

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: P197395

Luminaire Tested: **8WSL-LD2-140-UNV-L840-CD2-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P197395
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-L840-CD2-U
Description: 8FT. Linear Wavestream System, L840
Light Source: (476) 4000K CCT, 80 CRI LEDS
EL236N0119D840
Ballast/Driver: OSRAM
OT85W1202772A0DIML

Summary

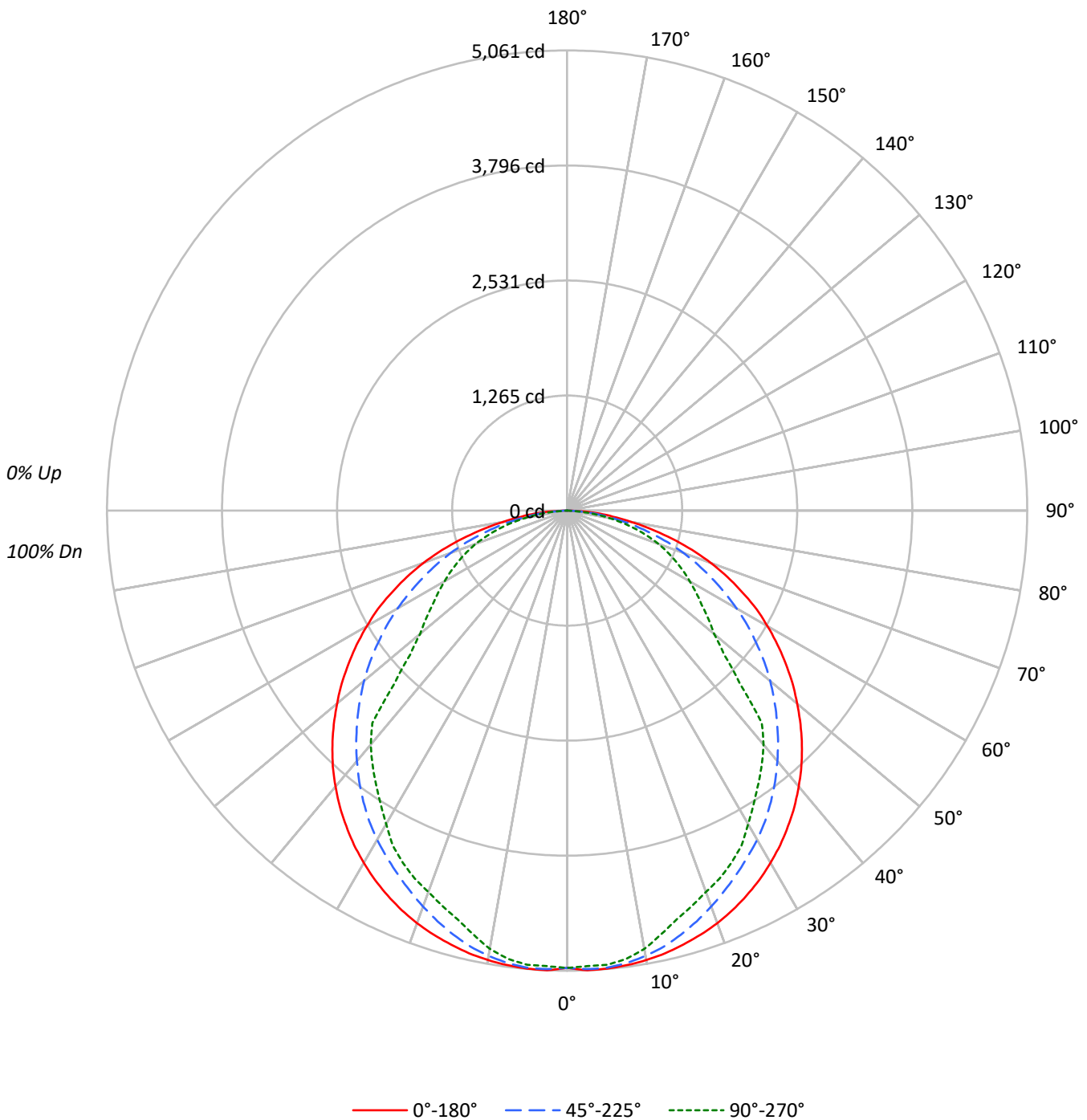
Lumens per Lamp: N/A
Luminaire Lumens: 14010.0 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.18 / 1.35
Luminous Opening: Rectangular (W 0.5' x L: 7.6' x H: 0')
CIE Type: Direct

