

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: P192419

Luminaire Tested: **4WSL-LD2-55-UNV-L840-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P192419
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P28104)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4WSL-LD2-55-UNV-L840-CD1-U
Description: 4FT Linear Wavestream System, L840
Light Source: (238) 4000K CCT, 80 CRI LEDS
EL236N0119D840
Ballast/Driver: OSRAM
OT50W

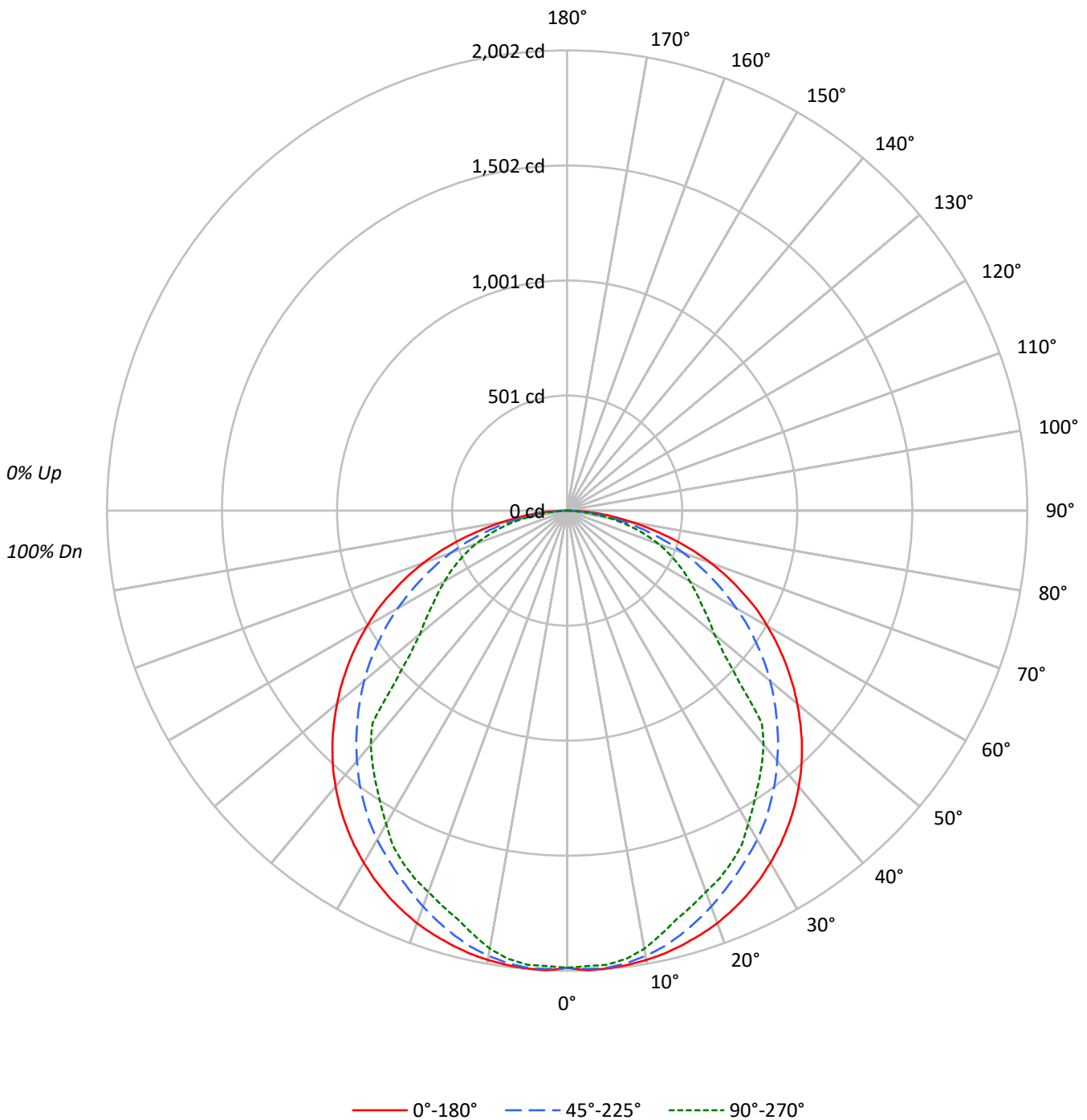
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5541.0 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.18 / 1.35
Luminous Opening: Rectangular (W 0.5' x L: 3.8' x H: 0')
CIE Type: Direct

