

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: P881044

Luminaire Tested: **24CZ2-75VHE-SQR-B2750-W2D-3500K**

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: P881044
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-3500K
Description: 2X4 7500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

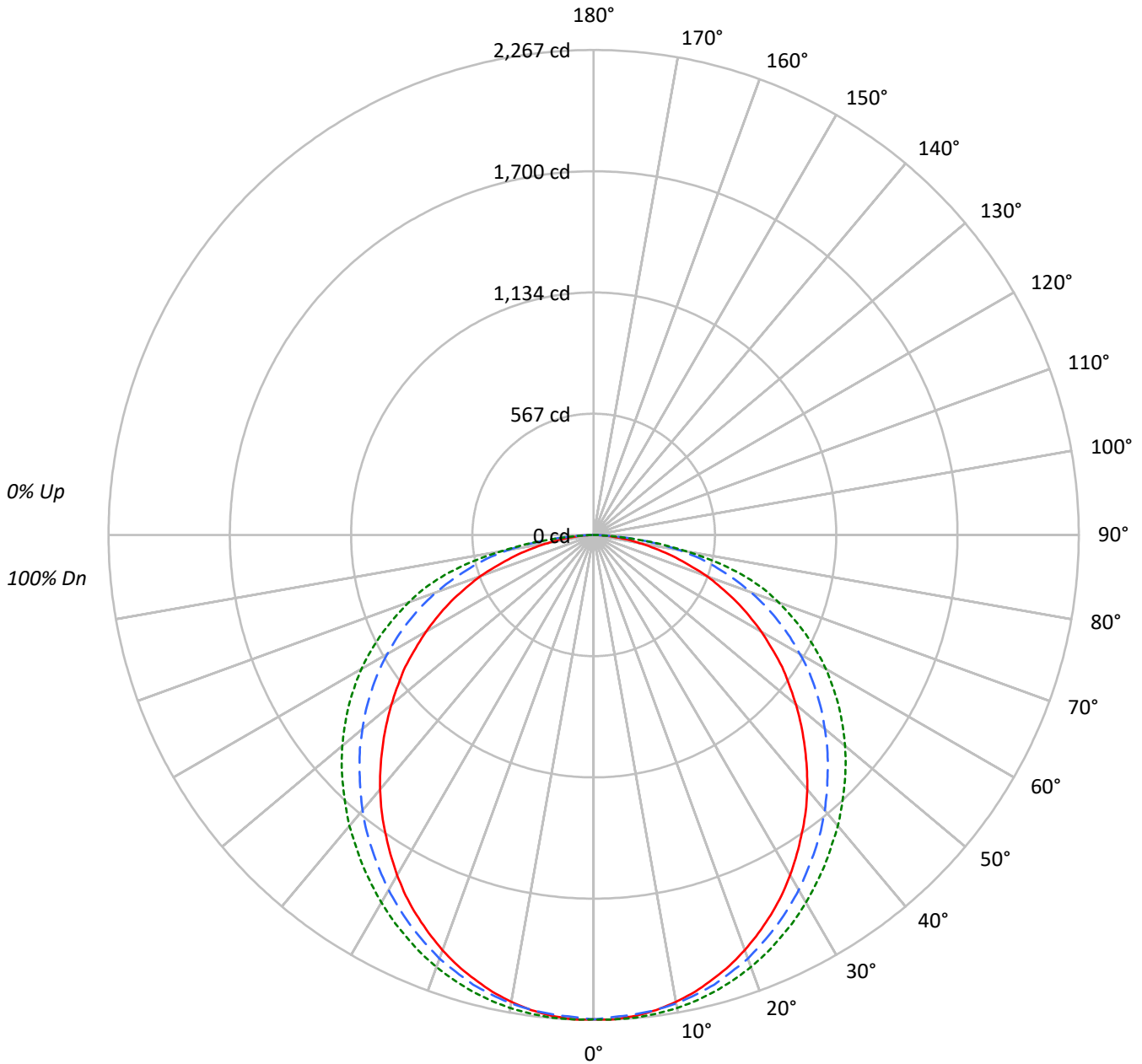
Lumens per Lamp: N/A
Luminaire Lumens: 6895.0 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.39
Luminous Opening: Rectangular (W 1.92' x L: 3.98' x H: 0')
CIE Type: Direct

