

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: P192425

Luminaire Tested: **4WSL-LD2-65-UNV-L830-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P192425
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-LD2-65-UNV-L830-CD1-U
Description: 4FT Linear Wavestream System, L830
Light Source: (238) 3000K CCT, 80 CRI LEDS
EL236N0119D830
Ballast/Driver: OSRAM
OT85W1202772A0DIML

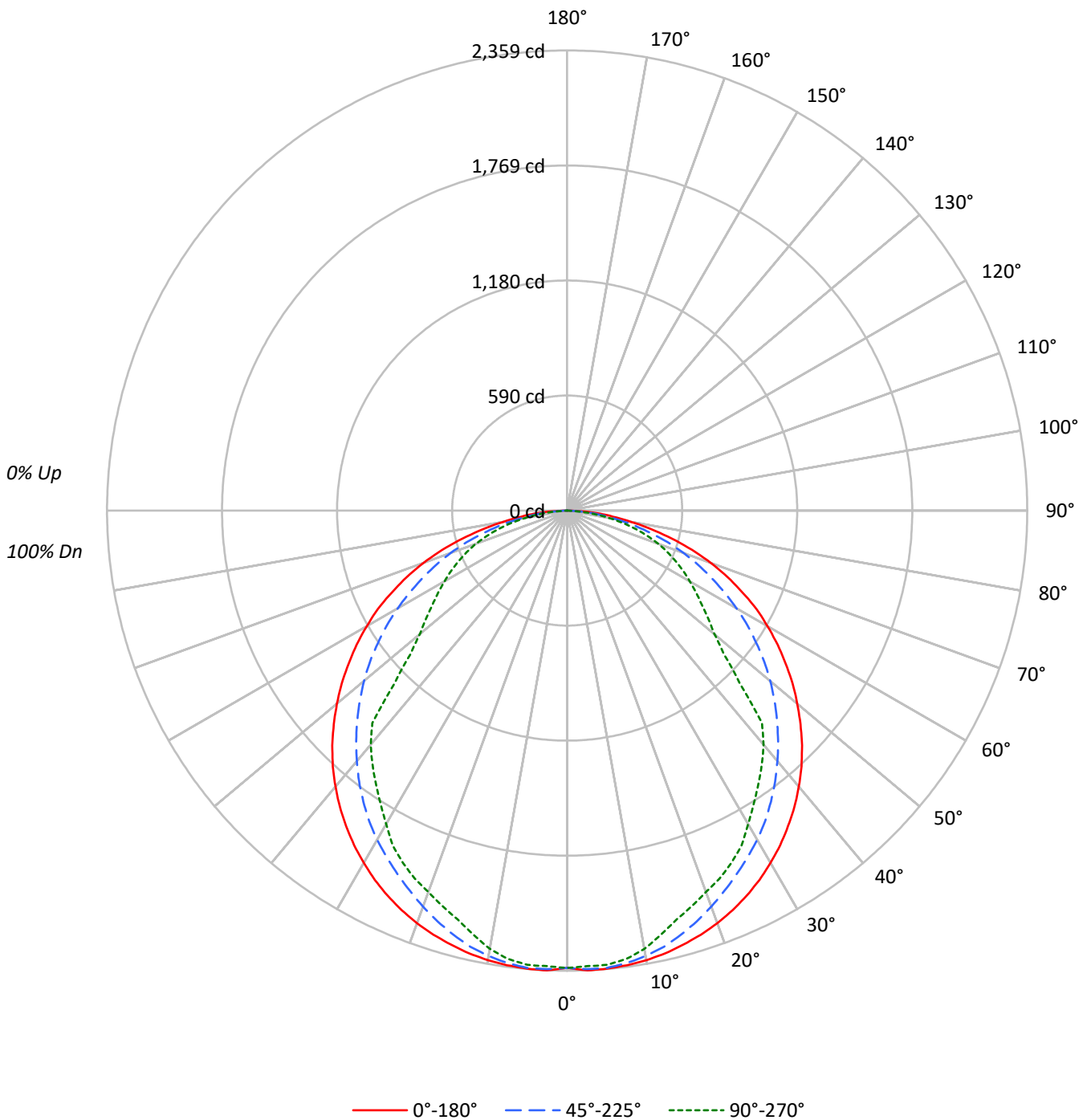
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6531.0 lumens
Efficiency: N/A
Efficacy: 105.5 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): 61.9
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°	13281	13281	13281
5°	13406	13381	13295
10°	13461	13337	13125
15°	13508	13205	12723
20°	13573	13026	12544
25°	13614	12857	12452
30°	13639	12749	12141
35°	13658	12597	11820
40°	13662	12400	11585
45°	13641	12187	10023
50°	13577	11978	8684
55°	13509	11694	8323
60°	13440	11359	8226
65°	13266	10948	8225
70°	12991	10521	8231
75°	12155	9695	7992
80°	10854	8388	7119
85°	9971	6461	5194