Input Watts (W): 49.9
Input Voltage (V): NR
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	97	94	91	93	91	88	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38
7	65	51	43	36	63	51	42	36	49	42	36	48	41	36	46	40	35	33
8	60	47	38	33	59	46	38	32	45	37	32	44	37	32	42	36	32	30
9	57	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11268	11268	11268
5°	11373	11353	11279
10°	11421	11315	11136
15°	11461	11203	10795
20°	11516	11051	10643
25°	11550	10908	10565
30°	11572	10817	10301
35°	11588	10687	10028
40°	11591	10520	9829
45°	11573	10339	8504
50°	11519	10162	7367
55°	11461	9922	7061
60°	11403	9638	6978
65°	11255	9288	6979
70°	11022	8926	6983
75°	10312	8226	6781
80°	9210	7115	6039
85°	8463	5480	4407



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.9	3.4
10°-20°	536.2	9.7
20°-30°	808.3	14.6
30°-40°	970.5	17.5
40°-50°	988.4	17.8
50°-60°	867.5	15.7
60°-70°	674.8	12.2
70°-80°	401.3	7.2
80°-90°	105.0	1.9
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°	1533.5	27.7
0°-40°	2504.0	45.2
0°-60°	4359.9	78.7
0°-90°	5541.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5541.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1989	1989	1989	1989	1989	
5°	2000	1982	1996	1989	1983	190
15°	1954	1927	1910	1862	1840	552
25°	1848	1806	1745	1699	1690	852
35°	1676	1622	1545	1472	1450	1049
45°	1444	1397	1290	1192	1061	1114
55°	1160	1126	1005	805	715	1038
65°	840	807	693	546	521	832
75°	471	447	376	304	310	498
85°	130	116	84	68	68	143
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1988.9	1988.9	1988.9	1988.9	1988.9
2.5°	2001.8	1981.6	1996.3	1992.6	1983.4
5°	1999.9	1981.6	1996.3	1988.9	1983.4
7.5°	1994.4	1976.1	1985.3	1974.3	1966.9
10°	1985.3	1965.1	1966.9	1948.6	1935.8
12.5°	1972.4	1948.6	1943.1	1906.4	1888.1
15°	1954.1	1926.6	1910.1	1862.5	1840.5
17.5°	1933.9	1902.8	1873.5	1820.3	1803.8
20°	1910.1	1873.5	1833.1	1778.1	1765.3
22.5°	1880.8	1842.3	1789.1	1739.6	1732.3
25°	1847.8	1805.6	1745.1	1699.3	1690.1
27.5°	1811.1	1761.6	1699.3	1653.5	1642.5
30°	1769.0	1717.6	1653.5	1600.3	1574.7
32.5°	1725.0	1671.8	1602.2	1534.3	1510.5
35°	1675.5	1622.3	1545.3	1472.0	1450.0
37.5°	1624.1	1569.2	1486.7	1409.7	1391.3
40°	1567.3	1514.2	1422.5	1347.3	1329.0
42.5°	1508.7	1457.3	1358.3	1283.2	1253.9
45°	1444.5	1396.8	1290.5	1191.5	1061.4
47.5°	1376.7	1332.7	1222.7	1076.0	925.7
50°	1307.0	1266.7	1153.0	973.4	835.9
52.5°	1235.5	1198.9	1081.5	883.6	773.6
55°	1160.4	1125.5	1004.6	804.7	714.9
57.5°	1085.2	1050.4	931.2	733.2	665.4
60°	1006.4	973.4	850.6	667.3	615.9
62.5°	929.4	892.7	771.7	606.8	570.1
65°	839.6	806.6	692.9	546.3	520.6
67.5°	755.2	720.4	615.9	487.6	472.9
70°	665.4	630.6	538.9	427.1	421.6
72.5°	570.1	542.6	458.3	368.5	364.8
75°	471.1	447.3	375.8	304.3	309.8
77.5°	374.0	359.3	297.0	243.8	247.5
80°	282.3	271.3	218.1	181.5	185.1
82.5°	201.6	192.5	148.5	121.0	121.0
85°	130.2	115.5	84.3	67.8	67.8
87.5°	51.3	42.2	25.7	7.3	3.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)