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°	14245	14245	14245
5°	14378	14352	14260
10°	14438	14305	14078
15°	14489	14163	13647
20°	14558	13971	13454
25°	14602	13791	13356
30°	14629	13674	13022
35°	14649	13511	12678
40°	14654	13300	12425
45°	14631	13071	10750
50°	14563	12847	9314
55°	14489	12543	8927
60°	14416	12184	8822
65°	14228	11743	8823
70°	13934	11286	8829
75°	13037	10399	8573
80°	11644	8998	7636
85°	10696	6929	5574



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	477.7	3.4
10°-20°	1355.8	9.7
20°-30°	2043.8	14.6
30°-40°	2453.9	17.5
40°-50°	2499.2	17.8
50°-60°	2193.3	15.7
60°-70°	1706.1	12.2
70°-80°	1014.7	7.2
80°-90°	265.6	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°	3877.3	27.7
0°-40°	6331.1	45.2
0°-60°	11023.6	78.7
0°-90°	14010.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14010.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5029	5029	5029	5029	5029	
5°	5057	5010	5047	5029	5015	481
15°	4941	4871	4830	4709	4654	1396
25°	4672	4565	4412	4297	4273	2154
35°	4236	4102	3907	3722	3666	2651
45°	3652	3532	3263	3013	2684	2816
55°	2934	2846	2540	2035	1808	2624
65°	2123	2039	1752	1381	1316	2103
75°	1191	1131	950	769	783	1259
85°	329	292	213	172	172	361
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5028.9	5028.9	5028.9	5028.9	5028.9
2.5°	5061.3	5010.3	5047.4	5038.2	5015.0
5°	5056.7	5010.3	5047.4	5028.9	5015.0
7.5°	5042.8	4996.4	5019.6	4991.8	4973.3
10°	5019.6	4968.6	4973.3	4926.9	4894.5
12.5°	4987.2	4926.9	4913.0	4820.3	4774.0
15°	4940.8	4871.3	4829.6	4709.1	4653.5
17.5°	4889.8	4811.0	4736.9	4602.5	4560.8
20°	4829.6	4736.9	4634.9	4495.9	4463.4
22.5°	4755.4	4658.1	4523.7	4398.5	4380.0
25°	4672.0	4565.4	4412.4	4296.6	4273.4
27.5°	4579.3	4454.2	4296.6	4180.7	4152.9
30°	4472.7	4342.9	4180.7	4046.3	3981.4
32.5°	4361.5	4227.0	4050.9	3879.4	3819.2
35°	4236.3	4101.9	3907.2	3721.8	3666.2
37.5°	4106.5	3967.5	3758.9	3564.3	3517.9
40°	3962.9	3828.4	3596.7	3406.7	3360.3
42.5°	3814.5	3684.8	3434.5	3244.4	3170.3
45°	3652.3	3531.8	3263.0	3012.7	2683.6
47.5°	3480.8	3369.6	3091.5	2720.7	2340.6
50°	3304.7	3202.7	2915.4	2461.1	2113.5
52.5°	3123.9	3031.2	2734.6	2234.0	1955.9
55°	2933.9	2845.8	2539.9	2034.7	1807.6
57.5°	2743.9	2655.8	2354.5	1854.0	1682.5
60°	2544.6	2461.1	2150.6	1687.1	1557.3
62.5°	2349.9	2257.2	1951.3	1534.2	1441.5
65°	2122.8	2039.4	1752.0	1381.2	1316.3
67.5°	1909.6	1821.5	1557.3	1232.9	1195.8
70°	1682.5	1594.4	1362.7	1079.9	1066.0
72.5°	1441.5	1371.9	1158.7	931.6	922.3
75°	1191.2	1130.9	950.2	769.4	783.3
77.5°	945.5	908.4	750.9	616.4	625.7
80°	713.8	686.0	551.6	458.9	468.1
82.5°	509.8	486.7	375.4	305.9	305.9
85°	329.1	292.0	213.2	171.5	171.5
87.5°	129.8	106.6	64.9	18.5	9.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)