

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: P197396

Luminaire Tested: **8WSL-LD2-140-UNV-L850-CD2-U**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P197396  
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-LD2-140-UNV-L850-CD2-U  
Description: 8FT. Linear Wavestream System, L850  
Light Source: (476) 5000K CCT, 80 CRI LEDS  
EL236N0119D850  
Ballast/Driver: OSRAM  
OT85W1202772A0DIML

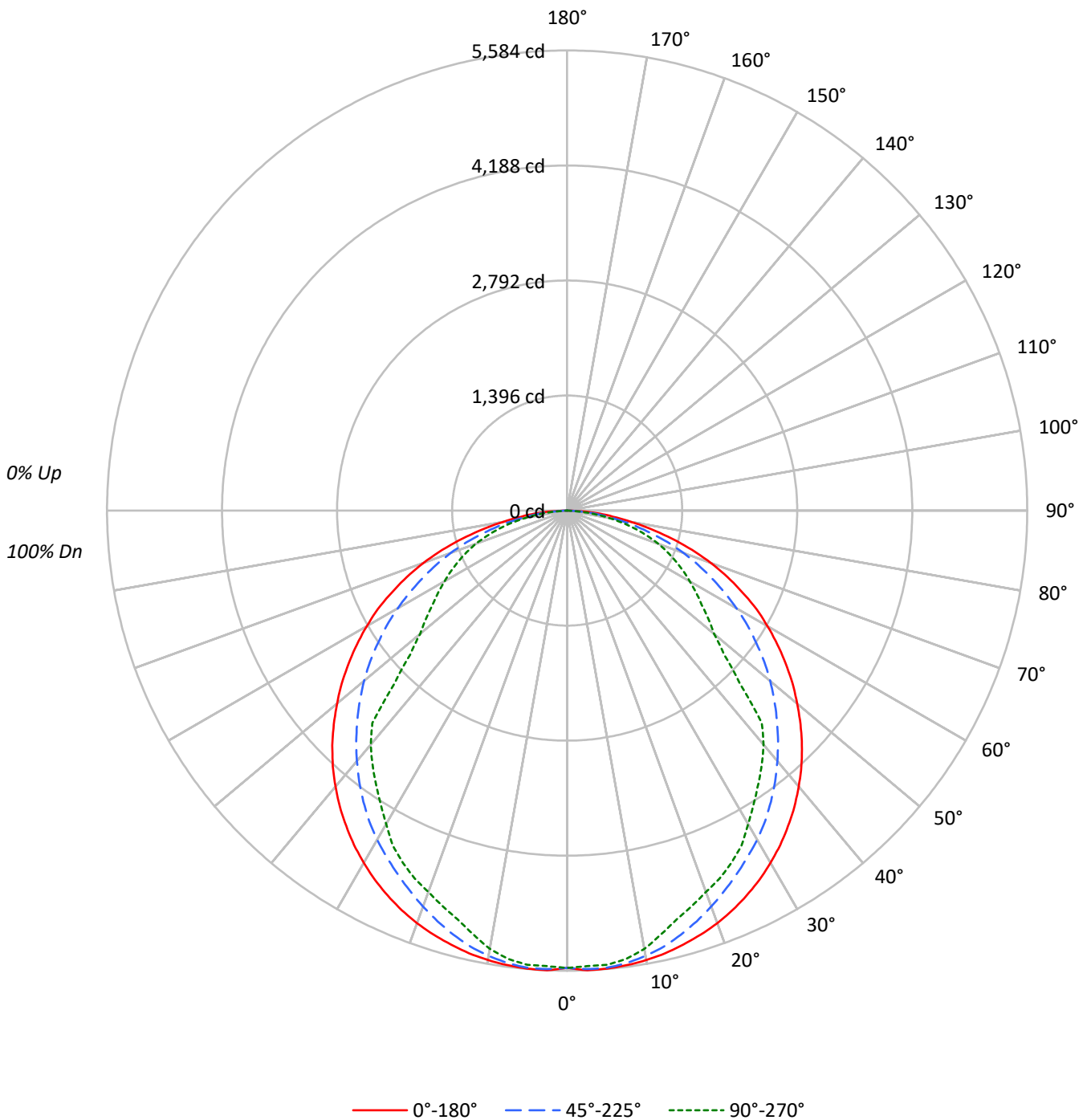
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15457.9 lumens  
Efficiency: N/A  
Efficacy: 113.2 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): 136.6  
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°	15717	15717	15717
5°	15864	15835	15733
10°	15930	15783	15533
15°	15986	15627	15057
20°	16063	15415	14845
25°	16111	15216	14736
30°	16141	15087	14368
35°	16163	14907	13988
40°	16168	14674	13710
45°	16143	14422	11862
50°	16068	14175	10276
55°	15986	13840	9849
60°	15905	13443	9735
65°	15699	12957	9734
70°	15374	12452	9741
75°	14384	11474	9459
80°	12846	9928	8425
85°	11801	7644	6149