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.7	3.4
10°-20°	632.0	9.7
20°-30°	952.7	14.6
30°-40°	1143.9	17.5
40°-50°	1165.0	17.8
50°-60°	1022.4	15.7
60°-70°	795.3	12.2
70°-80°	473.0	7.2
80°-90°	123.8	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°	1807.5	27.7
0°-40°	2951.4	45.2
0°-60°	5138.8	78.7
0°-90°	6531.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6531.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2344	2344	2344	2344	2344	
5°	2357	2336	2353	2344	2338	224
15°	2303	2271	2251	2195	2169	651
25°	2178	2128	2057	2003	1992	1004
35°	1975	1912	1821	1735	1709	1236
45°	1703	1646	1521	1404	1251	1313
55°	1368	1327	1184	948	843	1223
65°	990	951	817	644	614	980
75°	555	527	443	359	365	587
85°	153	136	99	80	80	168
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2344.3	2344.3	2344.3	2344.3	2344.3
2.5°	2359.4	2335.7	2352.9	2348.6	2337.8
5°	2357.3	2335.7	2352.9	2344.3	2337.8
7.5°	2350.8	2329.2	2340.0	2327.0	2318.4
10°	2340.0	2316.2	2318.4	2296.8	2281.6
12.5°	2324.9	2296.8	2290.3	2247.1	2225.5
15°	2303.2	2270.8	2251.4	2195.2	2169.3
17.5°	2279.5	2242.8	2208.2	2145.5	2126.1
20°	2251.4	2208.2	2160.6	2095.8	2080.7
22.5°	2216.8	2171.4	2108.8	2050.5	2041.8
25°	2177.9	2128.2	2056.9	2002.9	1992.1
27.5°	2134.7	2076.4	2002.9	1948.9	1935.9
30°	2085.0	2024.5	1948.9	1886.2	1856.0
32.5°	2033.2	1970.5	1888.4	1808.5	1780.4
35°	1974.8	1912.2	1821.4	1735.0	1709.1
37.5°	1914.3	1849.5	1752.3	1661.5	1639.9
40°	1847.4	1784.7	1676.7	1588.1	1566.5
42.5°	1778.2	1717.7	1601.0	1512.5	1477.9
45°	1702.6	1646.4	1521.1	1404.4	1251.0
47.5°	1622.6	1570.8	1441.2	1268.3	1091.1
50°	1540.5	1493.0	1359.0	1147.3	985.3
52.5°	1456.3	1413.1	1274.8	1041.4	911.8
55°	1367.7	1326.6	1184.0	948.5	842.7
57.5°	1279.1	1238.0	1097.6	864.3	784.3
60°	1186.2	1147.3	1002.5	786.5	726.0
62.5°	1095.4	1052.2	909.6	715.2	672.0
65°	989.6	950.7	816.7	643.9	613.6
67.5°	890.2	849.1	726.0	574.7	557.4
70°	784.3	743.3	635.2	503.4	496.9
72.5°	672.0	639.6	540.2	434.3	430.0
75°	555.3	527.2	442.9	358.7	365.1
77.5°	440.8	423.5	350.0	287.4	291.7
80°	332.7	319.8	257.1	213.9	218.2
82.5°	237.7	226.9	175.0	142.6	142.6
85°	153.4	136.1	99.4	79.9	79.9
87.5°	60.5	49.7	30.2	8.6	4.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)