

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: P225639

Luminaire Tested: **24AC-LD5-73-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: P225639
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-LD5-73-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: 7014.0 lumens
Efficiency: N/A
Efficacy: 98.8 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

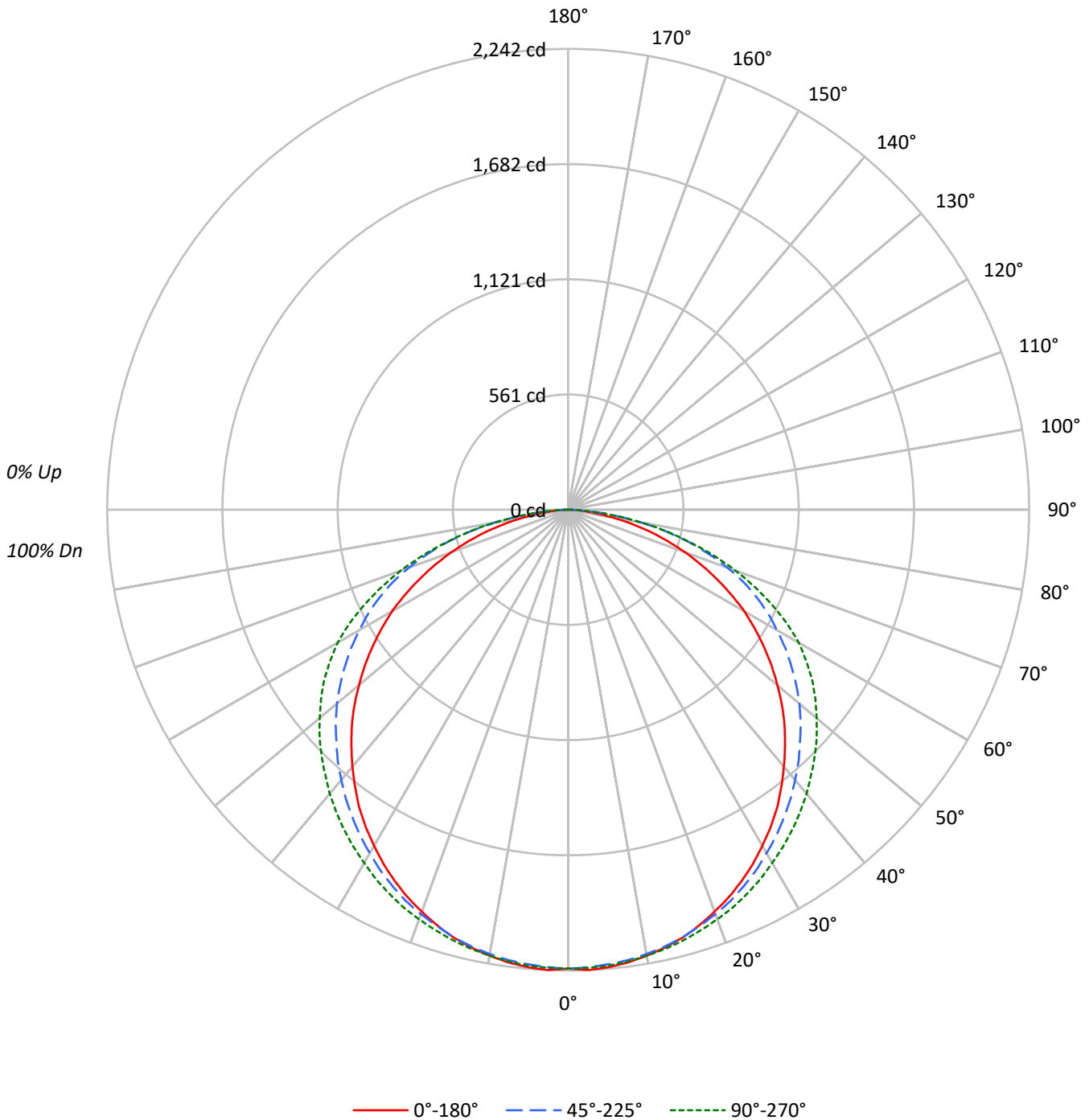
Input Watts (W): 71
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3004	3004	3004
5°	3018	2999	3007
10°	3010	2999	3010
15°	3001	2999	3021
20°	2980	2998	3036
25°	2960	2999	3060
30°	2933	2998	3083
35°	2909	3003	3121
40°	2866	3014	3168
45°	2832	3034	3227
50°	2779	3073	3302
55°	2727	3107	3400
60°	2662	3153	3485
65°	2533	3223	3482
70°	2375	3241	3406
75°	2125	3147	3187
80°	1705	2817	2829
85°	1204	2047	1927



