

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: P272170

Luminaire Tested: **24CZ2-55-S-UNV-L935-CD1-U**

Issue Date: 3/3/2020

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: P272170
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-55-S-UNV-L935-CD1-U
Description: 2'x4' TROFFER LED MODULE,SMOOTH LENS, 90CRI
Light Source: (112) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

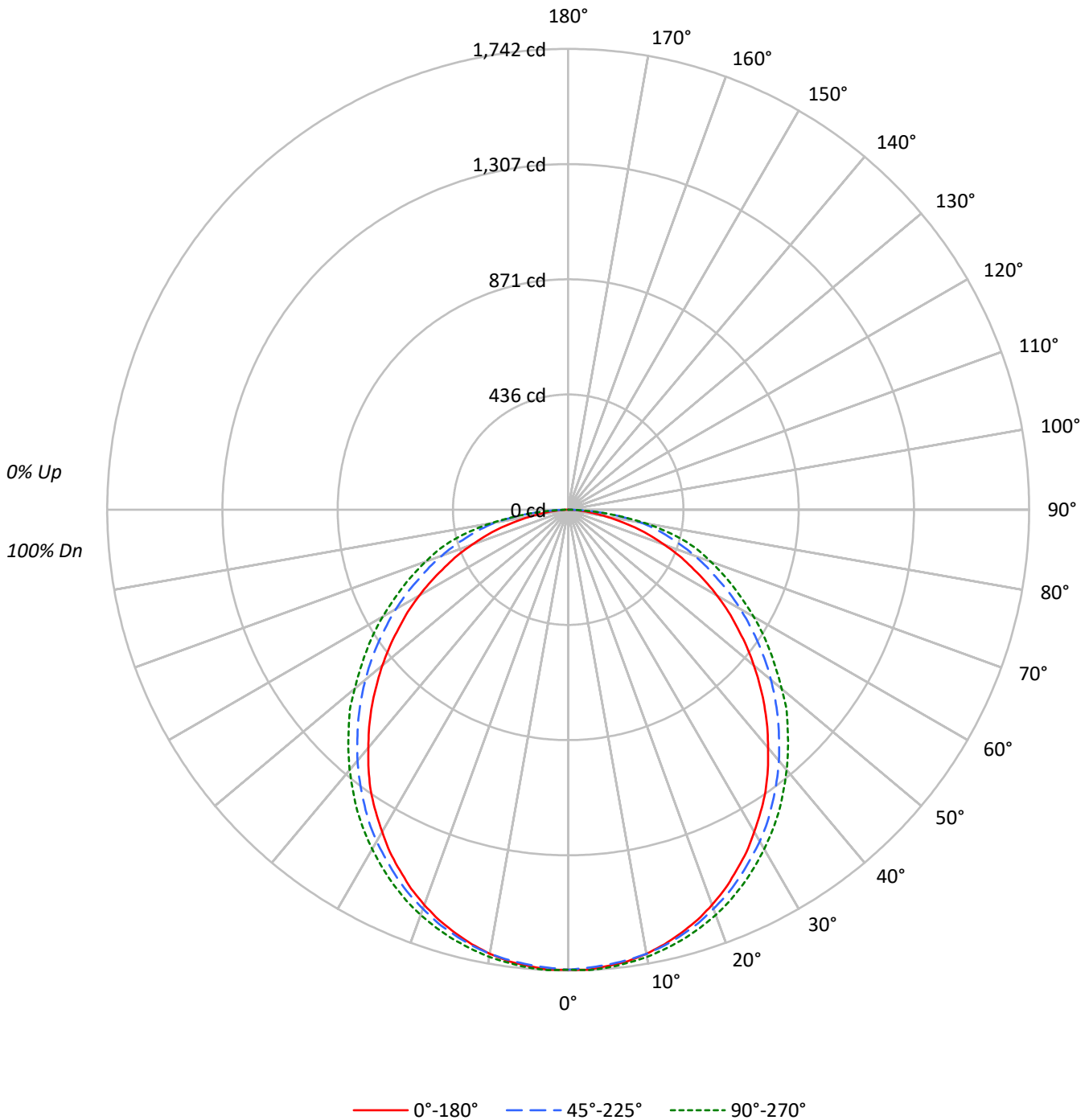
Lumens per Lamp: N/A
Luminaire Lumens: 4950.0 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 50.5
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2340	2340	2340
5°	2338	2332	2347
10°	2329	2329	2346
15°	2306	2317	2341
20°	2276	2299	2335
25°	2234	2276	2320
30°	2184	2250	2301
35°	2136	2213	2283
40°	2063	2176	2256
45°	1995	2133	2232
50°	1919	2093	2205
55°	1833	2054	2183
60°	1748	2023	2179
65°	1637	1987	2193
70°	1515	1998	2251
75°	1357	2035	2378
80°	1096	2156	2327
85°	826	1893	1845



