

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: P881298

Luminaire Tested: **24CZ2-75VHE-SQR-UNV-B50**

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: P881298
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-UNV-B50
Description: 2X4 7500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 5000K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

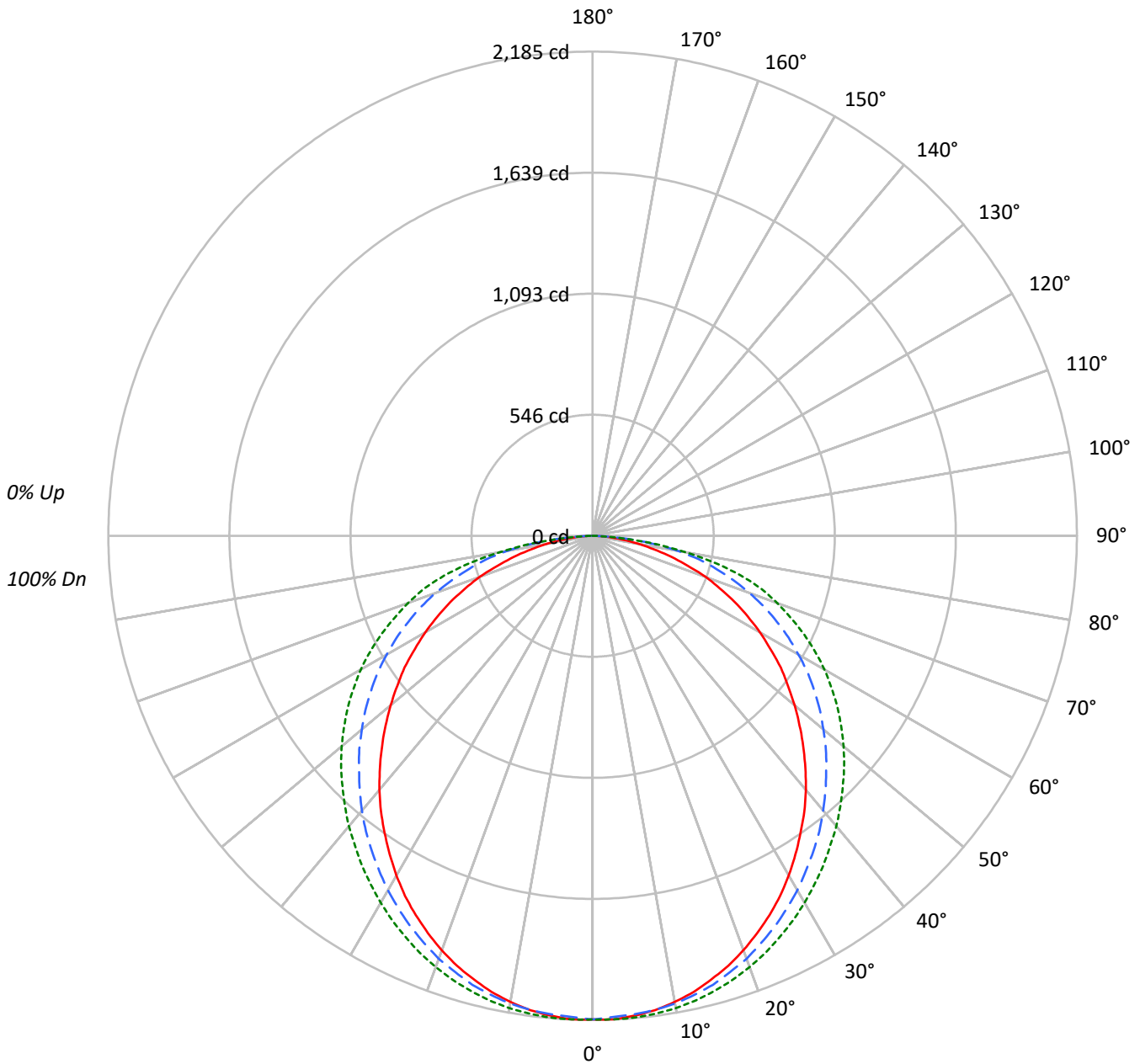
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6645.0 lumens
Efficiency: N/A
Efficacy: 110.8 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					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°	3081	3081	3081
5°	3080	3071	3092
10°	3061	3072	3102
15°	3028	3065	3107
20°	2990	3050	3111
25°	2941	3029	3111
30°	2884	3010	3116
35°	2819	2992	3128
40°	2758	2983	3153
45°	2683	2975	3187
50°	2611	2983	3245
55°	2550	3004	3317
60°	2463	3027	3410
65°	2365	3063	3513
70°	2243	3106	3654
75°	2009	3149	3774
80°	1691	3158	3425
85°	1255	2389	2251



