

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: P197400

Luminaire Tested: **8WSL-LD2-150-UNV-L850-CD2-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P197400
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-LD2-150-UNV-L850-CD2-U
Description: 8FT. Linear Wavestream System, L850
Light Source: (476) 5000K CCT, 80 CRI LEDS
EL236N0119D850
Ballast/Driver: OSRAM
OT85W1202772A0DIML

Summary

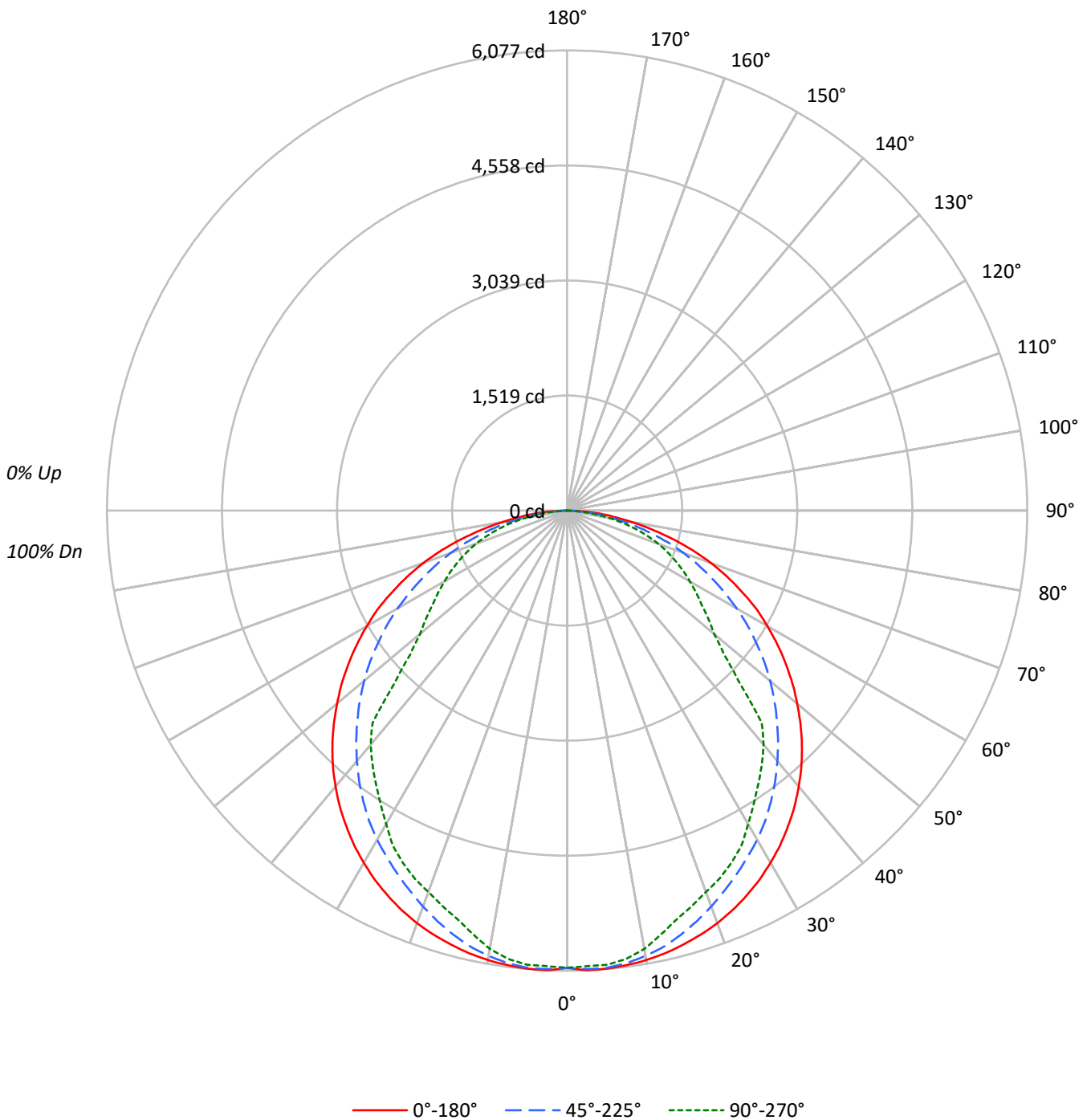
Lumens per Lamp: N/A
Luminaire Lumens: 16821.6 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.18 / 1.35
Luminous Opening: Rectangular (W 0.5' x L: 7.6' x H: 0')
CIE Type: Direct