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				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				100
1	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	87	84	82				82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68				68
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56				56
4	81	69	59	53	79	67	59	52	65	57	51	62	56	51	60	55	50	48				48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41				41
6	69	55	46	39	67	54	45	39	52	44	39	50	43	38	49	43	38	36				36
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	31				31
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28				28
9	55	42	33	28	54	41	33	27	40	32	27	39	32	27	38	31	27	25				25
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23				23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3196	3196	3196
5°	3196	3187	3209
10°	3176	3187	3219
15°	3142	3180	3224
20°	3102	3165	3228
25°	3052	3143	3228
30°	2993	3124	3233
35°	2925	3105	3245
40°	2861	3095	3272
45°	2784	3087	3307
50°	2709	3096	3367
55°	2646	3117	3442
60°	2556	3141	3538
65°	2454	3179	3645
70°	2327	3222	3791
75°	2085	3267	3916
80°	1756	3277	3553
85°	1302	2478	2337



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.6	3.1
10°-20°	615.1	8.9
20°-30°	931.1	13.5
30°-40°	1126.4	16.3
40°-50°	1189.0	17.2
50°-60°	1121.2	16.3
60°-70°	924.4	13.4
70°-80°	606.4	8.8
80°-90°	166.7	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°	1760.9	25.5
0°-40°	2887.3	41.9
0°-60°	5197.5	75.4
0°-90°	6895.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6895.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2265	2265	2265	2265	2265	
5°	2256	2256	2250	2265	2265	214
15°	2150	2162	2177	2202	2206	607
25°	1960	1984	2018	2060	2073	902
35°	1698	1742	1802	1864	1884	1063
45°	1395	1457	1547	1629	1657	1076
55°	1075	1151	1267	1362	1399	958
65°	735	823	952	1053	1092	725
75°	382	480	599	694	718	404
85°	80	139	153	149	144	100
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2264.8	2264.8	2264.8	2264.8	2264.8
2.5°	2266.9	2264.8	2255.0	2268.1	2266.9
5°	2255.9	2255.9	2249.5	2264.8	2264.8
7.5°	2240.5	2241.6	2239.3	2257.0	2257.0
10°	2216.4	2220.7	2223.9	2243.9	2246.0
12.5°	2187.6	2195.5	2201.9	2226.2	2228.5
15°	2150.2	2162.4	2176.6	2201.9	2206.5
17.5°	2111.6	2126.1	2141.5	2174.6	2180.1
20°	2065.4	2082.0	2107.2	2140.3	2149.1
22.5°	2013.7	2036.7	2063.1	2102.9	2113.9
25°	1959.7	1983.9	2018.1	2059.9	2073.0
27.5°	1901.4	1929.9	1968.5	2016.9	2031.2
30°	1836.4	1869.2	1916.8	1968.5	1983.9
32.5°	1767.9	1806.5	1859.3	1916.8	1934.2
35°	1697.6	1741.5	1802.1	1863.9	1883.7
37.5°	1628.0	1672.1	1743.8	1808.8	1827.4
40°	1553.1	1601.6	1679.9	1749.3	1775.7
42.5°	1473.8	1531.3	1613.7	1690.9	1716.2
45°	1394.6	1457.3	1546.7	1629.1	1656.7
47.5°	1314.2	1383.5	1481.6	1565.3	1597.2
50°	1233.7	1307.5	1410.0	1500.2	1533.3
52.5°	1152.2	1229.4	1340.6	1436.4	1466.2
55°	1075.2	1151.0	1266.8	1361.5	1398.9
57.5°	985.8	1071.8	1194.0	1290.0	1326.3
60°	905.4	989.3	1112.7	1214.0	1253.5
62.5°	818.4	904.3	1034.3	1135.6	1174.2
65°	734.7	823.0	951.8	1053.2	1091.5
67.5°	644.4	737.0	869.1	967.2	1004.7
70°	564.0	651.1	780.9	881.3	918.8
72.5°	465.9	565.2	689.5	788.7	829.4
75°	382.3	480.2	599.2	694.1	718.2
77.5°	294.1	392.2	510.0	571.6	588.2
80°	216.0	308.3	403.2	436.3	437.2
82.5°	145.4	227.0	281.0	297.5	295.2
85°	80.4	138.8	153.0	148.6	144.3
87.5°	33.1	46.2	37.4	26.4	20.9
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)