

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: P881236

Luminaire Tested: **24CZ2-55VHE-SQR-UNV-B35**

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: P881236
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-B35
Description: 2X4 5500 LUMEN CRUZE TROFFER WITH BIO UP LEDS AT 3500K CCT AND SQR LENS

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

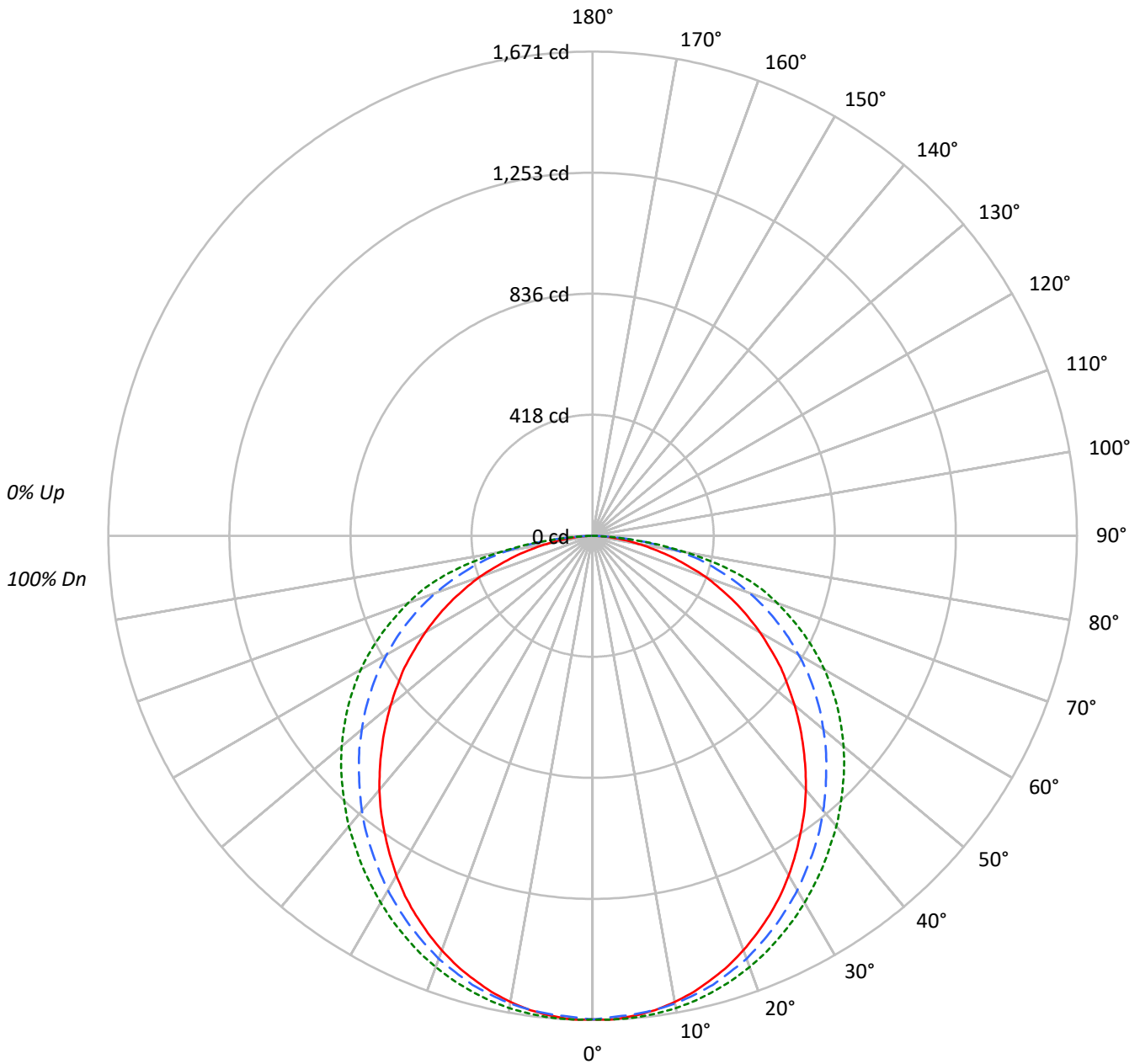
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5082.0 lumens
Efficiency: N/A
Efficacy: 118.2 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°	2356	2356	2356
5°	2356	2349	2365
10°	2341	2349	2372
15°	2316	2344	2376
20°	2286	2333	2379
25°	2249	2316	2379
30°	2206	2302	2383
35°	2156	2289	2392
40°	2109	2281	2411
45°	2052	2275	2437
50°	1997	2282	2481
55°	1950	2297	2537
60°	1884	2315	2608
65°	1808	2343	2687
70°	1715	2375	2794
75°	1537	2408	2886
80°	1294	2416	2619
85°	960	1827	1721



