

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: P229446

Luminaire Tested: **24ALNG-LD5-55-UNV-L840-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229446
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-L840-CD1-SVPD1-U
Description: METALUX 2X4 ARCLINE LED TROFFER WITH CURVED LENS AND SENSOR
Light Source: (252)4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5413.0 lumens
Efficiency: N/A
Efficacy: 131.7 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

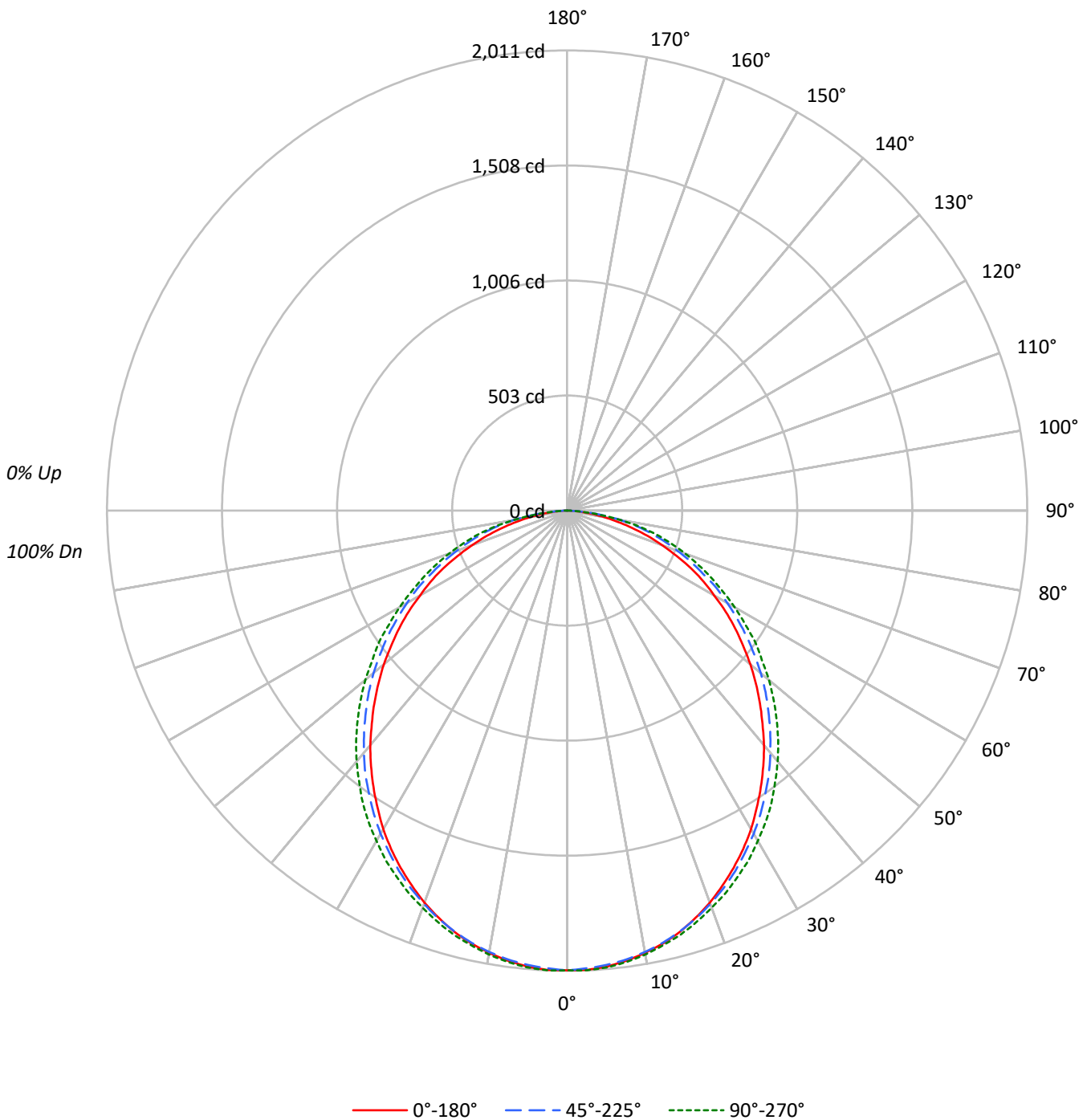
Input Watts (W): 41.11
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3077	3077	3077
5°	3075	3064	3081
10°	3053	3047	3064
15°	3022	3019	3042
20°	2972	2981	3010
25°	2910	2937	2982
30°	2843	2884	2947
35°	2759	2823	2913
40°	2676	2761	2861
45°	2582	2694	2806
50°	2491	2632	2742
55°	2392	2554	2683
60°	2274	2476	2591
65°	2167	2380	2522
70°	1982	2293	2453
75°	1732	2217	2387
80°	1448	2077	2062
85°	1003	1474	1316



