

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: P225638

Luminaire Tested: **24AC-LD5-68-UNV-L830-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: P225638
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-L830-CD1-U
Description: METALUX Accord 2X4 LED TROFFER
Light Source: (168)3000K CCT, 85 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

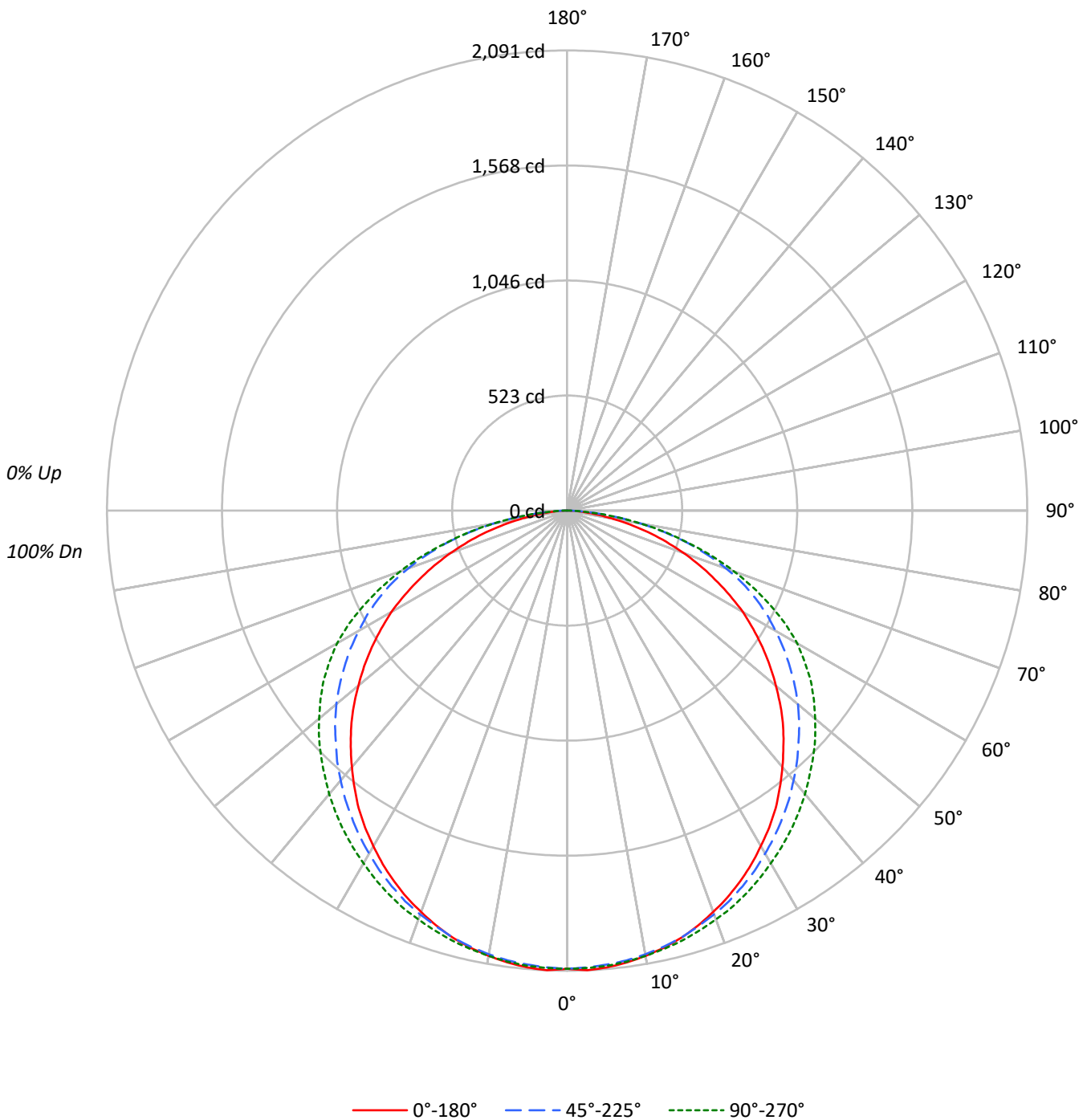
Lumens per Lamp: N/A
Luminaire Lumens: 6541.0 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.32 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 65.1
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°	2801	2801	2801
5°	2814	2796	2804
10°	2807	2797	2807
15°	2799	2797	2817
20°	2779	2796	2831
25°	2760	2797	2853
30°	2735	2796	2875
35°	2712	2801	2911
40°	2673	2811	2954
45°	2641	2829	3009
50°	2592	2866	3079
55°	2543	2898	3171
60°	2482	2940	3250
65°	2362	3006	3247
70°	2215	3022	3177
75°	1982	2935	2973
80°	1589	2627	2638
85°	1122	1910	1797



