

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: P197371

Luminaire Tested: **8WSL-LD2-80-UNV-L840-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P197371
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-L840-CD1-U
Description: 8FT. Linear Wavestream System, L840
Light Source: (476) 4000K CCT, 80 CRI LEDS
EL236N0119D840
Ballast/Driver: OSRAM
OT85W1202772A0DIML

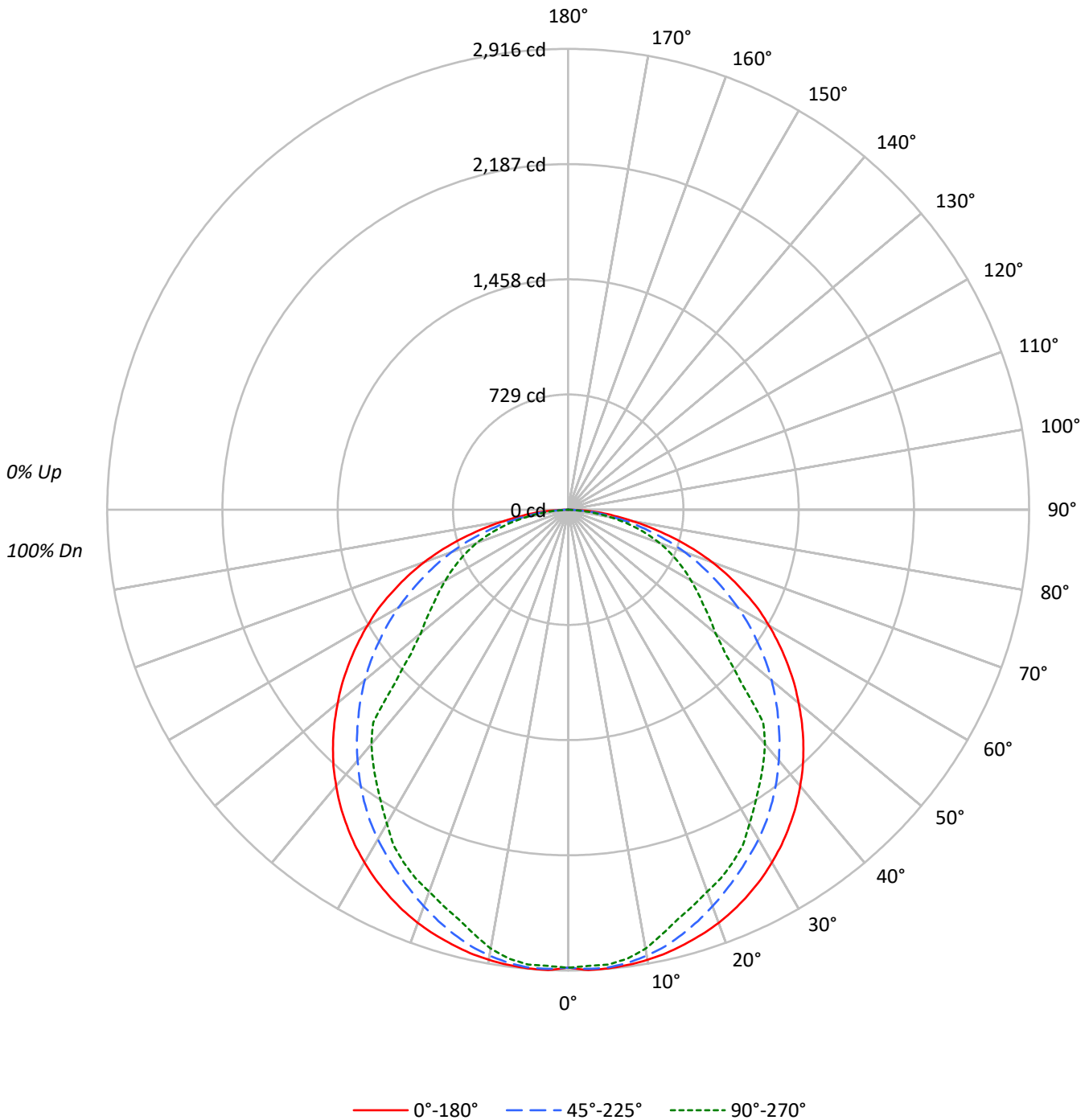
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8072.0 lumens
Efficiency: N/A
Efficacy: 110.4 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°	8207	8207	8207
5°	8284	8269	8216
10°	8319	8242	8111
15°	8348	8160	7862
20°	8388	8050	7752
25°	8413	7946	7695
30°	8429	7878	7503
35°	8440	7785	7304
40°	8443	7663	7159
45°	8430	7531	6194
50°	8390	7402	5366
55°	8348	7227	5143
60°	8306	7020	5083
65°	8198	6766	5083
70°	8029	6502	5087
75°	7511	5991	4939
80°	6708	5184	4399
85°	6162	3991	3211



