

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: P197365

Luminaire Tested: **8WSL-LD2-75-UNV-L830-CD1-U**

Issue Date: 3/3/2020



**Test Information**

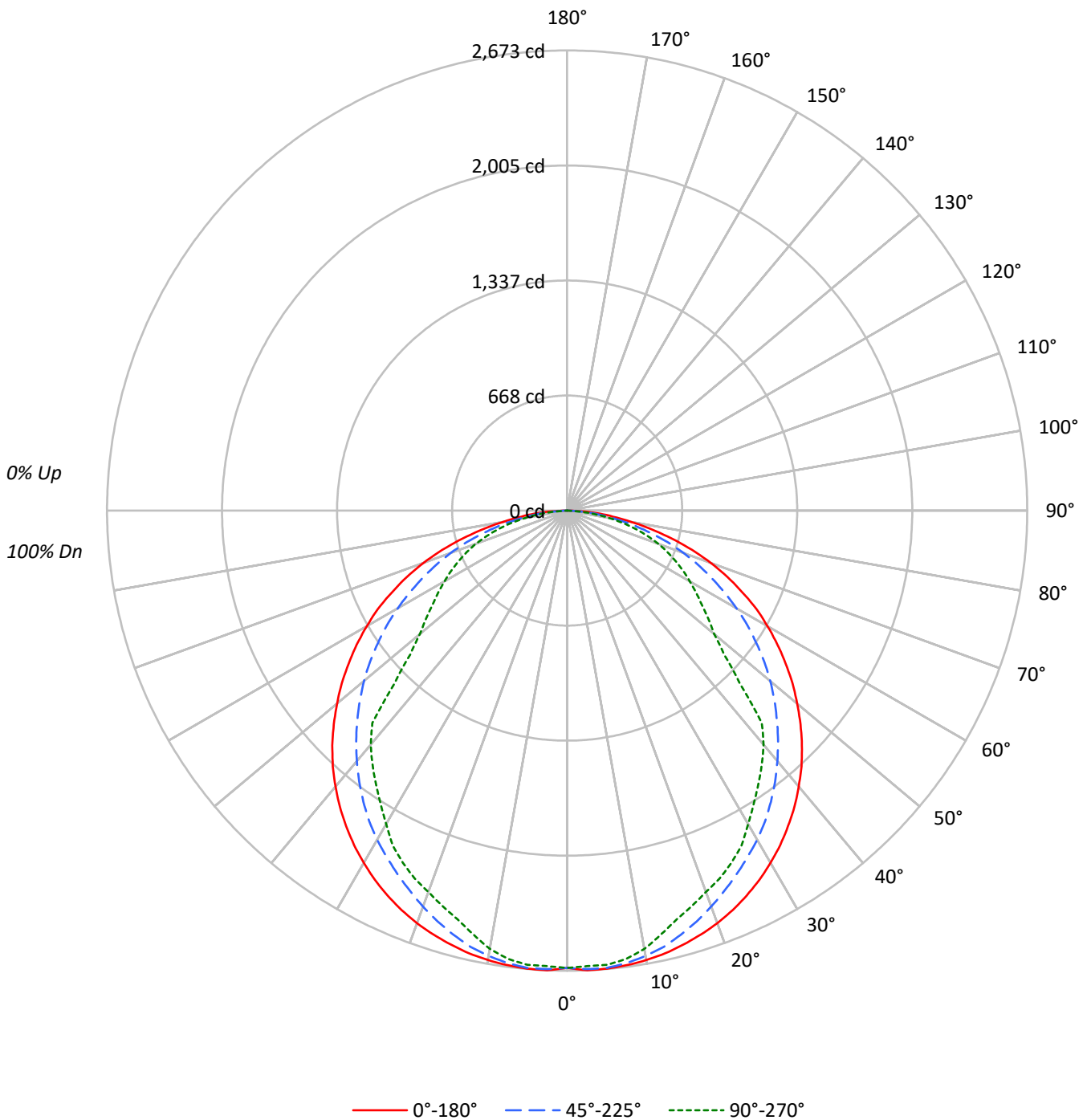
Test Method: LM-79-08  
Report Number: P197365  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P28104)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8WSL-LD2-75-UNV-L830-CD1-U  
Description: 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: 7399.9 lumens  
Efficiency: N/A  
Efficacy: 110.1 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): 67.2  
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°	7524	7524	7524
5°	7595	7581	7532
10°	7626	7555	7436
15°	7653	7481	7208
20°	7689	7380	7106
25°	7713	7284	7055
30°	7727	7223	6878
35°	7738	7137	6696
40°	7740	7025	6563
45°	7728	6904	5678
50°	7692	6786	4919
55°	7653	6625	4715
60°	7614	6435	4660
65°	7515	6203	4660
70°	7360	5961	4664
75°	6886	5493	4528
80°	6150	4752	4034
85°	5649	3660	2945