Input Watts (W): 148.7
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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CATALOG NUMBER: 8WSL-LD2-150-UNV-L850-CD2-U

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°	17104	17104	17104
5°	17264	17232	17121
10°	17336	17175	16903
15°	17397	17005	16385
20°	17480	16775	16155
25°	17532	16558	16037
30°	17565	16419	15636
35°	17589	16223	15222
40°	17594	15969	14919
45°	17567	15694	12908
50°	17486	15425	11183
55°	17397	15061	10719
60°	17308	14629	10593
65°	17083	14099	10593
70°	16730	13550	10601
75°	15653	12485	10293
80°	13980	10802	9169
85°	12841	8320	6692



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	573.6	3.4
10°-20°	1627.8	9.7
20°-30°	2453.9	14.6
30°-40°	2946.3	17.5
40°-50°	3000.7	17.8
50°-60°	2633.5	15.7
60°-70°	2048.5	12.2
70°-80°	1218.4	7.2
80°-90°	318.8	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°	4655.4	27.7
0°-40°	7601.7	45.2
0°-60°	13235.9	78.7
0°-90°	16821.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16821.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6038	6038	6038	6038	6038	
5°	6072	6016	6060	6038	6021	578
15°	5932	5849	5799	5654	5587	1677
25°	5610	5482	5298	5159	5131	2587
35°	5086	4925	4691	4469	4402	3183
45°	4385	4241	3918	3617	3222	3381
55°	3523	3417	3050	2443	2170	3150
65°	2549	2449	2104	1658	1580	2525
75°	1430	1358	1141	924	940	1512
85°	395	351	256	206	206	433
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6038.1	6038.1	6038.1	6038.1	6038.1
2.5°	6077.1	6015.8	6060.4	6049.2	6021.4
5°	6071.5	6015.8	6060.4	6038.1	6021.4
7.5°	6054.8	5999.1	6027.0	5993.6	5971.3
10°	6027.0	5965.8	5971.3	5915.7	5876.7
12.5°	5988.0	5915.7	5899.0	5787.7	5732.0
15°	5932.4	5848.9	5798.8	5654.1	5587.3
17.5°	5871.1	5776.5	5687.5	5526.1	5476.0
20°	5798.8	5687.5	5565.1	5398.1	5359.2
22.5°	5709.8	5592.9	5431.5	5281.2	5259.0
25°	5609.6	5481.6	5297.9	5158.8	5131.0
27.5°	5498.3	5348.0	5158.8	5019.7	4986.3
30°	5370.3	5214.5	5019.7	4858.3	4780.4
32.5°	5236.7	5075.3	4863.9	4658.0	4585.6
35°	5086.5	4925.1	4691.4	4468.7	4402.0
37.5°	4930.7	4763.7	4513.3	4279.5	4223.9
40°	4758.1	4596.7	4318.5	4090.3	4034.7
42.5°	4580.1	4424.2	4123.7	3895.5	3806.5
45°	4385.3	4240.6	3917.8	3617.3	3222.2
47.5°	4179.4	4045.8	3711.9	3266.7	2810.4
50°	3967.9	3845.5	3500.4	2955.1	2537.7
52.5°	3750.9	3639.6	3283.4	2682.4	2348.5
55°	3522.7	3417.0	3049.7	2443.1	2170.4
57.5°	3294.5	3188.8	2827.1	2226.0	2020.1
60°	3055.2	2955.1	2582.2	2025.7	1869.9
62.5°	2821.5	2710.2	2342.9	1842.0	1730.7
65°	2548.8	2448.6	2103.6	1658.4	1580.5
67.5°	2292.8	2187.1	1869.9	1480.3	1435.8
70°	2020.1	1914.4	1636.1	1296.7	1280.0
72.5°	1730.7	1647.3	1391.3	1118.6	1107.4
75°	1430.2	1357.9	1140.8	923.8	940.5
77.5°	1135.3	1090.8	901.5	740.2	751.3
80°	857.0	823.6	662.2	550.9	562.1
82.5°	612.2	584.3	450.8	367.3	367.3
85°	395.1	350.6	256.0	205.9	205.9
87.5°	155.8	128.0	77.9	22.3	11.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)