

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: P197391

Luminaire Tested: **8WSL-LD2-130-UNV-L840-CD2-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P197391
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-LD2-130-UNV-L840-CD2-U
Description: 8FT. Linear Wavestream System, L840
Light Source: (476) 4000K CCT, 80 CRI LEDS
EL236N0119D840
Ballast/Driver: OSRAM
OT85W1202772A0DIML

Summary

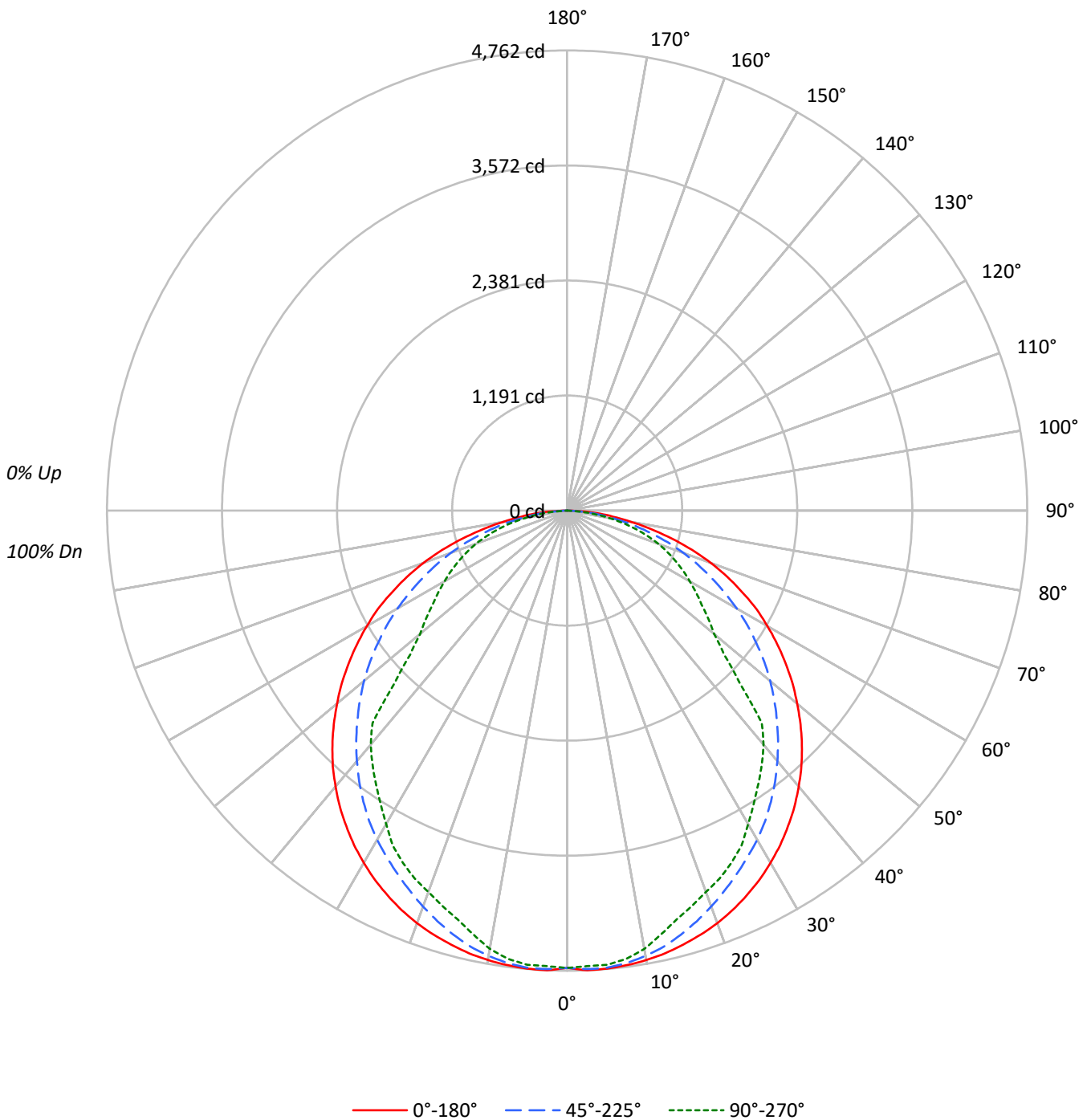
Lumens per Lamp: N/A
Luminaire Lumens: 13182.0 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.18 / 1.35
Luminous Opening: Rectangular (W 0.5' x L: 7.6' x H: 0')
CIE Type: Direct

