

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: P197368

Luminaire Tested: **8WSL-LD2-75-UNV-L850-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P197368
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-L850-CD1-U
Description: 8FT. Linear Wavestream System, L850
Light Source: (476) 5000K CCT, 80 CRI LEDS
EL236N0119D850
Ballast/Driver: OSRAM
OT85W1202772A0DIML

Summary

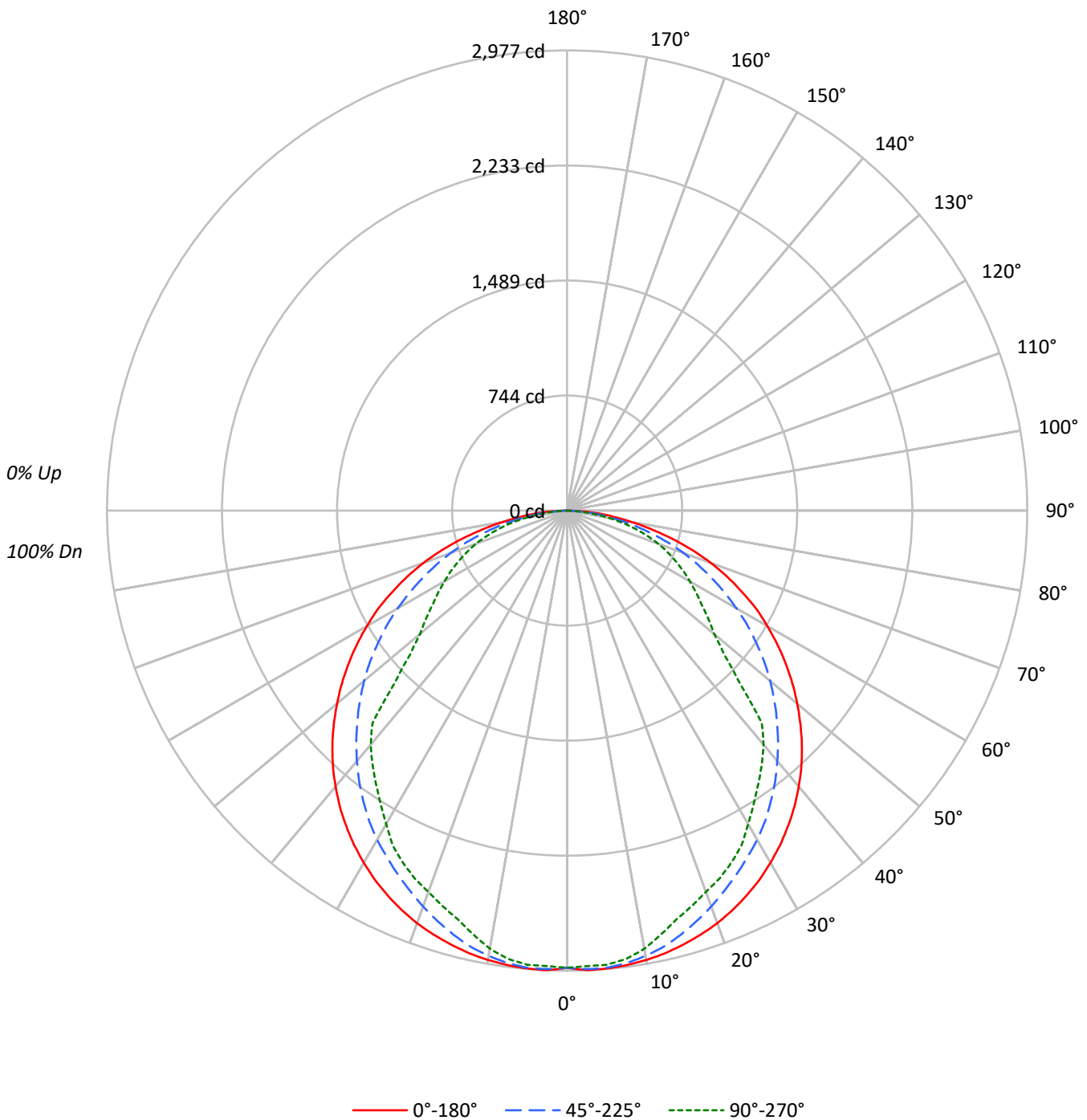
Lumens per Lamp: N/A
Luminaire Lumens: 8239.8 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.18 / 1.35
Luminous Opening: Rectangular (W 0.5' x L: 7.6' x H: 0')
CIE Type: Direct

