

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: P229426

Luminaire Tested: **24ALNG-LD5-55-UNV-L830-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229426
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36086)
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-SVPD1-U
Description: METALUX 2X4 ARCLINE LED TROFFER WITH CURVED LENS AND SENSOR
Light Source: (252)3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5197.0 lumens
Efficiency: N/A
Efficacy: 126.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

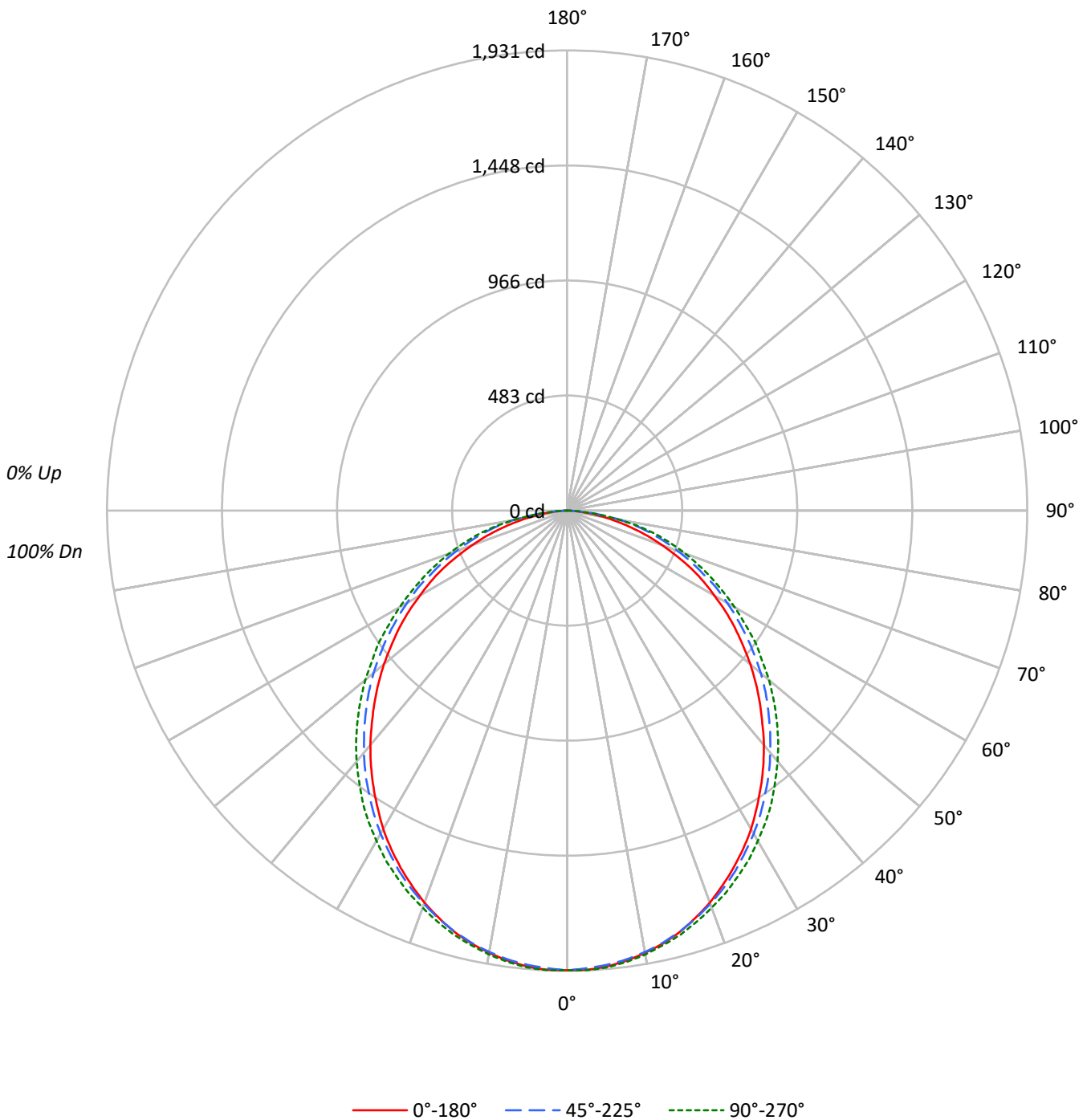
Input Watts (W): 41.11
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	94	98	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	75	82	78	74	79	75	72	70
3	90	80	72	65	88	78	71	64	75	69	63	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	50
5	76	63	54	48	74	62	54	47	60	53	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2955	2955	2955
5°	2953	2942	2958
10°	2931	2925	2941
15°	2901	2898	2920
20°	2854	2862	2890
25°	2794	2820	2863
30°	2730	2769	2830
35°	2649	2710	2796
40°	2569	2651	2747
45°	2479	2586	2694
50°	2392	2527	2633
55°	2296	2452	2576
60°	2183	2377	2487
65°	2080	2285	2421
70°	1903	2202	2355
75°	1663	2129	2291
80°	1390	1994	1979
85°	963	1415	1265



