

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: P197367

Luminaire Tested: **8WSL-LD2-75-UNV-L840-CD1-U**

Issue Date: 3/3/2020



**Test Information**

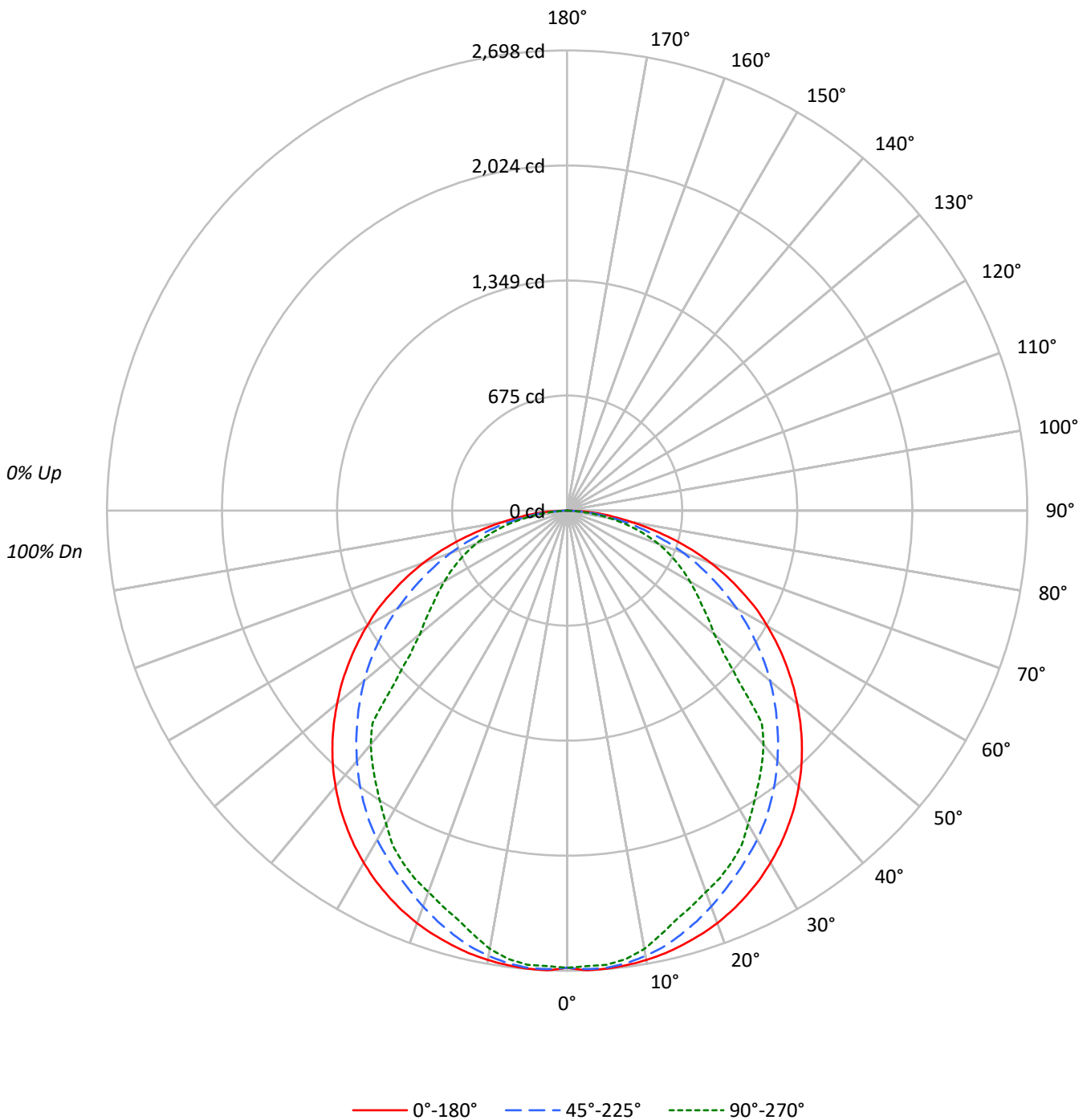
Test Method: LM-79-08  
Report Number: P197367  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P28104)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8WSL-LD2-75-UNV-L840-CD1-U  
Description: 8FT. Linear Wavestream System, L840  
Light Source: (476) 4000K CCT, 80 CRI LEDS  
EL236N0119D840  
Ballast/Driver: OSRAM  
OT85W1202772A0DIML