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.2	3.4
10°-20°	781.1	9.7
20°-30°	1177.5	14.6
30°-40°	1413.8	17.5
40°-50°	1439.9	17.8
50°-60°	1263.7	15.7
60°-70°	983.0	12.2
70°-80°	584.6	7.2
80°-90°	153.0	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°	2233.9	27.7
0°-40°	3647.8	45.2
0°-60°	6351.4	78.7
0°-90°	8072.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8072.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2897	2897	2897	2897	2897	
5°	2914	2887	2908	2897	2889	277
15°	2847	2807	2783	2713	2681	804
25°	2692	2630	2542	2476	2462	1241
35°	2441	2363	2251	2144	2112	1528
45°	2104	2035	1880	1736	1546	1623
55°	1690	1640	1463	1172	1042	1512
65°	1223	1175	1009	796	758	1212
75°	686	652	547	443	451	726
85°	190	168	123	99	99	208
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2897.4	2897.4	2897.4	2897.4	2897.4
2.5°	2916.1	2886.8	2908.1	2902.8	2889.4
5°	2913.5	2886.8	2908.1	2897.4	2889.4
7.5°	2905.5	2878.7	2892.1	2876.1	2865.4
10°	2892.1	2862.7	2865.4	2838.7	2820.0
12.5°	2873.4	2838.7	2830.7	2777.3	2750.6
15°	2846.7	2806.6	2782.6	2713.2	2681.1
17.5°	2817.3	2771.9	2729.2	2651.8	2627.7
20°	2782.6	2729.2	2670.5	2590.3	2571.6
22.5°	2739.9	2683.8	2606.4	2534.3	2523.6
25°	2691.8	2630.4	2542.3	2475.5	2462.2
27.5°	2638.4	2566.3	2475.5	2408.7	2392.7
30°	2577.0	2502.2	2408.7	2331.3	2293.9
32.5°	2512.9	2435.5	2334.0	2235.2	2200.5
35°	2440.8	2363.4	2251.2	2144.4	2112.3
37.5°	2366.0	2285.9	2165.7	2053.6	2026.9
40°	2283.2	2205.8	2072.3	1962.8	1936.1
42.5°	2197.8	2123.0	1978.8	1869.3	1826.6
45°	2104.3	2034.9	1880.0	1735.8	1546.2
47.5°	2005.5	1941.4	1781.2	1567.6	1348.6
50°	1904.0	1845.3	1679.7	1418.0	1217.7
52.5°	1799.9	1746.5	1575.6	1287.2	1126.9
55°	1690.4	1639.7	1463.4	1172.3	1041.5
57.5°	1580.9	1530.2	1356.6	1068.2	969.4
60°	1466.1	1418.0	1239.1	972.0	897.3
62.5°	1353.9	1300.5	1124.3	883.9	830.5
65°	1223.1	1175.0	1009.4	795.8	758.4
67.5°	1100.2	1049.5	897.3	710.3	689.0
70°	969.4	918.6	785.1	622.2	614.2
72.5°	830.5	790.5	667.6	536.8	531.4
75°	686.3	651.6	547.4	443.3	451.3
77.5°	544.8	523.4	432.6	355.2	360.5
80°	411.2	395.2	317.8	264.4	269.7
82.5°	293.7	280.4	216.3	176.2	176.2
85°	189.6	168.2	122.8	98.8	98.8
87.5°	74.8	61.4	37.4	10.7	5.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)