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.1	3.5
10°-20°	516.7	9.9
20°-30°	770.2	14.8
30°-40°	909.2	17.5
40°-50°	921.7	17.7
50°-60°	817.4	15.7
60°-70°	620.0	11.9
70°-80°	367.2	7.1
80°-90°	92.6	1.8
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°	1468.9	28.3
0°-40°	2378.2	45.8
0°-60°	4117.2	79.2
0°-90°	5197.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5197.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1929	1929	1929	1929	1929	
5°	1920	1919	1914	1920	1924	182
15°	1830	1830	1828	1836	1842	515
25°	1653	1657	1669	1689	1694	761
35°	1417	1429	1449	1482	1496	886
45°	1144	1160	1194	1230	1244	883
55°	860	877	918	952	964	768
65°	574	591	630	658	668	565
75°	281	319	360	379	387	301
85°	55	82	80	74	72	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1929.0	1929.0	1929.0	1929.0	1929.0
2.5°	1929.0	1927.3	1922.2	1929.0	1930.7
5°	1920.4	1918.7	1913.6	1920.4	1923.9
7.5°	1905.0	1905.0	1899.9	1906.7	1910.2
10°	1884.5	1884.5	1881.0	1887.9	1891.3
12.5°	1860.5	1860.5	1857.1	1865.6	1867.3
15°	1829.7	1829.7	1827.9	1836.5	1841.6
17.5°	1792.0	1792.0	1795.4	1807.4	1809.1
20°	1750.8	1752.6	1756.0	1771.4	1773.1
22.5°	1702.9	1708.0	1714.9	1732.0	1737.1
25°	1653.2	1656.6	1668.6	1689.2	1694.3
27.5°	1600.1	1605.2	1617.2	1642.9	1651.5
30°	1543.6	1547.0	1565.8	1591.5	1600.1
32.5°	1480.2	1488.7	1509.3	1540.1	1550.4
35°	1416.8	1428.8	1449.3	1481.9	1495.6
37.5°	1351.7	1362.0	1391.1	1423.6	1433.9
40°	1284.9	1295.1	1326.0	1362.0	1374.0
42.5°	1212.9	1228.3	1260.9	1296.9	1310.6
45°	1144.4	1159.8	1194.1	1230.0	1243.8
47.5°	1074.1	1089.6	1129.0	1159.8	1175.2
50°	1003.9	1022.8	1060.4	1093.0	1105.0
52.5°	930.2	949.1	988.5	1021.0	1029.6
55°	860.0	877.1	918.3	952.5	964.5
57.5°	788.1	806.9	846.3	880.6	884.0
60°	712.7	733.2	776.1	803.5	812.0
62.5°	645.9	663.0	709.2	731.5	736.7
65°	573.9	591.0	630.4	657.9	668.1
67.5°	496.8	520.8	561.9	589.3	596.2
70°	424.9	454.0	491.7	520.8	525.9
72.5°	352.9	383.7	426.6	450.6	455.7
75°	281.0	318.6	359.8	378.6	387.2
77.5°	217.6	253.5	294.7	311.8	310.1
80°	157.6	193.6	226.1	226.1	224.4
82.5°	101.1	137.1	154.2	149.0	145.6
85°	54.8	82.2	80.5	73.7	72.0
87.5°	22.3	27.4	20.6	15.4	12.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)