

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: P229363

Luminaire Tested: **24ALNG-LD5-55-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229363
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36066)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24ALNG-LD5-55-UNV-L830-CD1-U
Description: METALUX 2X4 ARCLINE LED TROFFER WITH CURVED LENS
Light Source: (252)3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5342.0 lumens
Efficiency: N/A
Efficacy: 129.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

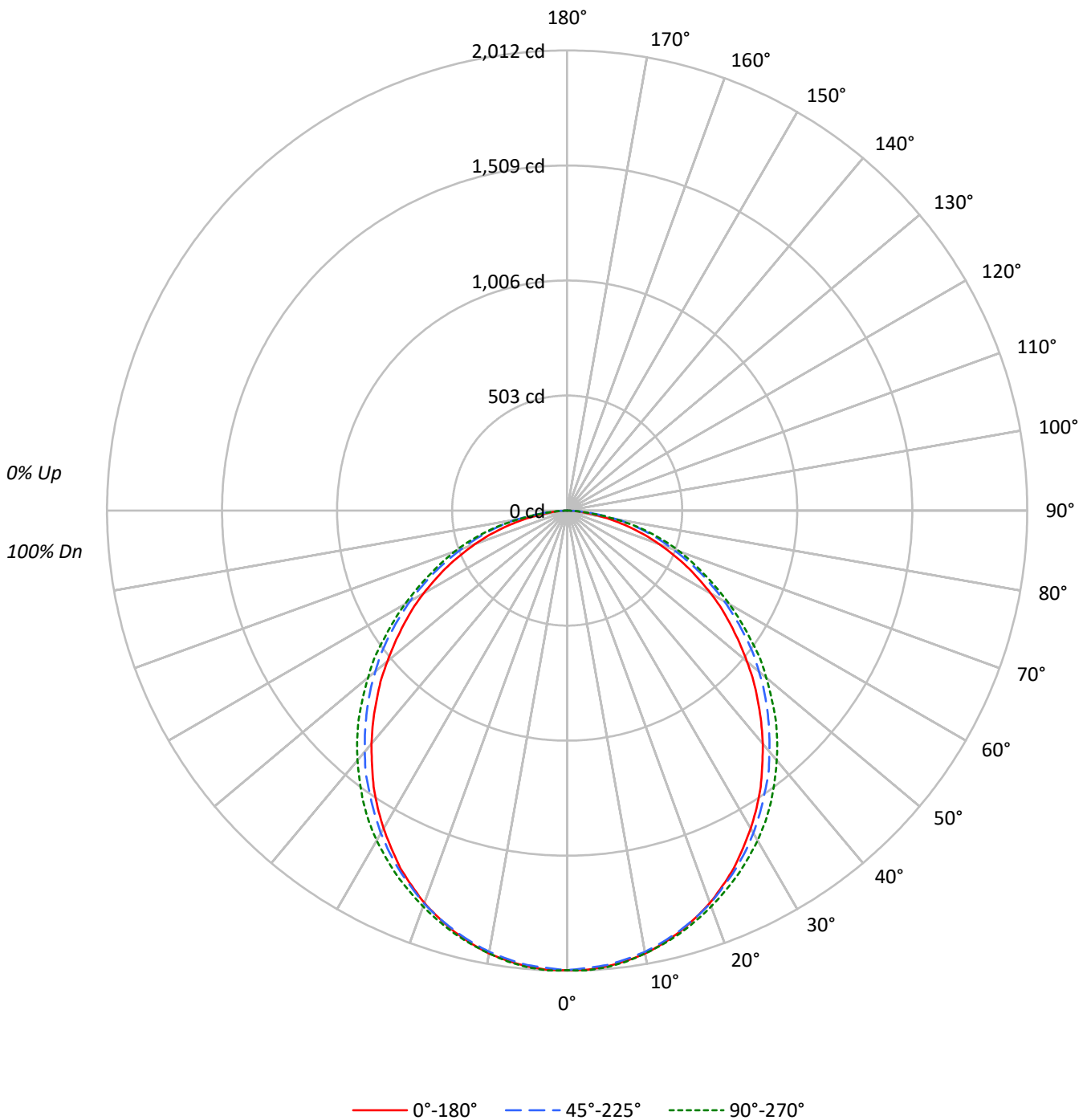
Input Watts (W): 41.11
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	63	57	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	71	57	48	42	69	56	48	42	55	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3078	3078	3078
5°	3076	3067	3080
10°	3059	3047	3059
15°	3022	3015	3034
20°	2976	2981	3003
25°	2916	2933	2976
30°	2839	2881	2946
35°	2758	2816	2907
40°	2662	2751	2851
45°	2556	2682	2794
50°	2445	2607	2706
55°	2333	2527	2610
60°	2223	2431	2508
65°	2088	2324	2404
70°	1917	2201	2341
75°	1682	2112	2226
80°	1358	1972	1868
85°	963	1300	1040



