

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: P225674

Luminaire Tested: **24AC-LD5-68-RDP-UNV-L835-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: P225674
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35755)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24AC-LD5-68-RDP-UNV-L835-CD1-U
Description: METALUX Accord 2X4 LED TROFFER WITH RDP LENS
Light Source: (168)3500K CCT, 85 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5804.8 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.35 / 1.44
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

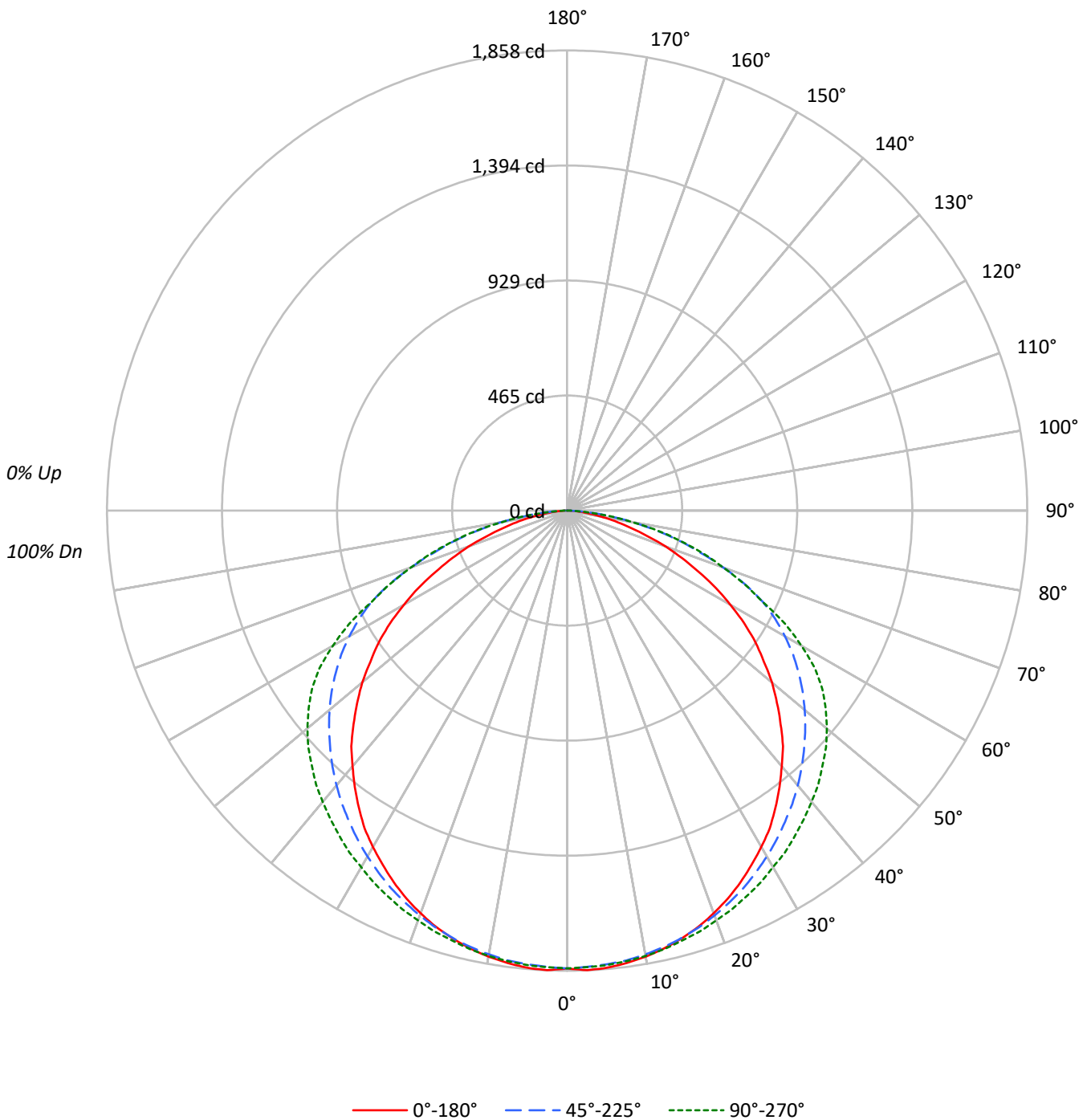
Input Watts (W): 65.05
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	99	95	106	101	97	93	97	94	90	93	90	88	89	87	85
2	98	90	82	77	95	88	81	76	84	79	74	81	76	72	78	74	70
3	89	78	70	63	87	77	69	62	74	67	61	71	65	60	68	63	59
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	60	55	50
5	75	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43
6	69	55	46	39	67	54	45	39	52	44	39	51	44	38	49	43	38
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	45	38	34
8	59	45	37	31	58	45	36	30	43	36	30	42	35	30	41	35	30
9	55	41	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27
10	52	38	30	25	50	38	30	25	37	30	25	36	29	24	35	29	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2487	2487	2487
5°	2503	2484	2488
10°	2499	2486	2494
15°	2490	2488	2503
20°	2478	2491	2521
25°	2459	2497	2549
30°	2437	2505	2583
35°	2408	2519	2634
40°	2367	2545	2697
45°	2320	2576	2775
50°	2261	2622	2865
55°	2179	2675	2952
60°	2048	2731	2943
65°	1869	2774	2769
70°	1660	2636	2636
75°	1353	2430	2462
80°	1043	2098	2063
85°	724	1377	1284



