

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: P197361

Luminaire Tested: **8WSL-LD2-70-UNV-L830-CD1-U**

Issue Date: 3/3/2020



**Test Information**

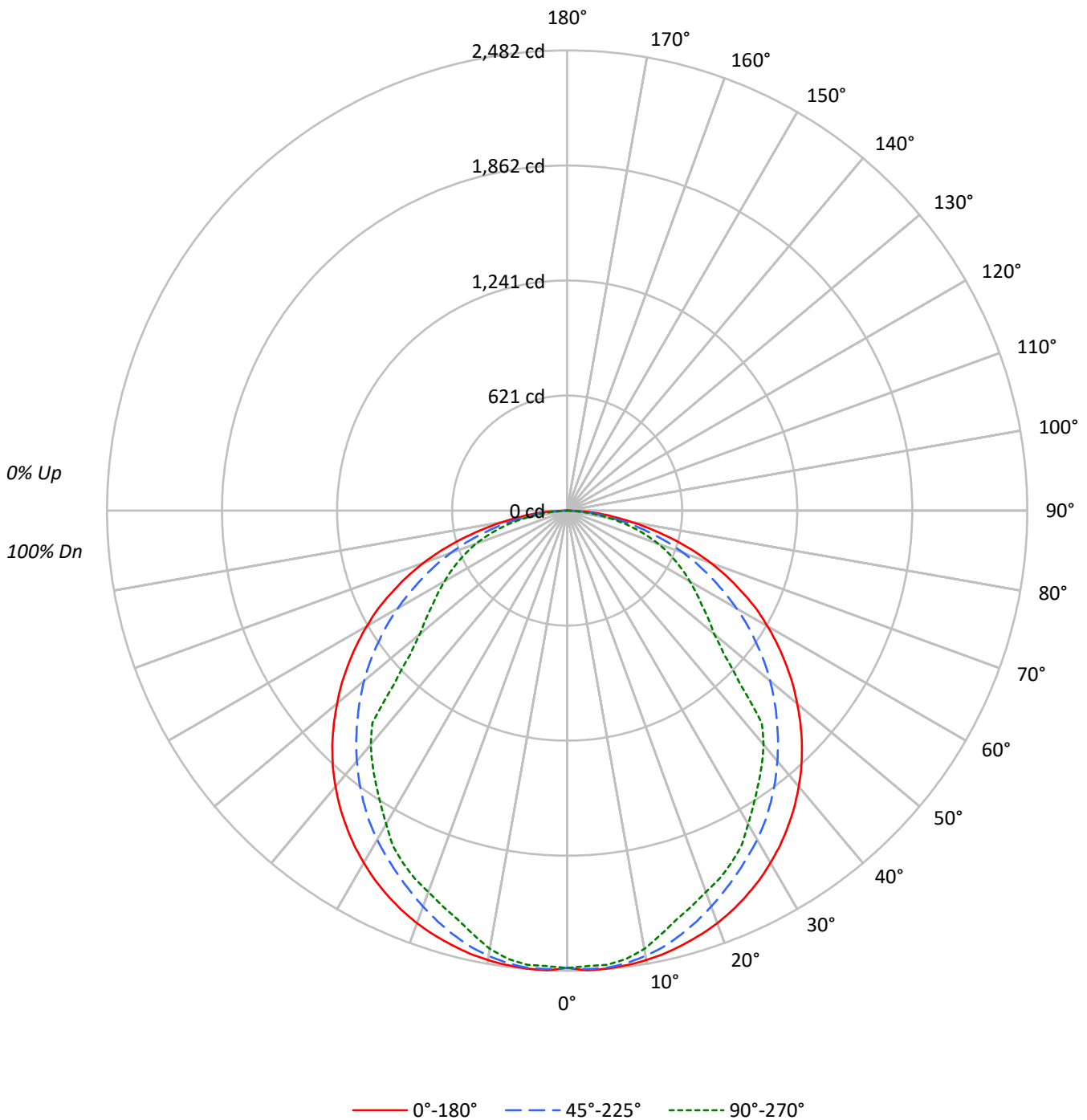
Test Method: LM-79-08  
Report Number: P197361  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P28104)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8WSL-LD2-70-UNV-L830-CD1-U  
Description: 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: 6870.8 lumens  
Efficiency: N/A  
Efficacy: 108.0 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): 63.6  
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°	6986	6986	6986
5°	7051	7039	6993
10°	7081	7015	6904
15°	7106	6946	6692
20°	7140	6852	6598
25°	7161	6763	6550
30°	7175	6706	6387
35°	7184	6626	6217
40°	7186	6522	6094
45°	7175	6410	5272
50°	7142	6300	4568
55°	7106	6151	4378
60°	7070	5975	4327
65°	6978	5759	4326
70°	6833	5535	4330
75°	6394	5100	4204
80°	5711	4412	3745
85°	5246	3400	2733