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.4	3.0
10°-20°	608.2	8.7
20°-30°	932.1	13.3
30°-40°	1145.6	16.3
40°-50°	1228.8	17.5
50°-60°	1175.2	16.8
60°-70°	966.6	13.8
70°-80°	594.5	8.5
80°-90°	151.6	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°	1751.7	25.0
0°-40°	2897.3	41.3
0°-60°	5301.3	75.6
0°-90°	7014.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7014.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2233	2233	2233	2233	2233	
5°	2234	2225	2220	2217	2226	212
15°	2155	2147	2153	2156	2169	608
25°	1994	1994	2020	2042	2061	919
35°	1771	1782	1828	1875	1900	1106
45°	1488	1516	1594	1665	1696	1147
55°	1162	1218	1325	1414	1449	1038
65°	796	885	1012	1073	1094	788
75°	409	530	605	616	613	432
85°	78	128	133	128	125	97
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2232.6	2232.6	2232.6	2232.6	2232.6
2.5°	2242.0	2231.0	2227.9	2223.2	2231.0
5°	2234.2	2224.8	2220.1	2217.0	2226.4
7.5°	2221.7	2212.3	2210.8	2207.6	2217.0
10°	2202.9	2195.1	2195.1	2193.6	2202.9
12.5°	2181.1	2171.7	2176.4	2178.0	2187.3
15°	2154.6	2146.8	2153.0	2156.1	2168.6
17.5°	2120.3	2114.0	2123.4	2132.7	2145.2
20°	2081.3	2079.7	2093.7	2106.2	2120.3
22.5°	2040.7	2040.7	2061.0	2075.0	2093.7
25°	1993.9	1993.9	2020.4	2042.3	2061.0
27.5°	1944.0	1947.1	1978.3	2004.8	2025.1
30°	1887.8	1897.2	1929.9	1962.7	1984.5
32.5°	1831.6	1839.4	1881.6	1923.7	1944.0
35°	1770.8	1781.7	1828.5	1875.3	1900.3
37.5°	1702.1	1717.7	1775.5	1827.0	1853.5
40°	1631.9	1652.2	1716.2	1775.5	1803.5
42.5°	1560.2	1588.2	1658.5	1719.3	1748.9
45°	1488.4	1516.5	1594.5	1664.7	1695.9
47.5°	1410.4	1444.7	1533.6	1605.4	1639.7
50°	1327.7	1368.3	1468.1	1543.0	1577.3
52.5°	1246.6	1293.4	1397.9	1482.2	1514.9
55°	1162.3	1218.5	1324.6	1413.5	1449.4
57.5°	1075.0	1138.9	1251.3	1341.7	1372.9
60°	989.1	1053.1	1171.7	1263.7	1294.9
62.5°	892.4	970.4	1096.8	1182.6	1199.8
65°	795.7	884.6	1012.5	1073.4	1093.7
67.5°	700.5	797.2	925.2	968.9	981.3
70°	603.8	703.6	823.8	859.6	865.9
72.5°	505.5	617.8	719.2	739.5	742.6
75°	408.8	530.5	605.3	616.3	613.1
77.5°	313.6	433.7	486.8	491.5	493.0
80°	220.0	332.3	363.5	365.1	365.1
82.5°	142.0	230.9	246.5	243.4	246.5
85°	78.0	127.9	132.6	127.9	124.8
87.5°	25.0	37.4	40.6	39.0	39.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)