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	252.3	3.4
10°-20°	716.1	9.7
20°-30°	1079.5	14.6
30°-40°	1296.1	17.5
40°-50°	1320.0	17.8
50°-60°	1158.5	15.7
60°-70°	901.1	12.2
70°-80°	536.0	7.2
80°-90°	140.3	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°	2047.9	27.7
0°-40°	3344.0	45.2
0°-60°	5822.5	78.7
0°-90°	7399.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7399.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2656	2656	2656	2656	2656	
5°	2671	2646	2666	2656	2649	254
15°	2610	2573	2551	2487	2458	738
25°	2468	2411	2331	2269	2257	1138
35°	2238	2167	2064	1966	1936	1400
45°	1929	1866	1724	1591	1418	1487
55°	1550	1503	1342	1075	955	1386
65°	1121	1077	925	730	695	1111
75°	629	597	502	406	414	665
85°	174	154	113	91	91	190
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2656.2	2656.2	2656.2	2656.2	2656.2
2.5°	2673.3	2646.4	2666.0	2661.1	2648.8
5°	2670.9	2646.4	2666.0	2656.2	2648.8
7.5°	2663.5	2639.1	2651.3	2636.6	2626.8
10°	2651.3	2624.4	2626.8	2602.3	2585.2
12.5°	2634.2	2602.3	2595.0	2546.0	2521.5
15°	2609.7	2573.0	2550.9	2487.3	2457.9
17.5°	2582.7	2541.1	2502.0	2431.0	2408.9
20°	2550.9	2502.0	2448.1	2374.7	2357.5
22.5°	2511.8	2460.3	2389.3	2323.3	2313.5
25°	2467.7	2411.4	2330.6	2269.4	2257.2
27.5°	2418.7	2352.6	2269.4	2208.2	2193.5
30°	2362.4	2293.9	2208.2	2137.2	2102.9
32.5°	2303.7	2232.7	2139.6	2049.1	2017.2
35°	2237.6	2166.6	2063.8	1965.8	1936.5
37.5°	2169.0	2095.6	1985.4	1882.6	1858.1
40°	2093.1	2022.1	1899.7	1799.4	1774.9
42.5°	2014.8	1946.2	1814.0	1713.7	1674.5
45°	1929.1	1865.5	1723.5	1591.3	1417.5
47.5°	1838.5	1779.8	1632.9	1437.0	1236.3
50°	1745.5	1691.6	1539.9	1299.9	1116.3
52.5°	1650.0	1601.1	1444.4	1180.0	1033.1
55°	1549.6	1503.1	1341.6	1074.7	954.8
57.5°	1449.3	1402.8	1243.6	979.2	888.7
60°	1344.0	1299.9	1135.9	891.1	822.6
62.5°	1241.2	1192.2	1030.7	810.3	761.4
65°	1121.2	1077.2	925.4	729.5	695.3
67.5°	1008.6	962.1	822.6	651.2	631.6
70°	888.7	842.1	719.7	570.4	563.1
72.5°	761.4	724.6	612.0	492.1	487.2
75°	629.2	597.3	501.9	406.4	413.7
77.5°	499.4	479.8	396.6	325.6	330.5
80°	377.0	362.3	291.3	242.4	247.3
82.5°	269.3	257.1	198.3	161.6	161.6
85°	173.8	154.2	112.6	90.6	90.6
87.5°	68.5	56.3	34.3	9.8	4.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)