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.1	3.0
10°-20°	567.2	8.7
20°-30°	869.2	13.3
30°-40°	1068.3	16.3
40°-50°	1146.0	17.5
50°-60°	1095.9	16.8
60°-70°	901.4	13.8
70°-80°	554.4	8.5
80°-90°	141.4	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°	1633.6	25.0
0°-40°	2701.9	41.3
0°-60°	4943.8	75.6
0°-90°	6541.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6541.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2082	2082	2082	2082	2082	
5°	2084	2075	2070	2068	2076	198
15°	2009	2002	2008	2011	2022	567
25°	1859	1859	1884	1904	1922	857
35°	1651	1662	1705	1749	1772	1032
45°	1388	1414	1487	1552	1582	1069
55°	1084	1136	1235	1318	1352	968
65°	742	825	944	1001	1020	735
75°	381	495	564	575	572	403
85°	73	119	124	119	116	90
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2082.0	2082.0	2082.0	2082.0	2082.0
2.5°	2090.8	2080.6	2077.7	2073.3	2080.6
5°	2083.5	2074.8	2070.4	2067.5	2076.2
7.5°	2071.8	2063.1	2061.7	2058.8	2067.5
10°	2054.4	2047.1	2047.1	2045.7	2054.4
12.5°	2034.0	2025.3	2029.7	2031.1	2039.8
15°	2009.3	2002.0	2007.8	2010.7	2022.4
17.5°	1977.3	1971.5	1980.2	1988.9	2000.6
20°	1940.9	1939.4	1952.5	1964.2	1977.3
22.5°	1903.1	1903.1	1922.0	1935.1	1952.5
25°	1859.4	1859.4	1884.2	1904.5	1922.0
27.5°	1812.9	1815.8	1844.9	1869.6	1888.5
30°	1760.5	1769.2	1799.8	1830.3	1850.7
32.5°	1708.1	1715.4	1754.7	1794.0	1812.9
35°	1651.4	1661.6	1705.2	1748.9	1772.1
37.5°	1587.4	1601.9	1655.7	1703.7	1728.5
40°	1521.9	1540.8	1600.4	1655.7	1681.9
42.5°	1455.0	1481.1	1546.6	1603.4	1631.0
45°	1388.0	1414.2	1487.0	1552.4	1581.5
47.5°	1315.3	1347.3	1430.2	1497.1	1529.2
50°	1238.2	1276.0	1369.1	1438.9	1471.0
52.5°	1162.5	1206.2	1303.6	1382.2	1412.8
55°	1083.9	1136.3	1235.3	1318.2	1351.6
57.5°	1002.5	1062.1	1166.9	1251.3	1280.4
60°	922.4	982.1	1092.7	1178.5	1207.6
62.5°	832.2	905.0	1022.8	1102.9	1118.9
65°	742.0	825.0	944.3	1001.0	1019.9
67.5°	653.3	743.5	862.8	903.5	915.2
70°	563.1	656.2	768.2	801.7	807.5
72.5°	471.4	576.2	670.7	689.6	692.6
75°	381.2	494.7	564.5	574.7	571.8
77.5°	292.4	404.5	453.9	458.3	459.8
80°	205.1	309.9	339.0	340.5	340.5
82.5°	132.4	215.3	229.9	227.0	229.9
85°	72.7	119.3	123.7	119.3	116.4
87.5°	23.3	34.9	37.8	36.4	36.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)