

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: P225648

Luminaire Tested: **24AC-LD5-73-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: P225648
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-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: 7292.0 lumens
Efficiency: N/A
Efficacy: 102.7 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

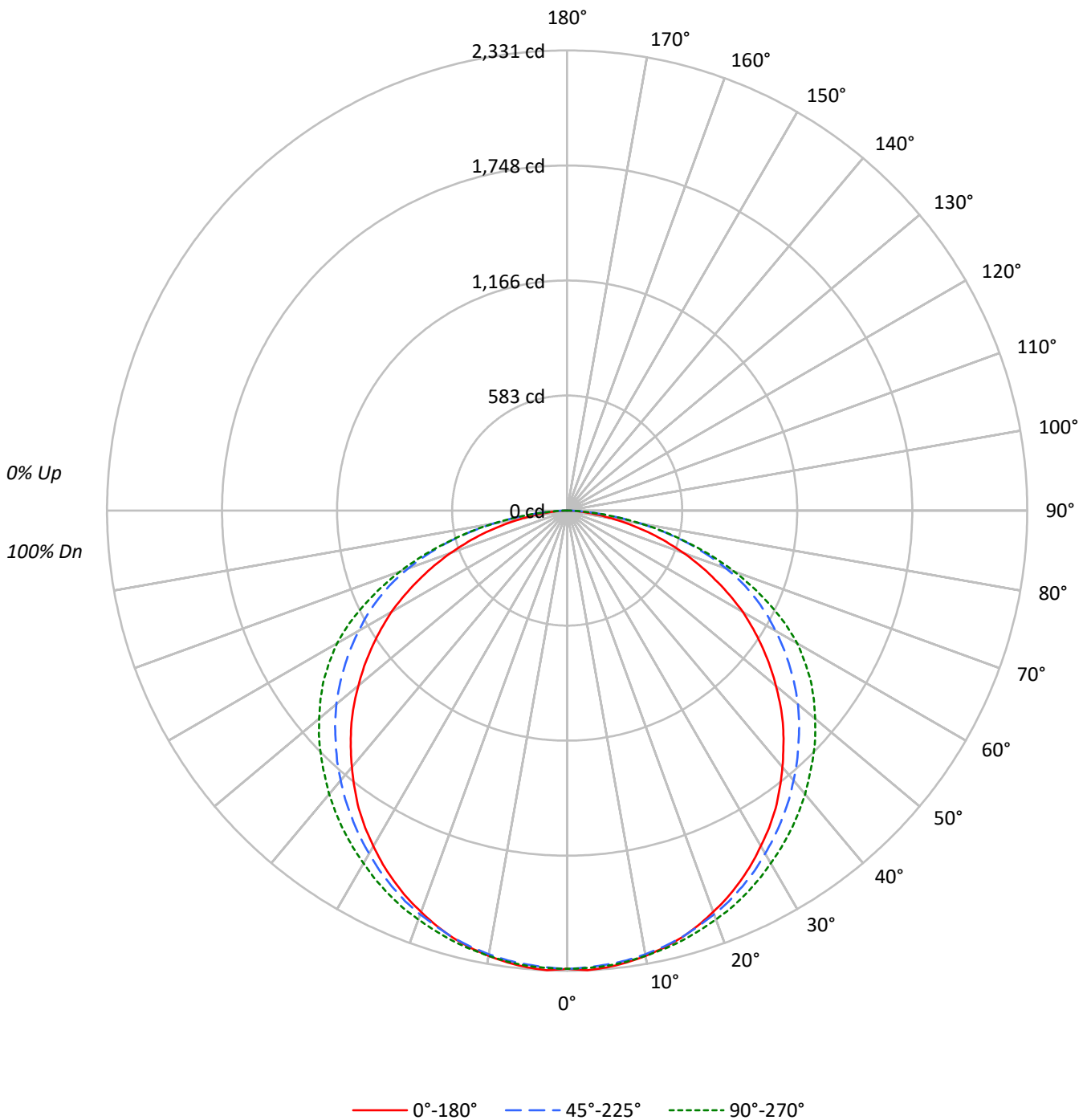
Input Watts (W): 71.02
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3123	3123	3123
5°	3137	3117	3126
10°	3129	3118	3129
15°	3120	3118	3141
20°	3098	3117	3156
25°	3077	3118	3181
30°	3049	3117	3205
35°	3024	3122	3245
40°	2980	3134	3293
45°	2944	3154	3355
50°	2889	3195	3432
55°	2835	3230	3535
60°	2767	3278	3623
65°	2634	3351	3620
70°	2469	3369	3541
75°	2209	3271	3314
80°	1772	2928	2941
85°	1252	2129	2004



