

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: P197355

Luminaire Tested: **8WSL-LD2-60-UNV-L840-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P197355
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: 8WSL-LD2-60-UNV-L840-CD1-U
Description: 8FT. Linear Wavestream System, L840
Light Source: (476) 4000K CCT, 80 CRI LEDS
EL236N0119D840
Ballast/Driver: OSRAM
OT50W

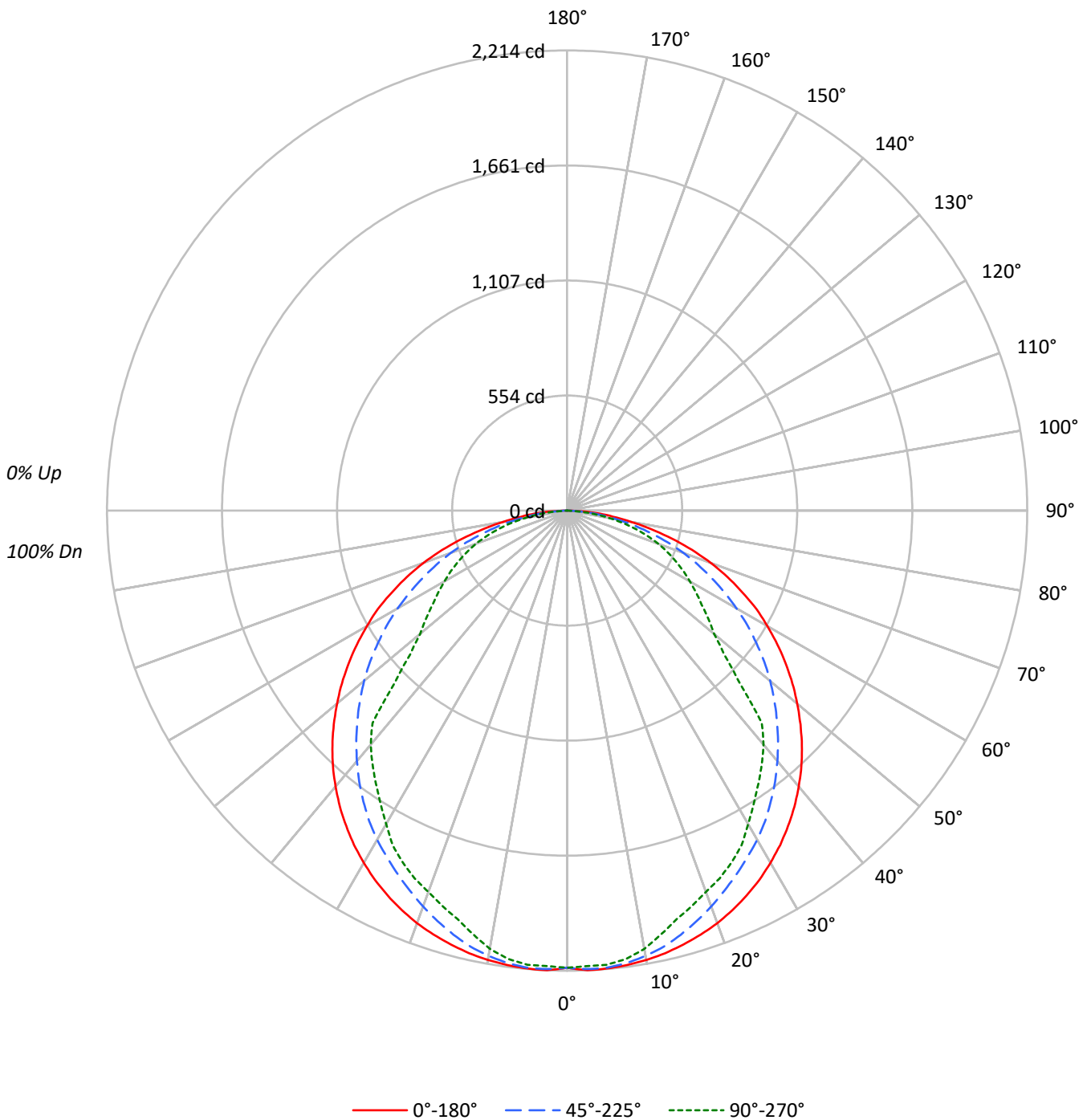
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6128.0 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.18 / 1.35
Luminous Opening: Rectangular (W 0.5' x L: 7.6' x H: 0')
CIE Type: Direct