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.8	3.1
10°-20°	592.8	8.9
20°-30°	897.4	13.5
30°-40°	1085.6	16.3
40°-50°	1145.9	17.2
50°-60°	1080.6	16.3
60°-70°	890.9	13.4
70°-80°	584.4	8.8
80°-90°	160.7	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°	1697.0	25.5
0°-40°	2782.6	41.9
0°-60°	5009.0	75.4
0°-90°	6645.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6645.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2183	2183	2183	2183	2183	
5°	2174	2174	2168	2183	2183	206
15°	2072	2084	2098	2122	2126	585
25°	1889	1912	1945	1985	1998	870
35°	1636	1678	1737	1796	1815	1024
45°	1344	1404	1491	1570	1597	1037
55°	1036	1109	1221	1312	1348	923
65°	708	793	917	1015	1052	699
75°	368	463	578	669	692	389
85°	78	134	148	143	139	96
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2182.7	2182.7	2182.7	2182.7	2182.7
2.5°	2184.7	2182.7	2173.2	2185.8	2184.7
5°	2174.1	2174.1	2167.9	2182.7	2182.7
7.5°	2159.3	2160.4	2158.1	2175.2	2175.2
10°	2136.0	2140.2	2143.3	2162.6	2164.6
12.5°	2108.3	2115.9	2122.1	2145.5	2147.7
15°	2072.2	2084.0	2097.7	2122.1	2126.5
17.5°	2035.0	2049.0	2063.8	2095.7	2101.0
20°	1990.5	2006.5	2030.8	2062.7	2071.1
22.5°	1940.7	1962.9	1988.3	2026.6	2037.3
25°	1888.7	1911.9	1944.9	1985.2	1997.8
27.5°	1832.4	1859.9	1897.1	1943.8	1957.5
30°	1769.8	1801.4	1847.3	1897.1	1911.9
32.5°	1703.8	1741.0	1791.9	1847.3	1864.1
35°	1636.0	1678.3	1736.8	1796.4	1815.4
37.5°	1569.0	1611.5	1680.6	1743.2	1761.1
40°	1496.8	1543.5	1619.0	1685.9	1711.3
42.5°	1420.4	1475.7	1555.2	1629.6	1654.0
45°	1344.0	1404.4	1490.6	1570.1	1596.6
47.5°	1266.5	1333.4	1427.9	1508.5	1539.3
50°	1189.0	1260.1	1358.8	1445.8	1477.7
52.5°	1110.4	1184.8	1292.0	1384.3	1413.1
55°	1036.2	1109.3	1220.9	1312.1	1348.2
57.5°	950.1	1032.9	1150.7	1243.3	1278.2
60°	872.6	953.4	1072.3	1170.0	1208.0
62.5°	788.7	871.5	996.8	1094.5	1131.7
65°	708.1	793.1	917.3	1015.0	1051.9
67.5°	621.1	710.3	837.6	932.2	968.3
70°	543.6	627.5	752.6	849.4	885.4
72.5°	449.0	544.7	664.5	760.1	799.3
75°	368.4	462.8	577.5	668.9	692.1
77.5°	283.4	378.0	491.5	550.9	566.8
80°	208.1	297.1	388.6	420.5	421.4
82.5°	140.2	218.8	270.8	286.7	284.5
85°	77.5	133.7	147.5	143.3	139.0
87.5°	31.9	44.5	36.1	25.5	20.1
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)