

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: P272098

Luminaire Tested: **24CZ2-55-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: P272098
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-15)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-55-UNV-L935-CD1-U
Description: 2'x4' TROFFER LED MODULE, RIBBED 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: 4711.0 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.29 / 1.38
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

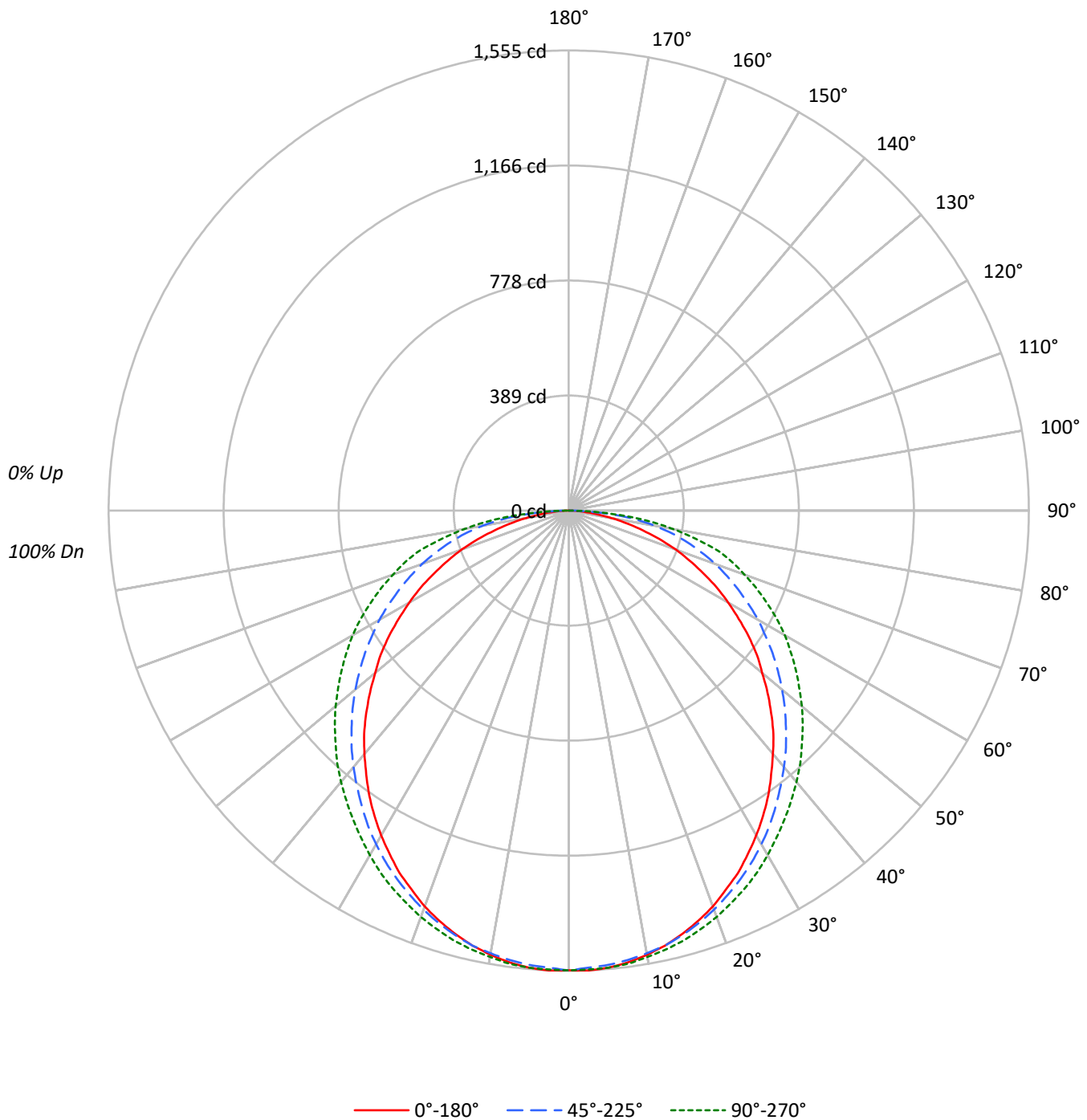
Input Watts (W): 50.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	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		100
1	108	103	98	94	105	100	96	92	96	92	89		92	89	87		82
2	98	89	81	75	95	87	80	74	83	78	73		80	75	71		67
3	89	77	69	62	86	76	68	61	73	66	60		70	64	59		56
4	81	68	59	52	79	67	58	52	64	57	51		62	56	50		47
5	74	61	52	45	72	60	51	44	58	50	44		56	49	43		41
6	69	55	46	39	67	54	45	39	52	44	38		50	43	38		36
7	64	50	41	34	62	49	40	34	47	39	34		46	39	34		31
8	59	45	37	31	57	45	36	30	43	36	30		42	35	30		28
9	55	41	33	27	54	41	33	27	40	32	27		39	32	27		25
10	52	38	30	25	50	38	30	25	37	30	25		36	29	25		23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2090	2090	2090
5°	2094	2081	2094
10°	2082	2076	2093
15°	2064	2068	2094
20°	2039	2055	2092
25°	2007	2040	2091
30°	1969	2023	2088
35°	1931	2003	2090
40°	1886	1988	2103
45°	1841	1975	2120
50°	1786	1970	2153
55°	1742	1973	2196
60°	1674	1989	2271
65°	1597	2011	2354
70°	1513	2072	2484
75°	1349	2162	2714
80°	1151	2289	2773
85°	820	2268	2654



