

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: P881237

Luminaire Tested: **24CZ2-55VHE-SQR-UNV-B40**

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: P881237
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: 24CZ2-55VHE-SQR-UNV-B40
Description: 2X4 5500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 4000K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

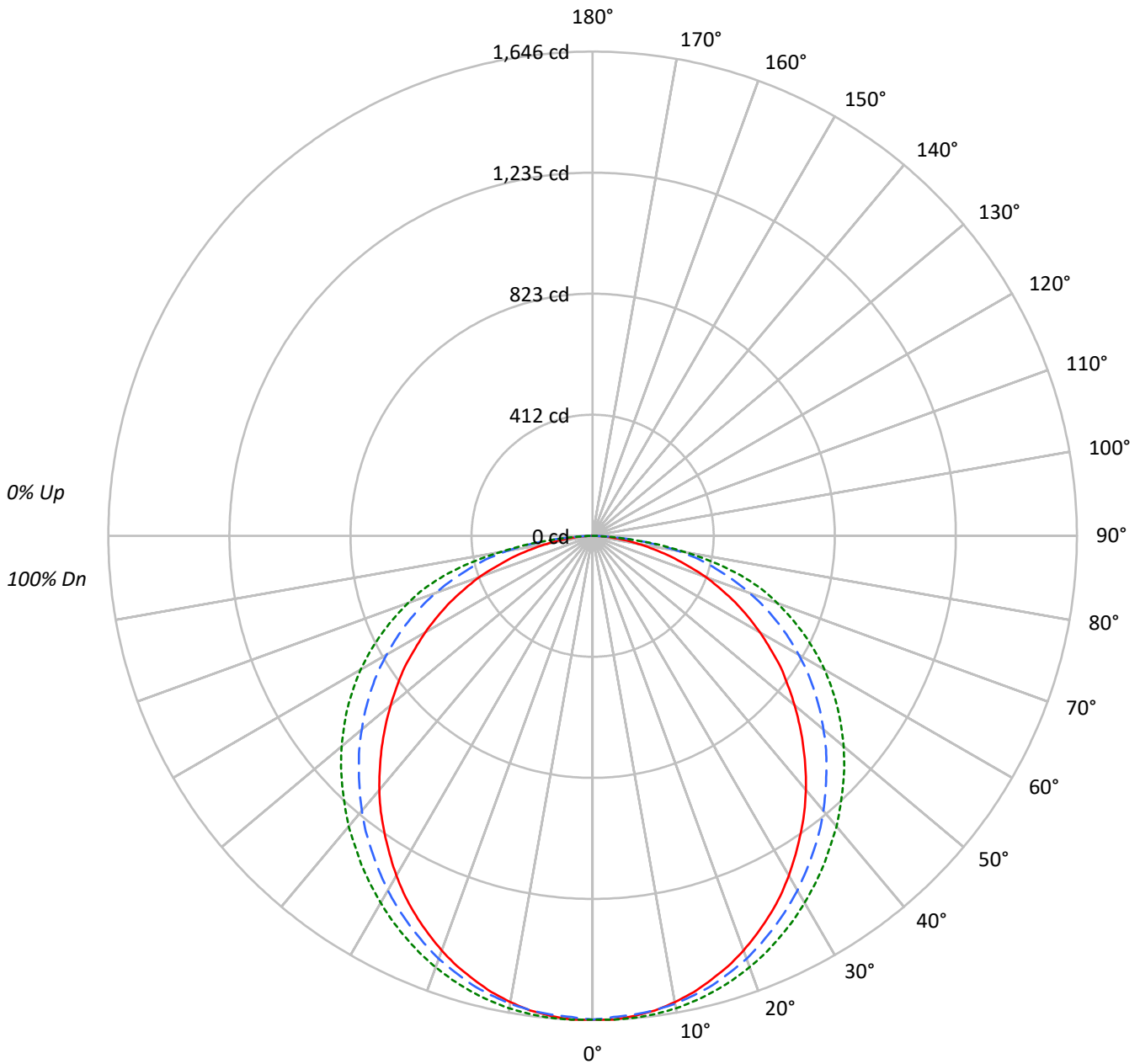
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5008.0 lumens
Efficiency: N/A
Efficacy: 116.5 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): 43
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°	2322	2322	2322
5°	2321	2315	2331
10°	2307	2315	2338
15°	2282	2310	2342
20°	2253	2299	2344
25°	2217	2283	2345
30°	2174	2269	2348
35°	2124	2255	2357
40°	2078	2248	2376
45°	2022	2242	2402
50°	1968	2249	2445
55°	1922	2264	2500
60°	1856	2281	2570
65°	1782	2309	2648
70°	1691	2341	2754
75°	1514	2373	2844
80°	1275	2381	2581
85°	946	1799	1697