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	234.3	3.4
10°-20°	664.9	9.7
20°-30°	1002.3	14.6
30°-40°	1203.4	17.5
40°-50°	1225.6	17.8
50°-60°	1075.6	15.7
60°-70°	836.7	12.2
70°-80°	497.6	7.2
80°-90°	130.2	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°	1901.5	27.7
0°-40°	3104.9	45.2
0°-60°	5406.2	78.7
0°-90°	6870.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6870.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2466	2466	2466	2466	2466	
5°	2480	2457	2475	2466	2459	236
15°	2423	2389	2368	2309	2282	685
25°	2291	2239	2164	2107	2096	1056
35°	2078	2012	1916	1825	1798	1300
45°	1791	1732	1600	1478	1316	1381
55°	1439	1396	1246	998	886	1287
65°	1041	1000	859	677	646	1031
75°	584	555	466	377	384	618
85°	161	143	105	84	84	177
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2466.3	2466.3	2466.3	2466.3	2466.3
2.5°	2482.2	2457.2	2475.4	2470.8	2459.4
5°	2479.9	2457.2	2475.4	2466.3	2459.4
7.5°	2473.1	2450.4	2461.7	2448.1	2439.0
10°	2461.7	2436.7	2439.0	2416.3	2400.3
12.5°	2445.8	2416.3	2409.4	2364.0	2341.2
15°	2423.1	2389.0	2368.5	2309.4	2282.1
17.5°	2398.1	2359.4	2323.1	2257.1	2236.7
20°	2368.5	2323.1	2273.1	2204.9	2188.9
22.5°	2332.2	2284.4	2218.5	2157.1	2148.0
25°	2291.2	2239.0	2163.9	2107.1	2095.8
27.5°	2245.8	2184.4	2107.1	2050.3	2036.7
30°	2193.5	2129.8	2050.3	1984.4	1952.6
32.5°	2138.9	2073.0	1986.6	1902.5	1873.0
35°	2077.6	2011.7	1916.2	1825.3	1798.0
37.5°	2013.9	1945.7	1843.4	1748.0	1725.2
40°	1943.5	1877.5	1763.9	1670.7	1648.0
42.5°	1870.7	1807.1	1684.3	1591.1	1554.8
45°	1791.2	1732.1	1600.2	1477.5	1316.1
47.5°	1707.1	1652.5	1516.1	1334.3	1147.9
50°	1620.7	1570.7	1429.7	1207.0	1036.5
52.5°	1532.0	1486.6	1341.1	1095.6	959.2
55°	1438.8	1395.7	1245.6	997.9	886.5
57.5°	1345.6	1302.5	1154.7	909.2	825.1
60°	1247.9	1207.0	1054.7	827.4	763.7
62.5°	1152.4	1107.0	957.0	752.4	706.9
65°	1041.1	1000.1	859.2	677.4	645.5
67.5°	936.5	893.3	763.7	604.6	586.4
70°	825.1	781.9	668.3	529.6	522.8
72.5°	706.9	672.8	568.3	456.9	452.3
75°	584.2	554.6	466.0	377.3	384.1
77.5°	463.7	445.5	368.2	302.3	306.9
80°	350.1	336.4	270.5	225.0	229.6
82.5°	250.0	238.7	184.1	150.0	150.0
85°	161.4	143.2	104.6	84.1	84.1
87.5°	63.6	52.3	31.8	9.1	4.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)