

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: P197393

Luminaire Tested: **8WSL-LD2-140-UNV-L830-CD2-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P197393
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-L830-CD2-U
Description: 8FT. Linear Wavestream System, L830
Light Source: (476) 3000K CCT, 80 CRI LEDS
EL236N0119D830
Ballast/Driver: OSRAM
OT85W1202772A0DIML

Summary

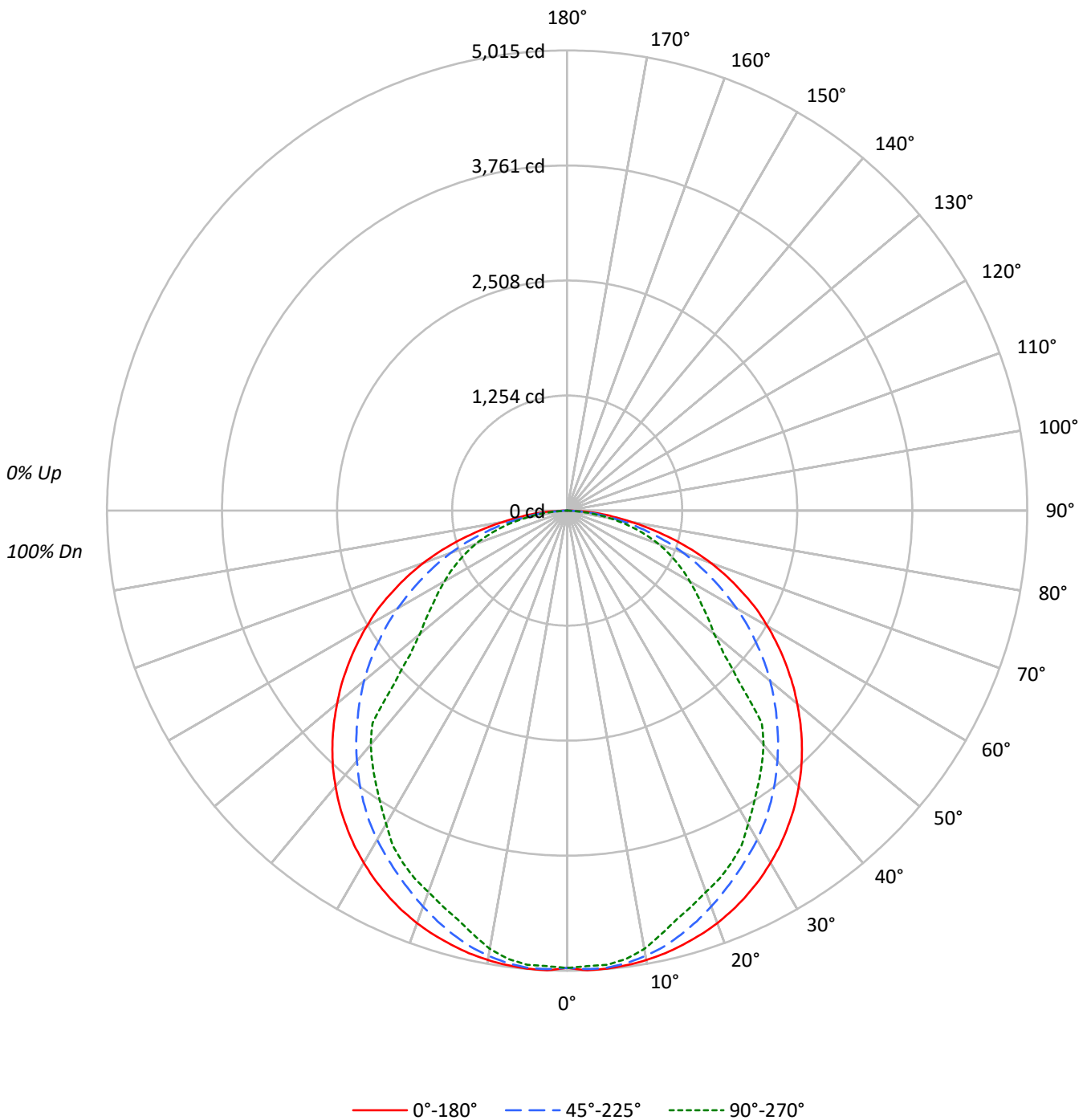
Lumens per Lamp: N/A
Luminaire Lumens: 13882.3 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.18 / 1.35
Luminous Opening: Rectangular (W 0.5' x L: 7.6' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	14115	14115	14115
5°	14247	14221	14130
10°	14306	14174	13950
15°	14357	14034	13522
20°	14425	13844	13332
25°	14469	13665	13234
30°	14496	13550	12904
35°	14516	13388	12562
40°	14520	13178	12312
45°	14497	12952	10652
50°	14430	12730	9229
55°	14357	12429	8845
60°	14284	12073	8742
65°	14098	11636	8742
70°	13807	11182	8748
75°	12918	10304	8495
80°	11538	8915	7567
85°	10598	6867	5522