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.9	3.1
10°-20°	446.8	8.9
20°-30°	676.3	13.5
30°-40°	818.1	16.3
40°-50°	863.6	17.2
50°-60°	814.4	16.3
60°-70°	671.4	13.4
70°-80°	440.5	8.8
80°-90°	121.1	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°	1279.0	25.5
0°-40°	2097.1	41.9
0°-60°	3775.1	75.4
0°-90°	5008.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5008.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1645	1645	1645	1645	1645	
5°	1638	1638	1634	1645	1645	156
15°	1562	1571	1581	1599	1603	441
25°	1423	1441	1466	1496	1506	655
35°	1233	1265	1309	1354	1368	772
45°	1013	1058	1123	1183	1203	782
55°	781	836	920	989	1016	696
65°	534	598	691	765	793	527
75°	278	349	435	504	522	293
85°	58	101	111	108	105	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1645.0	1645.0	1645.0	1645.0	1645.0
2.5°	1646.5	1645.0	1637.8	1647.3	1646.5
5°	1638.5	1638.5	1633.8	1645.0	1645.0
7.5°	1627.3	1628.2	1626.5	1639.3	1639.3
10°	1609.8	1613.0	1615.3	1629.8	1631.3
12.5°	1588.9	1594.6	1599.3	1617.0	1618.6
15°	1561.7	1570.6	1580.9	1599.3	1602.6
17.5°	1533.7	1544.2	1555.4	1579.4	1583.4
20°	1500.2	1512.2	1530.5	1554.6	1560.9
22.5°	1462.6	1479.3	1498.5	1527.4	1535.4
25°	1423.4	1440.9	1465.8	1496.2	1505.7
27.5°	1381.0	1401.7	1429.7	1465.0	1475.3
30°	1333.8	1357.7	1392.2	1429.7	1440.9
32.5°	1284.1	1312.1	1350.5	1392.2	1404.9
35°	1233.0	1264.9	1308.9	1353.8	1368.2
37.5°	1182.4	1214.5	1266.5	1313.8	1327.3
40°	1128.0	1163.3	1220.2	1270.6	1289.7
42.5°	1070.5	1112.2	1172.1	1228.2	1246.5
45°	1012.9	1058.5	1123.4	1183.3	1203.3
47.5°	954.5	1004.9	1076.1	1136.9	1160.1
50°	896.1	949.7	1024.1	1089.7	1113.7
52.5°	836.9	892.9	973.7	1043.3	1065.0
55°	781.0	836.0	920.1	988.9	1016.1
57.5°	716.0	778.5	867.2	937.0	963.3
60°	657.6	718.5	808.2	881.7	910.4
62.5°	594.4	656.8	751.3	824.8	852.9
65°	533.7	597.7	691.3	764.9	792.8
67.5°	468.1	535.3	631.3	702.5	729.7
70°	409.7	472.9	567.2	640.1	667.3
72.5°	338.4	410.5	500.8	572.9	602.4
75°	277.7	348.8	435.2	504.1	521.6
77.5°	213.6	284.8	370.5	415.2	427.2
80°	156.9	223.9	292.9	316.9	317.6
82.5°	105.6	164.9	204.1	216.1	214.4
85°	58.4	100.8	111.1	108.0	104.8
87.5°	24.0	33.5	27.2	19.2	15.2
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)