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7468.0 lumens  
Efficiency: N/A  
Efficacy: 111.1 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°	7593	7593	7593
5°	7664	7650	7601
10°	7696	7625	7504
15°	7723	7550	7274
20°	7760	7447	7172
25°	7784	7351	7119
30°	7798	7289	6942
35°	7809	7202	6758
40°	7811	7089	6623
45°	7799	6967	5730
50°	7763	6848	4965
55°	7723	6686	4758
60°	7684	6495	4703
65°	7584	6259	4703
70°	7427	6016	4706
75°	6950	5543	4569
80°	6207	4796	4070
85°	5701	3692	2971



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	254.7	3.4
10°-20°	722.7	9.7
20°-30°	1089.4	14.6
30°-40°	1308.0	17.5
40°-50°	1332.2	17.8
50°-60°	1169.1	15.7
60°-70°	909.4	12.2
70°-80°	540.9	7.2
80°-90°	141.5	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°	2066.8	27.7
0°-40°	3374.8	45.2
0°-60°	5876.1	78.7
0°-90°	7468.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7468.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2681	2681	2681	2681	2681	
5°	2696	2671	2690	2681	2673	257
15°	2634	2597	2574	2510	2480	744
25°	2490	2434	2352	2290	2278	1148
35°	2258	2186	2083	1984	1954	1413
45°	1947	1883	1739	1606	1430	1501
55°	1564	1517	1354	1085	964	1398
65°	1132	1087	934	736	702	1121
75°	635	603	506	410	418	671
85°	175	156	114	91	91	192
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2680.6	2680.6	2680.6	2680.6	2680.6
2.5°	2697.9	2670.8	2690.5	2685.6	2673.2
5°	2695.5	2670.8	2690.5	2680.6	2673.2
7.5°	2688.0	2663.3	2675.7	2660.9	2651.0
10°	2675.7	2648.5	2651.0	2626.3	2609.0
12.5°	2658.4	2626.3	2618.9	2569.5	2544.8
15°	2633.7	2596.6	2574.4	2510.2	2480.5
17.5°	2606.5	2564.5	2525.0	2453.3	2431.1
20°	2574.4	2525.0	2470.6	2396.5	2379.2
22.5°	2534.9	2483.0	2411.3	2344.6	2334.7
25°	2490.4	2433.6	2352.0	2290.3	2277.9
27.5°	2441.0	2374.3	2290.3	2228.5	2213.7
30°	2384.2	2315.0	2228.5	2156.9	2122.3
32.5°	2324.9	2253.2	2159.3	2067.9	2035.8
35°	2258.2	2186.5	2082.7	1983.9	1954.3
37.5°	2189.0	2114.9	2003.7	1899.9	1875.2
40°	2112.4	2040.7	1917.2	1815.9	1791.2
42.5°	2033.3	1964.2	1830.7	1729.4	1689.9
45°	1946.9	1882.6	1739.3	1605.9	1430.5
47.5°	1855.4	1796.1	1647.9	1450.3	1247.7
50°	1761.6	1707.2	1554.0	1311.9	1126.6
52.5°	1665.2	1615.8	1457.7	1190.8	1042.6
55°	1563.9	1517.0	1353.9	1084.6	963.5
57.5°	1462.6	1415.7	1255.1	988.3	896.8
60°	1356.4	1311.9	1146.4	899.3	830.1
62.5°	1252.6	1203.2	1040.1	817.8	768.4
65°	1131.5	1087.1	933.9	736.2	701.7
67.5°	1017.9	971.0	830.1	657.2	637.4
70°	896.8	849.9	726.4	575.7	568.2
72.5°	768.4	731.3	617.7	496.6	491.7
75°	635.0	602.8	506.5	410.1	417.5
77.5°	504.0	484.2	400.2	328.6	333.5
80°	380.5	365.7	294.0	244.6	249.5
82.5°	271.8	259.4	200.1	163.1	163.1
85°	175.4	155.6	113.6	91.4	91.4
87.5°	69.2	56.8	34.6	9.9	4.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)