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.0	3.1
10°-20°	420.4	8.9
20°-30°	635.0	13.5
30°-40°	765.3	16.2
40°-50°	803.5	17.1
50°-60°	751.7	16.0
60°-70°	620.8	13.2
70°-80°	423.0	9.0
80°-90°	144.3	3.1
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°	1202.5	25.5
0°-40°	1967.8	41.8
0°-60°	3523.0	74.8
0°-90°	4711.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4711.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1554	1554	1554	1554	1554	
5°	1550	1549	1541	1550	1550	147
15°	1482	1483	1485	1500	1504	418
25°	1352	1358	1374	1400	1408	622
35°	1175	1188	1219	1260	1272	735
45°	968	988	1038	1094	1114	746
55°	742	772	841	910	936	663
65°	502	544	632	711	739	498
75°	260	319	416	494	522	277
85°	53	105	147	166	172	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1553.6	1553.6	1553.6	1553.6	1553.6
2.5°	1555.2	1553.6	1545.8	1553.6	1552.1
5°	1550.5	1549.0	1541.1	1550.5	1550.5
7.5°	1539.6	1539.6	1531.8	1542.7	1544.3
10°	1523.9	1523.9	1519.3	1531.8	1531.8
12.5°	1505.2	1505.2	1505.2	1517.7	1519.3
15°	1481.7	1483.3	1484.9	1500.5	1503.6
17.5°	1453.6	1456.7	1461.4	1480.2	1483.3
20°	1423.9	1427.0	1434.9	1456.7	1461.4
22.5°	1386.4	1394.2	1405.2	1430.2	1434.9
25°	1352.0	1358.3	1373.9	1400.5	1408.3
27.5°	1309.8	1319.2	1339.5	1367.6	1378.6
30°	1267.6	1277.0	1302.0	1334.8	1344.2
32.5°	1222.3	1236.4	1262.9	1297.3	1308.3
35°	1175.4	1187.9	1219.2	1259.8	1272.3
37.5°	1123.8	1141.0	1175.4	1219.2	1234.8
40°	1073.8	1092.6	1131.6	1178.5	1197.3
42.5°	1023.8	1042.5	1086.3	1139.4	1158.2
45°	967.5	987.8	1037.8	1094.1	1114.4
47.5°	911.2	936.3	991.0	1050.4	1072.2
50°	853.4	881.5	940.9	1003.5	1028.5
52.5°	801.8	828.4	890.9	958.1	981.6
55°	742.4	772.1	840.9	909.7	936.3
57.5°	681.5	714.3	787.8	862.8	889.4
60°	622.1	658.0	739.3	814.3	844.0
62.5°	564.3	600.2	684.6	762.8	792.5
65°	501.7	543.9	631.5	711.2	739.3
67.5°	442.3	487.7	579.9	658.0	686.2
70°	384.5	428.3	526.7	603.3	631.5
72.5°	322.0	372.0	470.5	550.2	579.9
75°	259.5	318.9	415.8	493.9	522.1
77.5°	201.6	262.6	359.5	423.6	437.6
80°	148.5	211.0	295.4	340.7	357.9
82.5°	95.3	157.9	225.1	257.9	272.0
85°	53.1	104.7	146.9	165.7	171.9
87.5°	21.9	45.3	59.4	67.2	67.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)