

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: P197369

Luminaire Tested: **8WSL-LD2-80-UNV-L830-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P197369
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-LD2-80-UNV-L830-CD1-U
Description: 8FT. Linear Wavestream System, L830
Light Source: (476) 3000K CCT, 80 CRI LEDS
EL236N0119D830
Ballast/Driver: OSRAM
OT85W1202772A0DIML

Summary

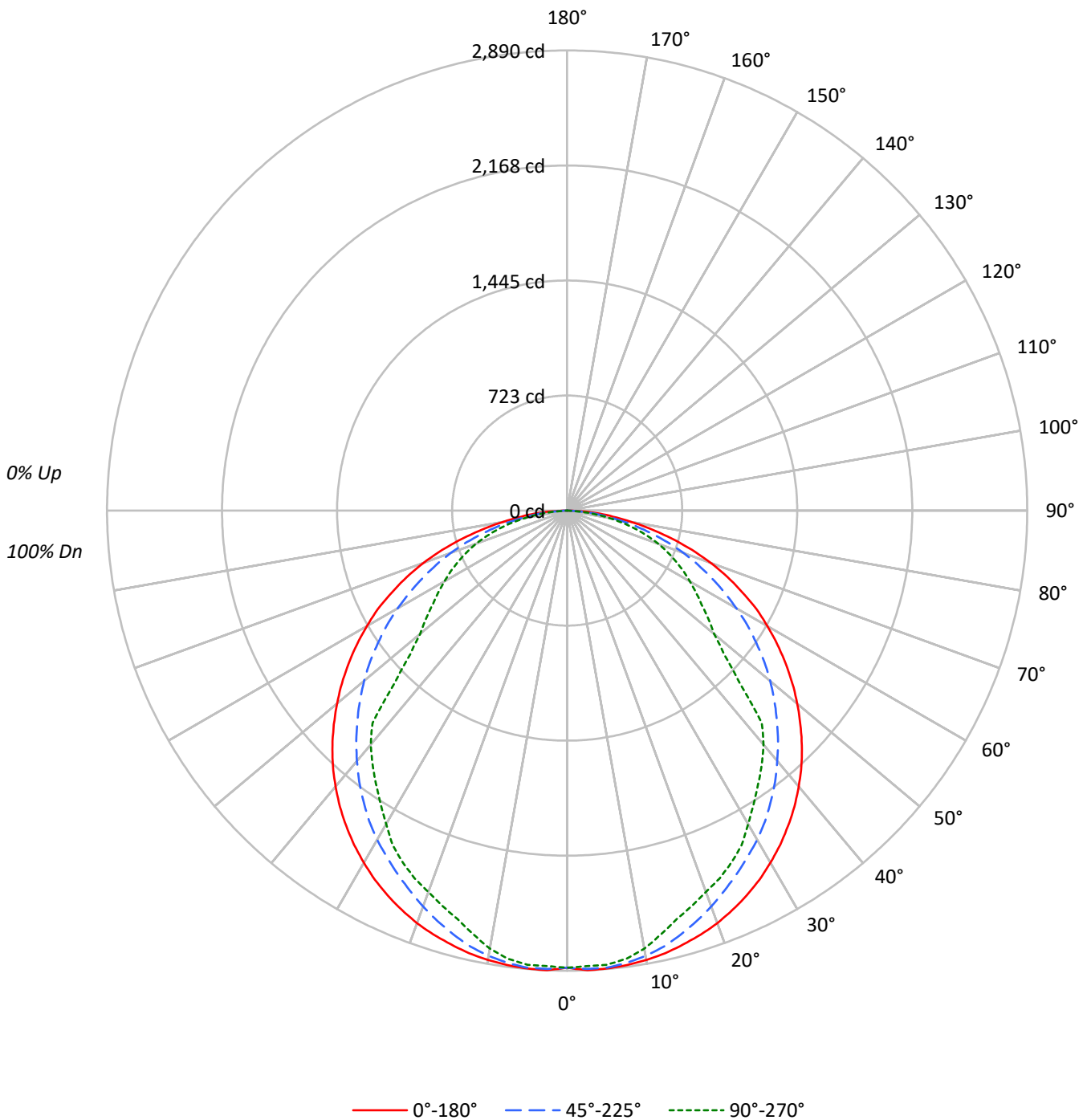
Lumens per Lamp: N/A
Luminaire Lumens: 7998.4 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.18 / 1.35
Luminous Opening: Rectangular (W 0.5' x L: 7.6' x H: 0')
CIE Type: Direct