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°	8378	8378	8378
5°	8456	8441	8387
10°	8491	8413	8280
15°	8522	8330	8026
20°	8562	8217	7913
25°	8588	8111	7855
30°	8604	8042	7659
35°	8616	7946	7456
40°	8618	7822	7308
45°	8605	7688	6323
50°	8565	7556	5478
55°	8521	7377	5250
60°	8479	7165	5189
65°	8368	6906	5189
70°	8195	6637	5193
75°	7668	6116	5042
80°	6848	5292	4491
85°	6289	4076	3279



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.0	3.4
10°-20°	797.4	9.7
20°-30°	1202.0	14.6
30°-40°	1443.2	17.5
40°-50°	1469.9	17.8
50°-60°	1290.0	15.7
60°-70°	1003.4	12.2
70°-80°	596.8	7.2
80°-90°	156.2	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°	2280.4	27.7
0°-40°	3723.6	45.2
0°-60°	6483.4	78.7
0°-90°	8239.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8239.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2958	2958	2958	2958	2958	
5°	2974	2947	2969	2958	2950	283
15°	2906	2865	2840	2770	2737	821
25°	2748	2685	2595	2527	2513	1267
35°	2492	2412	2298	2189	2156	1559
45°	2148	2077	1919	1772	1578	1656
55°	1726	1674	1494	1197	1063	1543
65°	1248	1199	1030	812	774	1237
75°	701	665	559	452	461	741
85°	194	172	125	101	101	212
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2957.7	2957.7	2957.7	2957.7	2957.7
2.5°	2976.7	2946.8	2968.6	2963.1	2949.5
5°	2974.0	2946.8	2968.6	2957.7	2949.5
7.5°	2965.8	2938.6	2952.2	2935.9	2925.0
10°	2952.2	2922.2	2925.0	2897.7	2878.6
12.5°	2933.1	2897.7	2889.5	2835.0	2807.7
15°	2905.9	2865.0	2840.4	2769.6	2736.9
17.5°	2875.9	2829.5	2785.9	2706.9	2682.3
20°	2840.4	2785.9	2726.0	2644.2	2625.1
22.5°	2796.8	2739.6	2660.5	2586.9	2576.0
25°	2747.8	2685.1	2595.1	2527.0	2513.3
27.5°	2693.2	2619.6	2527.0	2458.8	2442.5
30°	2630.5	2554.2	2458.8	2379.8	2341.6
32.5°	2565.1	2486.1	2382.5	2281.6	2246.2
35°	2491.5	2412.5	2298.0	2188.9	2156.2
37.5°	2415.2	2333.4	2210.8	2096.3	2069.0
40°	2330.7	2251.6	2115.3	2003.6	1976.3
42.5°	2243.5	2167.1	2019.9	1908.2	1864.6
45°	2148.1	2077.2	1919.1	1771.9	1578.3
47.5°	2047.2	1981.8	1818.2	1600.1	1376.6
50°	1943.6	1883.6	1714.6	1447.5	1243.0
52.5°	1837.3	1782.8	1608.3	1313.9	1150.4
55°	1725.5	1673.7	1493.8	1196.7	1063.1
57.5°	1613.8	1562.0	1384.8	1090.4	989.5
60°	1496.6	1447.5	1264.8	992.2	915.9
62.5°	1382.1	1327.5	1147.6	902.3	847.8
65°	1248.5	1199.4	1030.4	812.3	774.2
67.5°	1123.1	1071.3	915.9	725.1	703.3
70°	989.5	937.7	801.4	635.1	627.0
72.5°	847.8	806.9	681.5	547.9	542.5
75°	700.6	665.1	558.8	452.5	460.7
77.5°	556.1	534.3	441.6	362.6	368.0
80°	419.8	403.4	324.4	269.9	275.3
82.5°	299.9	286.2	220.8	179.9	179.9
85°	193.5	171.7	125.4	100.9	100.9
87.5°	76.3	62.7	38.2	10.9	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)