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	473.4	3.4
10°-20°	1343.4	9.7
20°-30°	2025.1	14.6
30°-40°	2431.5	17.5
40°-50°	2476.4	17.8
50°-60°	2173.3	15.7
60°-70°	1690.5	12.2
70°-80°	1005.5	7.2
80°-90°	263.1	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°	3841.9	27.7
0°-40°	6273.4	45.2
0°-60°	10923.1	78.7
0°-90°	13882.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13882.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4983	4983	4983	4983	4983	
5°	5011	4965	5001	4983	4969	477
15°	4896	4827	4786	4666	4611	1384
25°	4629	4524	4372	4257	4234	2135
35°	4198	4064	3872	3688	3633	2627
45°	3619	3500	3233	2985	2659	2790
55°	2907	2820	2517	2016	1791	2600
65°	2103	2021	1736	1369	1304	2084
75°	1180	1121	942	762	776	1248
85°	326	289	211	170	170	357
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4983.0	4983.0	4983.0	4983.0	4983.0
2.5°	5015.2	4964.7	5001.4	4992.2	4969.3
5°	5010.6	4964.7	5001.4	4983.0	4969.3
7.5°	4996.8	4950.9	4973.8	4946.3	4927.9
10°	4973.8	4923.3	4927.9	4882.0	4849.8
12.5°	4941.7	4882.0	4868.2	4776.4	4730.4
15°	4895.8	4826.9	4785.5	4666.1	4611.0
17.5°	4845.2	4767.2	4693.7	4560.5	4519.2
20°	4785.5	4693.7	4592.7	4454.9	4422.7
22.5°	4712.1	4615.6	4482.4	4358.4	4340.1
25°	4629.4	4523.8	4372.2	4257.4	4234.4
27.5°	4537.5	4413.5	4257.4	4142.6	4115.0
30°	4431.9	4303.3	4142.6	4009.4	3945.1
32.5°	4321.7	4188.5	4014.0	3844.1	3784.3
35°	4197.7	4064.5	3871.6	3687.9	3632.8
37.5°	4069.1	3931.3	3724.6	3531.8	3485.8
40°	3926.7	3793.5	3563.9	3375.6	3329.7
42.5°	3779.8	3651.2	3403.2	3214.9	3141.4
45°	3619.0	3499.6	3233.2	2985.2	2659.1
47.5°	3449.1	3338.9	3063.3	2695.9	2319.3
50°	3274.6	3173.5	2888.8	2438.7	2094.3
52.5°	3095.4	3003.6	2709.7	2213.7	1938.1
55°	2907.1	2819.9	2516.8	2016.2	1791.1
57.5°	2718.9	2631.6	2333.1	1837.1	1667.1
60°	2521.4	2438.7	2131.0	1671.7	1543.1
62.5°	2328.5	2236.6	1933.5	1520.2	1428.3
65°	2103.4	2020.8	1736.0	1368.6	1304.3
67.5°	1892.2	1804.9	1543.1	1221.6	1184.9
70°	1667.1	1579.9	1350.2	1070.1	1056.3
72.5°	1428.3	1359.4	1148.2	923.1	913.9
75°	1180.3	1120.6	941.5	762.4	776.2
77.5°	936.9	900.2	744.0	610.8	620.0
80°	707.3	679.7	546.5	454.7	463.9
82.5°	505.2	482.2	372.0	303.1	303.1
85°	326.1	289.3	211.3	169.9	169.9
87.5°	128.6	105.6	64.3	18.4	9.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)