Input Watts (W): 124.7
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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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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84				84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70				70
3	90	79	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59				59
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50				50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43				43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38				38
7	65	51	43	36	63	51	42	36	49	42	36	48	41	36	46	40	35	33				33
8	60	47	38	33	59	46	38	32	45	37	32	44	37	32	42	36	32	30				30
9	57	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27				27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24				24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13403	13403	13403
5°	13528	13504	13417
10°	13585	13459	13246
15°	13633	13326	12840
20°	13698	13146	12659
25°	13739	12976	12567
30°	13765	12866	12253
35°	13783	12713	11928
40°	13787	12513	11691
45°	13766	12299	10115
50°	13702	12088	8763
55°	13633	11802	8399
60°	13564	11464	8301
65°	13387	11049	8301
70°	13110	10618	8307
75°	12266	9784	8066
80°	10955	8466	7186
85°	10062	6520	5246



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	449.5	3.4
10°-20°	1275.6	9.7
20°-30°	1923.0	14.6
30°-40°	2308.8	17.5
40°-50°	2351.5	17.8
50°-60°	2063.7	15.7
60°-70°	1605.3	12.2
70°-80°	954.7	7.2
80°-90°	249.9	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°	3648.1	27.7
0°-40°	5957.0	45.2
0°-60°	10372.1	78.7
0°-90°	13182.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13182.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4732	4732	4732	4732	4732	
5°	4758	4714	4749	4732	4719	453
15°	4649	4583	4544	4431	4378	1314
25°	4396	4296	4152	4043	4021	2027
35°	3986	3860	3676	3502	3450	2495
45°	3436	3323	3070	2835	2525	2650
55°	2760	2678	2390	1914	1701	2469
65°	1997	1919	1648	1300	1238	1978
75°	1121	1064	894	724	737	1185
85°	310	275	201	161	161	339
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4731.7	4731.7	4731.7	4731.7	4731.7
2.5°	4762.2	4714.2	4749.1	4740.4	4718.6
5°	4757.8	4714.2	4749.1	4731.7	4718.6
7.5°	4744.8	4701.1	4723.0	4696.8	4679.3
10°	4723.0	4675.0	4679.3	4635.7	4605.2
12.5°	4692.4	4635.7	4622.7	4535.4	4491.8
15°	4648.8	4583.4	4544.2	4430.8	4378.4
17.5°	4600.8	4526.7	4456.9	4330.5	4291.2
20°	4544.2	4456.9	4361.0	4230.2	4199.6
22.5°	4474.4	4382.8	4256.3	4138.6	4121.1
25°	4395.9	4295.6	4151.7	4042.6	4020.8
27.5°	4308.7	4190.9	4042.6	3933.6	3907.4
30°	4208.4	4086.2	3933.6	3807.1	3746.1
32.5°	4103.7	3977.2	3811.5	3650.1	3593.5
35°	3985.9	3859.5	3676.3	3501.9	3449.5
37.5°	3863.8	3733.0	3536.8	3353.6	3310.0
40°	3728.6	3602.2	3384.1	3205.3	3161.7
42.5°	3589.1	3467.0	3231.5	3052.7	2982.9
45°	3436.5	3323.1	3070.1	2834.6	2525.0
47.5°	3275.1	3170.4	2908.8	2559.9	2202.3
50°	3109.4	3013.4	2743.1	2315.7	1988.6
52.5°	2939.3	2852.1	2573.0	2102.0	1840.3
55°	2760.5	2677.6	2389.8	1914.5	1700.8
57.5°	2581.7	2498.8	2215.4	1744.4	1583.0
60°	2394.2	2315.7	2023.5	1587.4	1465.3
62.5°	2211.0	2123.8	1836.0	1443.5	1356.3
65°	1997.3	1918.8	1648.5	1299.6	1238.5
67.5°	1796.7	1713.9	1465.3	1160.0	1125.1
70°	1583.0	1500.2	1282.1	1016.1	1003.0
72.5°	1356.3	1290.9	1090.2	876.6	867.8
75°	1120.8	1064.1	894.0	723.9	737.0
77.5°	889.6	854.8	706.5	580.0	588.7
80°	671.6	645.4	519.0	431.7	440.5
82.5°	479.7	457.9	353.2	287.8	287.8
85°	309.6	274.7	200.6	161.4	161.4
87.5°	122.1	100.3	61.1	17.4	8.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)