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.7	3.6
10°-20°	537.7	10.1
20°-30°	801.2	15.0
30°-40°	945.2	17.7
40°-50°	954.2	17.9
50°-60°	838.1	15.7
60°-70°	625.0	11.7
70°-80°	364.1	6.8
80°-90°	86.9	1.6
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°	1528.5	28.6
0°-40°	2473.7	46.3
0°-60°	4266.0	79.9
0°-90°	5342.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5342.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2010	2010	2010	2010	2010	
5°	2001	1999	1995	2001	2004	190
15°	1906	1904	1901	1910	1913	537
25°	1725	1727	1736	1755	1761	793
35°	1475	1484	1506	1542	1555	921
45°	1180	1198	1238	1275	1290	911
55°	874	900	946	976	977	783
65°	576	600	641	660	663	569
75°	284	318	357	375	376	303
85°	55	80	74	62	59	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2009.5	2009.5	2009.5	2009.5	2009.5
2.5°	2009.5	2008.0	2002.1	2008.0	2012.5
5°	2000.6	1999.1	1994.7	2000.6	2003.6
7.5°	1985.8	1984.3	1978.4	1987.3	1988.8
10°	1966.6	1963.6	1959.2	1965.1	1966.6
12.5°	1938.4	1936.9	1932.5	1939.9	1941.4
15°	1905.8	1904.4	1901.4	1910.3	1913.3
17.5°	1867.3	1868.8	1867.3	1877.7	1879.2
20°	1825.9	1827.4	1828.8	1840.7	1842.2
22.5°	1775.5	1777.0	1781.5	1797.7	1802.2
25°	1725.2	1726.7	1735.6	1754.8	1760.7
27.5°	1664.5	1670.4	1683.7	1707.4	1713.3
30°	1605.2	1611.2	1628.9	1657.1	1666.0
32.5°	1541.6	1547.5	1568.2	1599.3	1612.6
35°	1474.9	1483.8	1506.0	1541.6	1554.9
37.5°	1400.9	1417.2	1446.8	1480.8	1489.7
40°	1331.3	1343.1	1375.7	1417.2	1426.1
42.5°	1255.8	1272.0	1307.6	1349.1	1359.4
45°	1180.2	1198.0	1238.0	1275.0	1289.8
47.5°	1106.2	1125.4	1168.4	1206.9	1211.3
50°	1026.2	1049.9	1094.3	1131.4	1135.8
52.5°	949.2	977.4	1024.7	1054.4	1064.7
55°	873.7	900.4	946.3	975.9	977.4
57.5°	802.6	824.8	869.3	894.4	898.9
60°	725.6	747.8	793.7	814.5	818.9
62.5°	648.6	672.3	716.7	737.5	740.4
65°	576.0	599.7	641.2	660.5	663.4
67.5°	499.0	528.7	564.2	589.4	592.3
70°	428.0	457.6	491.6	516.8	522.7
72.5°	356.9	390.9	425.0	444.3	451.7
75°	284.3	318.4	356.9	374.7	376.1
77.5°	217.7	250.3	290.2	300.6	296.2
80°	154.0	189.5	223.6	222.1	211.8
82.5°	97.7	131.8	145.1	136.2	130.3
85°	54.8	80.0	74.0	62.2	59.2
87.5°	22.2	23.7	17.8	11.8	10.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)