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.8	3.0
10°-20°	632.3	8.7
20°-30°	969.0	13.3
30°-40°	1191.0	16.3
40°-50°	1277.6	17.5
50°-60°	1221.7	16.8
60°-70°	1004.9	13.8
70°-80°	618.0	8.5
80°-90°	157.6	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°	1821.1	25.0
0°-40°	3012.1	41.3
0°-60°	5511.4	75.6
0°-90°	7292.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7292.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2321	2321	2321	2321	2321	
5°	2323	2313	2308	2305	2315	221
15°	2240	2232	2238	2242	2255	632
25°	2073	2073	2100	2123	2143	955
35°	1841	1852	1901	1950	1976	1150
45°	1547	1577	1658	1731	1763	1192
55°	1208	1267	1377	1470	1507	1079
65°	827	920	1053	1116	1137	819
75°	425	552	629	641	637	449
85°	81	133	138	133	130	100
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2321.1	2321.1	2321.1	2321.1	2321.1
2.5°	2330.8	2319.5	2316.2	2311.3	2319.5
5°	2322.7	2313.0	2308.1	2304.9	2314.6
7.5°	2309.7	2300.0	2298.4	2295.1	2304.9
10°	2290.3	2282.2	2282.2	2280.5	2290.3
12.5°	2267.6	2257.8	2262.7	2264.3	2274.0
15°	2240.0	2231.9	2238.4	2241.6	2254.6
17.5°	2204.3	2197.8	2207.5	2217.3	2230.2
20°	2163.7	2162.1	2176.7	2189.7	2204.3
22.5°	2121.6	2121.6	2142.7	2157.3	2176.7
25°	2072.9	2072.9	2100.5	2123.2	2142.7
27.5°	2021.0	2024.3	2056.7	2084.3	2105.4
30°	1962.6	1972.4	2006.4	2040.5	2063.2
32.5°	1904.2	1912.3	1956.1	1999.9	2021.0
35°	1841.0	1852.3	1901.0	1949.6	1975.6
37.5°	1769.6	1785.8	1845.8	1899.4	1926.9
40°	1696.6	1717.7	1784.2	1845.8	1875.0
42.5°	1622.0	1651.2	1724.2	1787.4	1818.3
45°	1547.4	1576.6	1657.7	1730.7	1763.1
47.5°	1466.3	1502.0	1594.4	1669.0	1704.7
50°	1380.3	1422.5	1526.3	1604.2	1639.8
52.5°	1296.0	1344.6	1453.3	1540.9	1575.0
55°	1208.4	1266.8	1377.1	1469.5	1506.8
57.5°	1117.6	1184.1	1300.8	1394.9	1427.4
60°	1028.3	1094.8	1218.1	1313.8	1346.3
62.5°	927.8	1008.9	1140.3	1229.5	1247.3
65°	827.2	919.7	1052.7	1115.9	1137.0
67.5°	728.3	828.8	961.8	1007.3	1020.2
70°	627.7	731.5	856.4	893.7	900.2
72.5°	525.5	642.3	747.7	768.8	772.1
75°	425.0	551.5	629.3	640.7	637.4
77.5°	326.0	450.9	506.1	510.9	512.6
80°	228.7	345.5	377.9	379.5	379.5
82.5°	147.6	240.1	256.3	253.0	256.3
85°	81.1	133.0	137.9	133.0	129.8
87.5°	26.0	38.9	42.2	40.5	40.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)