Input Watts (W): 53.5
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°	6231	6231	6231
5°	6289	6278	6237
10°	6315	6257	6158
15°	6337	6195	5969
20°	6368	6111	5885
25°	6387	6032	5842
30°	6399	5981	5696
35°	6408	5910	5545
40°	6410	5817	5435
45°	6399	5717	4702
50°	6370	5619	4074
55°	6338	5487	3905
60°	6305	5329	3859
65°	6223	5136	3859
70°	6095	4936	3862
75°	5702	4548	3750
80°	5093	3936	3341
85°	4677	3032	2438



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.0	3.4
10°-20°	593.0	9.7
20°-30°	894.0	14.6
30°-40°	1073.3	17.5
40°-50°	1093.1	17.8
50°-60°	959.4	15.7
60°-70°	746.2	12.2
70°-80°	443.8	7.2
80°-90°	116.2	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°	1695.9	27.7
0°-40°	2769.3	45.2
0°-60°	4821.8	78.7
0°-90°	6128.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6128.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2200	2200	2200	2200	2200	
5°	2212	2192	2208	2200	2194	211
15°	2161	2131	2112	2060	2035	611
25°	2044	1997	1930	1879	1869	942
35°	1853	1794	1709	1628	1604	1160
45°	1598	1545	1427	1318	1174	1232
55°	1283	1245	1111	890	791	1148
65°	928	892	766	604	576	920
75°	521	495	416	336	343	551
85°	144	128	93	75	75	158
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2199.6	2199.6	2199.6	2199.6	2199.6
2.5°	2213.8	2191.5	2207.8	2203.7	2193.6
5°	2211.8	2191.5	2207.8	2199.6	2193.6
7.5°	2205.7	2185.5	2195.6	2183.4	2175.3
10°	2195.6	2173.3	2175.3	2155.0	2140.9
12.5°	2181.4	2155.0	2149.0	2108.4	2088.1
15°	2161.1	2130.7	2112.5	2059.8	2035.4
17.5°	2138.8	2104.4	2071.9	2013.1	1994.9
20°	2112.5	2071.9	2027.3	1966.5	1952.3
22.5°	2080.0	2037.5	1978.7	1923.9	1915.8
25°	2043.5	1996.9	1930.0	1879.3	1869.2
27.5°	2003.0	1948.3	1879.3	1828.6	1816.5
30°	1956.4	1899.6	1828.6	1769.9	1741.5
32.5°	1907.7	1848.9	1771.9	1696.9	1670.5
35°	1853.0	1794.2	1709.0	1627.9	1603.6
37.5°	1796.2	1735.4	1644.2	1559.0	1538.7
40°	1733.4	1674.6	1573.2	1490.1	1469.8
42.5°	1668.5	1611.7	1502.2	1419.1	1386.7
45°	1597.5	1544.8	1427.2	1317.8	1173.8
47.5°	1522.5	1473.9	1352.2	1190.0	1023.8
50°	1445.5	1400.9	1275.2	1076.5	924.5
52.5°	1366.4	1325.9	1196.1	977.2	855.5
55°	1283.3	1244.8	1111.0	890.0	790.7
57.5°	1200.2	1161.7	1029.9	810.9	735.9
60°	1113.0	1076.5	940.7	737.9	681.2
62.5°	1027.9	987.3	853.5	671.0	630.5
65°	928.5	892.0	766.3	604.1	575.8
67.5°	835.3	796.7	681.2	539.3	523.0
70°	735.9	697.4	596.0	472.4	466.3
72.5°	630.5	600.1	506.8	407.5	403.4
75°	521.0	494.7	415.6	336.5	342.6
77.5°	413.6	397.4	328.4	269.6	273.7
80°	312.2	300.0	241.3	200.7	204.8
82.5°	223.0	212.9	164.2	133.8	133.8
85°	143.9	127.7	93.3	75.0	75.0
87.5°	56.8	46.6	28.4	8.1	4.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)