

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: P225647

Luminaire Tested: **24AC-LD5-68-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: P225647
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35753)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24AC-LD5-68-UNV-L835-CD1-U
Description: METALUX Accord 2X4 LED TROFFER
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: 6800.0 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.32 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

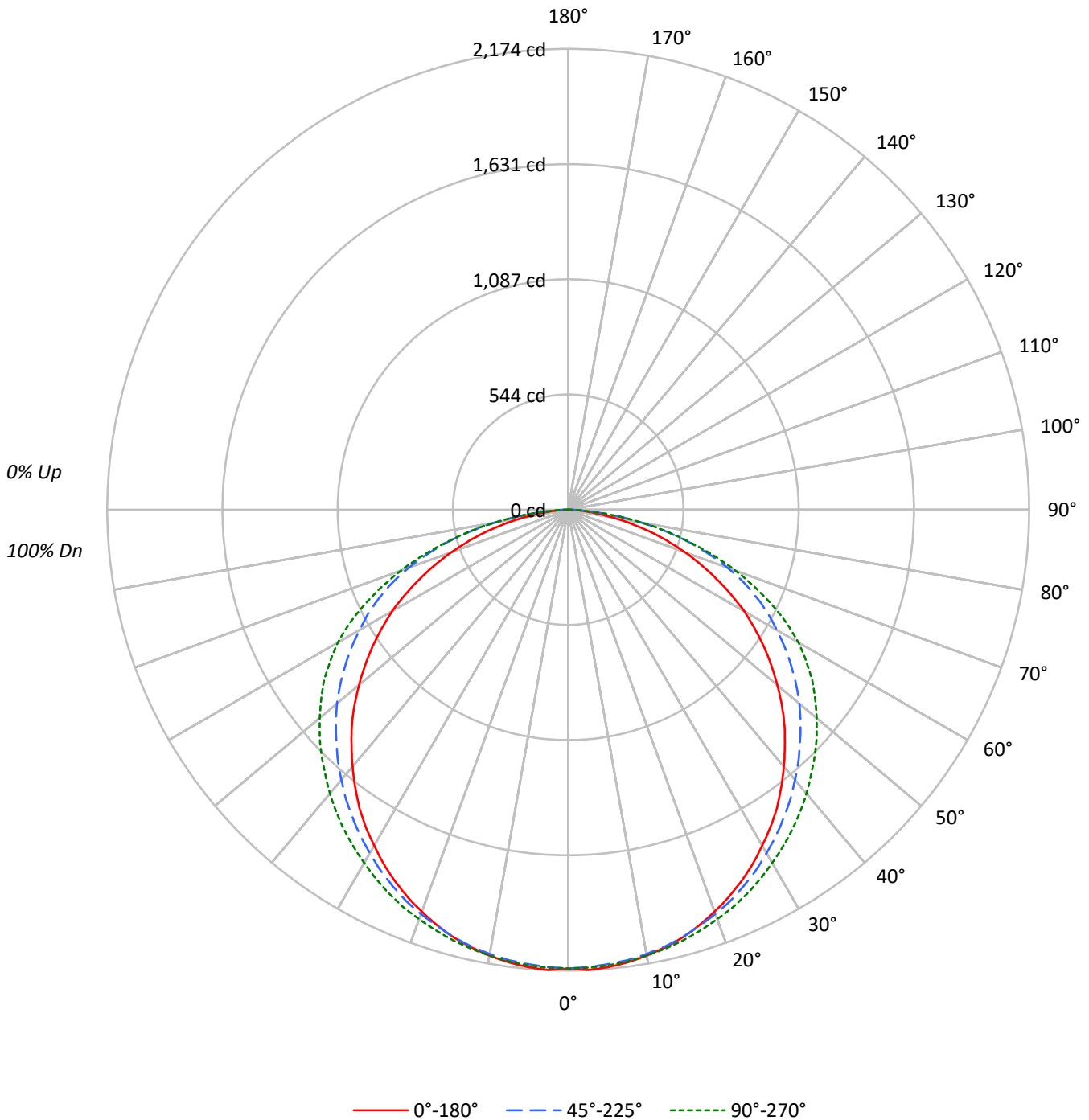
Input Watts (W): 65.05
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	94	105	101	97	93	96	93	90	93	90	87	89	87	85	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	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	52	79	67	59	52	65	57	51	62	56	51	60	54	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	68	55	45	39	67	54	45	39	52	44	38	50	43	38	49	42	38	35
7	63	49	40	34	62	49	40	34	47	39	34	46	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	41	34	30	28
9	55	41	33	27	54	41	33	27	40	32	27	38	32	27	37	31	27	25
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2912	2912	2912
5°	2925	2907	2915
10°	2918	2908	2918
15°	2910	2908	2929
20°	2889	2906	2943
25°	2870	2908	2966
30°	2843	2907	2989
35°	2820	2912	3026
40°	2779	2922	3071
45°	2746	2941	3129
50°	2694	2979	3201
55°	2643	3012	3296
60°	2581	3057	3378
65°	2456	3125	3376
70°	2303	3142	3303
75°	2060	3051	3090
80°	1653	2731	2742
85°	1167	1985	1868