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	527.1	3.4
10°-20°	1495.9	9.7
20°-30°	2255.0	14.6
30°-40°	2707.5	17.5
40°-50°	2757.5	17.8
50°-60°	2420.0	15.7
60°-70°	1882.4	12.2
70°-80°	1119.6	7.2
80°-90°	293.0	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°	4278.0	27.7
0°-40°	6985.4	45.2
0°-60°	12162.9	78.7
0°-90°	15457.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15457.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5549	5549	5549	5549	5549	
5°	5579	5528	5569	5549	5533	531
15°	5451	5375	5329	5196	5134	1541
25°	5155	5037	4868	4741	4715	2377
35°	4674	4526	4311	4106	4045	2925
45°	4030	3897	3600	3324	2961	3107
55°	3237	3140	2802	2245	1994	2895
65°	2342	2250	1933	1524	1452	2320
75°	1314	1248	1048	849	864	1390
85°	363	322	235	189	189	398
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5548.6	5548.6	5548.6	5548.6	5548.6
2.5°	5584.4	5528.1	5569.0	5558.8	5533.2
5°	5579.3	5528.1	5569.0	5548.6	5533.2
7.5°	5563.9	5512.8	5538.4	5507.7	5487.2
10°	5538.4	5482.1	5487.2	5436.1	5400.3
12.5°	5502.6	5436.1	5420.7	5318.5	5267.3
15°	5451.4	5374.7	5328.7	5195.7	5134.4
17.5°	5395.2	5308.2	5226.4	5078.1	5032.1
20°	5328.7	5226.4	5113.9	4960.5	4924.7
22.5°	5246.9	5139.5	4991.2	4853.1	4832.6
25°	5154.8	5037.2	4868.4	4740.6	4715.0
27.5°	5052.5	4914.5	4740.6	4612.7	4582.1
30°	4934.9	4791.7	4612.7	4464.4	4392.8
32.5°	4812.2	4663.9	4469.6	4280.3	4213.9
35°	4674.1	4525.8	4311.0	4106.5	4045.1
37.5°	4530.9	4377.5	4147.4	3932.6	3881.5
40°	4372.4	4224.1	3968.4	3758.7	3707.6
42.5°	4208.7	4065.6	3789.4	3579.7	3497.9
45°	4029.8	3896.8	3600.2	3324.0	2961.0
47.5°	3840.5	3717.8	3411.0	3001.9	2582.5
50°	3646.2	3533.7	3216.6	2715.5	2331.9
52.5°	3446.8	3344.5	3017.2	2464.9	2158.1
55°	3237.1	3139.9	2802.4	2245.0	1994.4
57.5°	3027.4	2930.3	2597.9	2045.6	1856.3
60°	2807.5	2715.5	2372.9	1861.5	1718.3
62.5°	2592.8	2490.5	2153.0	1692.7	1590.4
65°	2342.2	2250.1	1933.1	1523.9	1452.3
67.5°	2106.9	2009.8	1718.3	1360.3	1319.4
70°	1856.3	1759.2	1503.5	1191.5	1176.2
72.5°	1590.4	1513.7	1278.5	1027.9	1017.7
75°	1314.3	1247.8	1048.4	848.9	864.3
77.5°	1043.2	1002.3	828.5	680.1	690.4
80°	787.5	756.9	608.6	506.3	516.5
82.5°	562.5	537.0	414.2	337.5	337.5
85°	363.1	322.2	235.2	189.2	189.2
87.5°	143.2	117.6	71.6	20.5	10.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)