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.2	3.1
10°-20°	453.4	8.9
20°-30°	686.3	13.5
30°-40°	830.2	16.3
40°-50°	876.3	17.2
50°-60°	826.4	16.3
60°-70°	681.3	13.4
70°-80°	447.0	8.8
80°-90°	122.9	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°	1297.8	25.5
0°-40°	2128.1	41.9
0°-60°	3830.8	75.4
0°-90°	5082.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5082.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1669	1669	1669	1669	1669	
5°	1663	1663	1658	1669	1669	158
15°	1585	1594	1604	1623	1626	447
25°	1444	1462	1487	1518	1528	665
35°	1251	1284	1328	1374	1388	783
45°	1028	1074	1140	1201	1221	793
55°	792	848	934	1004	1031	706
65°	542	607	702	776	804	535
75°	282	354	442	512	529	298
85°	59	102	113	110	106	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1669.3	1669.3	1669.3	1669.3	1669.3
2.5°	1670.8	1669.3	1662.0	1671.7	1670.8
5°	1662.7	1662.7	1658.0	1669.3	1669.3
7.5°	1651.4	1652.2	1650.5	1663.6	1663.6
10°	1633.6	1636.8	1639.2	1653.9	1655.4
12.5°	1612.4	1618.2	1622.9	1640.9	1642.6
15°	1584.8	1593.8	1604.3	1622.9	1626.3
17.5°	1556.4	1567.0	1578.4	1602.8	1606.8
20°	1522.3	1534.5	1553.2	1577.5	1584.0
22.5°	1484.2	1501.2	1520.6	1549.9	1558.1
25°	1444.4	1462.2	1487.4	1518.3	1527.9
27.5°	1401.4	1422.4	1450.9	1486.6	1497.1
30°	1353.5	1377.7	1412.8	1450.9	1462.2
32.5°	1303.0	1331.5	1370.4	1412.8	1425.6
35°	1251.2	1283.6	1328.3	1373.8	1388.4
37.5°	1199.9	1232.4	1285.3	1333.2	1346.9
40°	1144.7	1180.4	1238.2	1289.3	1308.8
42.5°	1086.3	1128.6	1189.4	1246.3	1264.9
45°	1027.9	1074.1	1140.0	1200.8	1221.1
47.5°	968.6	1019.7	1092.0	1153.7	1177.2
50°	909.3	963.7	1039.2	1105.8	1130.1
52.5°	849.2	906.1	988.1	1058.7	1080.7
55°	792.5	848.4	933.7	1003.5	1031.1
57.5°	726.6	790.0	880.0	950.8	977.6
60°	667.4	729.2	820.1	894.8	923.9
62.5°	603.2	666.5	762.4	837.0	865.5
65°	541.5	606.6	701.6	776.2	804.5
67.5°	475.0	543.2	640.6	712.9	740.5
70°	415.7	479.9	575.6	649.6	677.2
72.5°	343.4	416.6	508.2	581.3	611.3
75°	281.8	353.9	441.6	511.6	529.3
77.5°	216.8	289.1	375.9	421.3	433.5
80°	159.2	227.2	297.2	321.6	322.2
82.5°	107.2	167.3	207.1	219.3	217.6
85°	59.3	102.3	112.8	109.6	106.3
87.5°	24.4	34.0	27.6	19.5	15.4
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)