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.6	3.3
10°-20°	470.4	9.5
20°-30°	707.1	14.3
30°-40°	842.3	17.0
40°-50°	862.1	17.4
50°-60°	776.1	15.7
60°-70°	609.5	12.3
70°-80°	395.6	8.0
80°-90°	122.3	2.5
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°	1342.2	27.1
0°-40°	2184.5	44.1
0°-60°	3822.6	77.2
0°-90°	4950.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4950.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1739	1739	1739	1739	1739	
5°	1731	1734	1726	1736	1737	164
15°	1656	1660	1664	1678	1681	467
25°	1505	1517	1533	1558	1563	693
35°	1300	1316	1348	1380	1390	811
45°	1049	1074	1121	1164	1173	809
55°	781	816	876	921	931	701
65°	514	554	624	676	689	512
75°	261	311	392	445	458	276
85°	54	99	123	120	120	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1739.0	1739.0	1739.0	1739.0	1739.0
2.5°	1740.5	1740.5	1732.7	1740.5	1742.1
5°	1731.1	1734.3	1726.4	1735.8	1737.4
7.5°	1721.7	1721.7	1717.0	1726.4	1728.0
10°	1704.4	1705.9	1704.4	1715.4	1717.0
12.5°	1682.4	1685.5	1687.1	1698.1	1699.7
15°	1655.6	1660.4	1663.5	1677.6	1680.8
17.5°	1625.8	1630.5	1638.3	1654.1	1657.2
20°	1589.6	1595.9	1605.3	1625.8	1630.5
22.5°	1550.3	1556.6	1572.3	1591.2	1599.0
25°	1504.7	1517.3	1533.0	1558.2	1562.9
27.5°	1459.1	1470.1	1490.5	1517.3	1523.6
30°	1405.6	1422.9	1448.1	1474.8	1481.1
32.5°	1353.8	1371.0	1400.9	1429.2	1437.1
35°	1300.3	1316.0	1347.5	1380.5	1389.9
37.5°	1239.0	1259.4	1294.0	1327.0	1336.5
40°	1174.5	1199.7	1239.0	1273.6	1284.6
42.5°	1113.2	1139.9	1179.2	1217.0	1229.5
45°	1048.7	1073.9	1121.1	1163.5	1172.9
47.5°	982.7	1011.0	1061.3	1103.8	1119.5
50°	916.7	946.5	1000.0	1044.0	1053.4
52.5°	850.6	882.1	938.7	985.8	990.6
55°	781.4	816.0	875.8	921.4	930.8
57.5°	718.5	748.4	812.9	860.0	871.1
60°	649.4	682.4	751.6	795.6	809.7
62.5°	583.3	617.9	690.2	734.3	746.8
65°	514.1	553.5	624.2	676.1	688.7
67.5°	454.4	492.1	567.6	617.9	630.5
70°	385.2	427.7	507.9	559.7	572.3
72.5°	325.5	369.5	449.7	500.0	518.9
75°	261.0	311.3	391.5	445.0	457.5
77.5°	198.1	256.3	338.0	378.9	378.9
80°	141.5	202.8	278.3	297.2	300.3
82.5°	92.8	152.5	206.0	204.4	204.4
85°	53.5	99.1	122.6	119.5	119.5
87.5°	20.4	40.9	44.0	44.0	42.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)