290.2	2305.9	2305.9
7.5°	2281.1	2282.3	2279.9	2297.9	2297.9
10°	2256.5	2261.0	2264.3	2284.6	2286.7
12.5°	2227.3	2235.3	2241.8	2266.6	2268.9
15°	2189.2	2201.6	2216.1	2241.8	2246.5
17.5°	2149.9	2164.6	2180.3	2214.0	2219.6
20°	2102.9	2119.7	2145.4	2179.1	2188.0
22.5°	2050.2	2073.6	2100.5	2141.0	2152.2
25°	1995.3	2019.8	2054.7	2097.3	2110.6
27.5°	1935.9	1964.9	2004.2	2053.5	2068.0
30°	1869.7	1903.1	1951.5	2004.2	2019.8
32.5°	1800.0	1839.2	1893.0	1951.5	1969.3
35°	1728.4	1773.1	1834.8	1897.7	1917.8
37.5°	1657.5	1702.4	1775.4	1841.6	1860.5
40°	1581.2	1630.6	1710.4	1781.0	1807.9
42.5°	1500.5	1559.0	1643.0	1721.6	1747.3
45°	1419.8	1483.7	1574.7	1658.7	1686.7
47.5°	1338.0	1408.6	1508.5	1593.6	1626.2
50°	1256.1	1331.2	1435.5	1527.4	1561.1
52.5°	1173.1	1251.7	1364.9	1462.4	1492.8
55°	1094.7	1171.9	1289.8	1386.2	1424.3
57.5°	1003.7	1091.2	1215.6	1313.4	1350.4
60°	921.8	1007.2	1132.8	1236.0	1276.2
62.5°	833.2	920.7	1053.1	1156.2	1195.5
65°	748.0	837.9	969.1	1072.3	1111.3
67.5°	656.1	750.4	884.9	984.8	1022.9
70°	574.3	662.9	795.1	897.3	935.4
72.5°	474.4	575.4	702.0	803.0	844.4
75°	389.2	488.9	610.0	706.6	731.2
77.5°	299.4	399.3	519.3	582.0	598.8
80°	219.9	313.9	410.5	444.2	445.1
82.5°	148.1	231.1	286.1	302.9	300.6
85°	81.9	141.3	155.8	151.3	146.9
87.5°	33.7	47.0	38.1	26.9	21.3
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)