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.7	3.5
10°-20°	538.1	9.9
20°-30°	802.2	14.8
30°-40°	947.0	17.5
40°-50°	960.0	17.7
50°-60°	851.4	15.7
60°-70°	645.7	11.9
70°-80°	382.5	7.1
80°-90°	96.4	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°	1530.0	28.3
0°-40°	2477.0	45.8
0°-60°	4288.4	79.2
0°-90°	5413.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5413.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2009	2009	2009	2009	2009	
5°	2000	1998	1993	2000	2004	190
15°	1906	1906	1904	1913	1918	537
25°	1722	1726	1738	1759	1765	793
35°	1476	1488	1510	1544	1558	923
45°	1192	1208	1244	1281	1295	920
55°	896	914	956	992	1005	800
65°	598	616	657	685	696	589
75°	293	332	375	394	403	314
85°	57	86	84	77	75	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2009.2	2009.2	2009.2	2009.2	2009.2
2.5°	2009.2	2007.4	2002.1	2009.2	2011.0
5°	2000.3	1998.5	1993.1	2000.3	2003.8
7.5°	1984.2	1984.2	1978.9	1986.0	1989.6
10°	1962.8	1962.8	1959.2	1966.4	1969.9
12.5°	1937.8	1937.8	1934.2	1943.2	1945.0
15°	1905.7	1905.7	1903.9	1912.8	1918.2
17.5°	1866.4	1866.4	1870.0	1882.5	1884.3
20°	1823.6	1825.4	1829.0	1845.0	1846.8
22.5°	1773.7	1779.0	1786.1	1804.0	1809.3
25°	1721.9	1725.5	1738.0	1759.4	1764.7
27.5°	1666.6	1671.9	1684.4	1711.2	1720.1
30°	1607.7	1611.3	1630.9	1657.7	1666.6
32.5°	1541.7	1550.6	1572.0	1604.1	1614.8
35°	1475.7	1488.2	1509.6	1543.5	1557.7
37.5°	1407.9	1418.6	1448.9	1482.8	1493.5
40°	1338.3	1349.0	1381.1	1418.6	1431.1
42.5°	1263.3	1279.4	1313.3	1350.8	1365.0
45°	1192.0	1208.0	1243.7	1281.2	1295.4
47.5°	1118.8	1134.9	1175.9	1208.0	1224.1
50°	1045.6	1065.3	1104.5	1138.4	1150.9
52.5°	968.9	988.5	1029.6	1063.5	1072.4
55°	895.7	913.6	956.4	992.1	1004.6
57.5°	820.8	840.4	881.5	917.2	920.7
60°	742.3	763.7	808.3	836.9	845.8
62.5°	672.7	690.5	738.7	761.9	767.3
65°	597.8	615.6	656.6	685.2	695.9
67.5°	517.5	542.4	585.3	613.8	621.0
70°	442.5	472.9	512.1	542.4	547.8
72.5°	367.6	399.7	444.3	469.3	474.6
75°	292.6	331.9	374.7	394.3	403.3
77.5°	226.6	264.1	306.9	324.8	323.0
80°	164.2	201.6	235.5	235.5	233.8
82.5°	105.3	142.7	160.6	155.2	151.7
85°	57.1	85.6	83.9	76.7	74.9
87.5°	23.2	28.5	21.4	16.1	12.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)