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.9	3.0
10°-20°	589.7	8.7
20°-30°	903.6	13.3
30°-40°	1110.6	16.3
40°-50°	1191.3	17.5
50°-60°	1139.3	16.8
60°-70°	937.1	13.8
70°-80°	576.3	8.5
80°-90°	147.0	2.2
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°	1698.2	25.0
0°-40°	2808.9	41.3
0°-60°	5139.5	75.6
0°-90°	6800.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6800.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2164	2164	2164	2164	2164	
5°	2166	2157	2152	2149	2158	206
15°	2089	2081	2087	2090	2102	589
25°	1933	1933	1959	1980	1998	891
35°	1717	1727	1773	1818	1842	1073
45°	1443	1470	1546	1614	1644	1112
55°	1127	1181	1284	1370	1405	1007
65°	771	858	982	1041	1060	764
75°	396	514	587	598	594	419
85°	76	124	129	124	121	94
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2164.5	2164.5	2164.5	2164.5	2164.5
2.5°	2173.6	2163.0	2159.9	2155.4	2163.0
5°	2166.0	2156.9	2152.4	2149.4	2158.4
7.5°	2153.9	2144.8	2143.3	2140.3	2149.4
10°	2135.7	2128.2	2128.2	2126.7	2135.7
12.5°	2114.6	2105.5	2110.0	2111.5	2120.6
15°	2088.8	2081.3	2087.3	2090.4	2102.5
17.5°	2055.6	2049.5	2058.6	2067.7	2079.8
20°	2017.8	2016.2	2029.9	2042.0	2055.6
22.5°	1978.4	1978.4	1998.1	2011.7	2029.9
25°	1933.1	1933.1	1958.8	1979.9	1998.1
27.5°	1884.7	1887.7	1917.9	1943.6	1963.3
30°	1830.2	1839.3	1871.0	1902.8	1924.0
32.5°	1775.7	1783.3	1824.1	1865.0	1884.7
35°	1716.8	1727.3	1772.7	1818.1	1842.3
37.5°	1650.2	1665.3	1721.3	1771.2	1796.9
40°	1582.1	1601.8	1663.8	1721.3	1748.5
42.5°	1512.6	1539.8	1607.9	1666.8	1695.6
45°	1443.0	1470.2	1545.8	1613.9	1644.2
47.5°	1367.4	1400.6	1486.8	1556.4	1589.7
50°	1287.2	1326.5	1423.3	1495.9	1529.2
52.5°	1208.5	1253.9	1355.3	1436.9	1468.7
55°	1126.9	1181.3	1284.2	1370.4	1405.2
57.5°	1042.2	1104.2	1213.1	1300.8	1331.1
60°	959.0	1021.0	1135.9	1225.2	1255.4
62.5°	865.2	940.8	1063.3	1146.5	1163.2
65°	771.4	857.6	981.7	1040.6	1060.3
67.5°	679.1	772.9	896.9	939.3	951.4
70°	585.4	682.2	798.6	833.4	839.5
72.5°	490.1	599.0	697.3	717.0	720.0
75°	396.3	514.3	586.9	597.5	594.4
77.5°	304.0	420.5	471.9	476.5	478.0
80°	213.3	322.2	352.4	353.9	353.9
82.5°	137.6	223.9	239.0	236.0	239.0
85°	75.6	124.0	128.6	124.0	121.0
87.5°	24.2	36.3	39.3	37.8	37.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)