Input Watts (W): 73.1
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°	8132	8132	8132
5°	8209	8194	8141
10°	8243	8167	8037
15°	8272	8086	7791
20°	8311	7976	7681
25°	8336	7873	7625
30°	8352	7807	7435
35°	8363	7714	7238
40°	8366	7593	7094
45°	8353	7463	6137
50°	8314	7335	5317
55°	8272	7161	5097
60°	8230	6956	5037
65°	8123	6704	5037
70°	7955	6443	5040
75°	7442	5937	4894
80°	6647	5137	4360
85°	6107	3955	3182



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.7	3.4
10°-20°	774.0	9.7
20°-30°	1166.8	14.6
30°-40°	1400.9	17.5
40°-50°	1426.8	17.8
50°-60°	1252.2	15.7
60°-70°	974.0	12.2
70°-80°	579.3	7.2
80°-90°	151.6	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°	2213.6	27.7
0°-40°	3614.5	45.2
0°-60°	6293.5	78.7
0°-90°	7998.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7998.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2871	2871	2871	2871	2871	
5°	2887	2860	2882	2871	2863	275
15°	2821	2781	2757	2688	2657	797
25°	2667	2606	2519	2453	2440	1230
35°	2418	2342	2231	2125	2093	1514
45°	2085	2016	1863	1720	1532	1608
55°	1675	1625	1450	1162	1032	1498
65°	1212	1164	1000	788	752	1200
75°	680	646	542	439	447	719
85°	188	167	122	98	98	206
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2871.0	2871.0	2871.0	2871.0	2871.0
2.5°	2889.5	2860.4	2881.6	2876.3	2863.1
5°	2886.9	2860.4	2881.6	2871.0	2863.1
7.5°	2879.0	2852.5	2865.7	2849.9	2839.3
10°	2865.7	2836.6	2839.3	2812.8	2794.3
12.5°	2847.2	2812.8	2804.9	2751.9	2725.5
15°	2820.7	2781.1	2757.2	2688.4	2656.7
17.5°	2791.6	2746.7	2704.3	2627.6	2603.8
20°	2757.2	2704.3	2646.1	2566.7	2548.2
22.5°	2714.9	2659.3	2582.6	2511.2	2500.6
25°	2667.3	2606.4	2519.1	2452.9	2439.7
27.5°	2614.3	2542.9	2452.9	2386.8	2370.9
30°	2553.5	2479.4	2386.8	2310.0	2273.0
32.5°	2490.0	2413.2	2312.7	2214.8	2180.4
35°	2418.5	2341.8	2230.7	2124.8	2093.1
37.5°	2344.4	2265.1	2146.0	2034.9	2008.4
40°	2262.4	2185.7	2053.4	1944.9	1918.4
42.5°	2177.7	2103.7	1960.8	1852.3	1809.9
45°	2085.1	2016.3	1862.9	1720.0	1532.1
47.5°	1987.2	1923.7	1765.0	1553.3	1336.3
50°	1886.7	1828.5	1664.4	1405.1	1206.6
52.5°	1783.5	1730.6	1561.2	1275.4	1116.7
55°	1675.0	1624.7	1450.1	1161.6	1032.0
57.5°	1566.5	1516.2	1344.2	1058.4	960.5
60°	1452.7	1405.1	1227.8	963.2	889.1
62.5°	1341.6	1288.7	1114.0	875.9	822.9
65°	1211.9	1164.3	1000.2	788.5	751.5
67.5°	1090.2	1039.9	889.1	703.9	682.7
70°	960.5	910.3	778.0	616.5	608.6
72.5°	822.9	783.2	661.5	531.9	526.6
75°	680.0	645.6	542.5	439.3	447.2
77.5°	539.8	518.6	428.7	351.9	357.2
80°	407.5	391.6	314.9	262.0	267.3
82.5°	291.1	277.8	214.3	174.6	174.6
85°	187.9	166.7	121.7	97.9	97.9
87.5°	74.1	60.9	37.0	10.6	5.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)