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.2	3.0
10°-20°	505.0	8.7
20°-30°	776.3	13.4
30°-40°	960.5	16.5
40°-50°	1039.8	17.9
50°-60°	997.3	17.2
60°-70°	791.6	13.6
70°-80°	454.6	7.8
80°-90°	104.4	1.8
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°	1456.5	25.1
0°-40°	2417.0	41.6
0°-60°	4454.1	76.7
0°-90°	5804.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5804.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1848	1848	1848	1848	1848	
5°	1853	1844	1839	1836	1842	176
15°	1788	1783	1786	1790	1797	505
25°	1656	1661	1682	1703	1717	763
35°	1466	1485	1534	1581	1603	917
45°	1219	1266	1354	1429	1458	941
55°	929	1010	1140	1227	1258	827
65°	587	726	871	883	870	583
75°	260	419	467	472	474	282
85°	47	82	89	85	83	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1848.5	1848.5	1848.5	1848.5	1848.5
2.5°	1857.5	1848.5	1843.9	1840.9	1845.4
5°	1853.0	1843.9	1839.4	1836.4	1842.4
7.5°	1842.4	1834.8	1831.8	1830.3	1834.8
10°	1828.8	1821.2	1819.7	1818.2	1825.8
12.5°	1810.6	1804.6	1804.6	1804.6	1813.7
15°	1787.9	1783.4	1786.4	1789.5	1797.0
17.5°	1762.2	1757.7	1765.3	1771.3	1781.9
20°	1730.5	1730.5	1739.5	1748.6	1760.7
22.5°	1695.7	1698.7	1712.3	1727.4	1741.1
25°	1656.3	1660.9	1682.1	1703.2	1716.9
27.5°	1612.5	1621.6	1648.8	1676.0	1692.6
30°	1568.6	1577.7	1612.5	1645.8	1662.4
32.5°	1521.7	1532.3	1574.7	1614.0	1636.7
35°	1465.8	1485.4	1533.8	1580.7	1603.4
37.5°	1408.3	1435.5	1493.0	1545.9	1570.1
40°	1347.8	1381.0	1449.1	1509.6	1535.3
42.5°	1290.3	1325.1	1402.2	1470.3	1500.5
45°	1219.2	1266.1	1353.8	1429.4	1458.2
47.5°	1149.6	1205.6	1303.9	1384.1	1417.3
50°	1080.0	1142.0	1252.5	1340.2	1368.9
52.5°	1001.4	1077.0	1198.0	1285.7	1316.0
55°	928.8	1010.4	1140.5	1226.8	1258.5
57.5°	848.6	940.9	1081.5	1166.2	1185.9
60°	760.9	869.8	1015.0	1087.6	1093.6
62.5°	677.7	800.2	946.9	992.3	993.8
65°	586.9	726.1	871.3	883.4	869.8
67.5°	502.2	647.4	777.5	768.4	773.0
70°	422.0	573.3	670.1	674.6	670.1
72.5°	334.3	496.1	564.2	574.8	576.3
75°	260.2	419.0	467.4	471.9	473.5
77.5°	198.2	335.8	364.5	372.1	376.6
80°	134.6	234.5	270.8	273.8	266.2
82.5°	87.7	151.3	172.4	172.4	170.9
85°	46.9	81.7	89.2	84.7	83.2
87.5°	16.6	24.2	27.2	27.2	27.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)