

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: P197383

Luminaire Tested: **8WSL-LD2-110-UNV-L840-CD2-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P197383
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-LD2-110-UNV-L840-CD2-U
Description: 8FT. Linear Wavestream System, L840
Light Source: (476) 4000K CCT, 80 CRI LEDS
EL236N0119D840
Ballast/Driver: OSRAM
OT50W

Summary

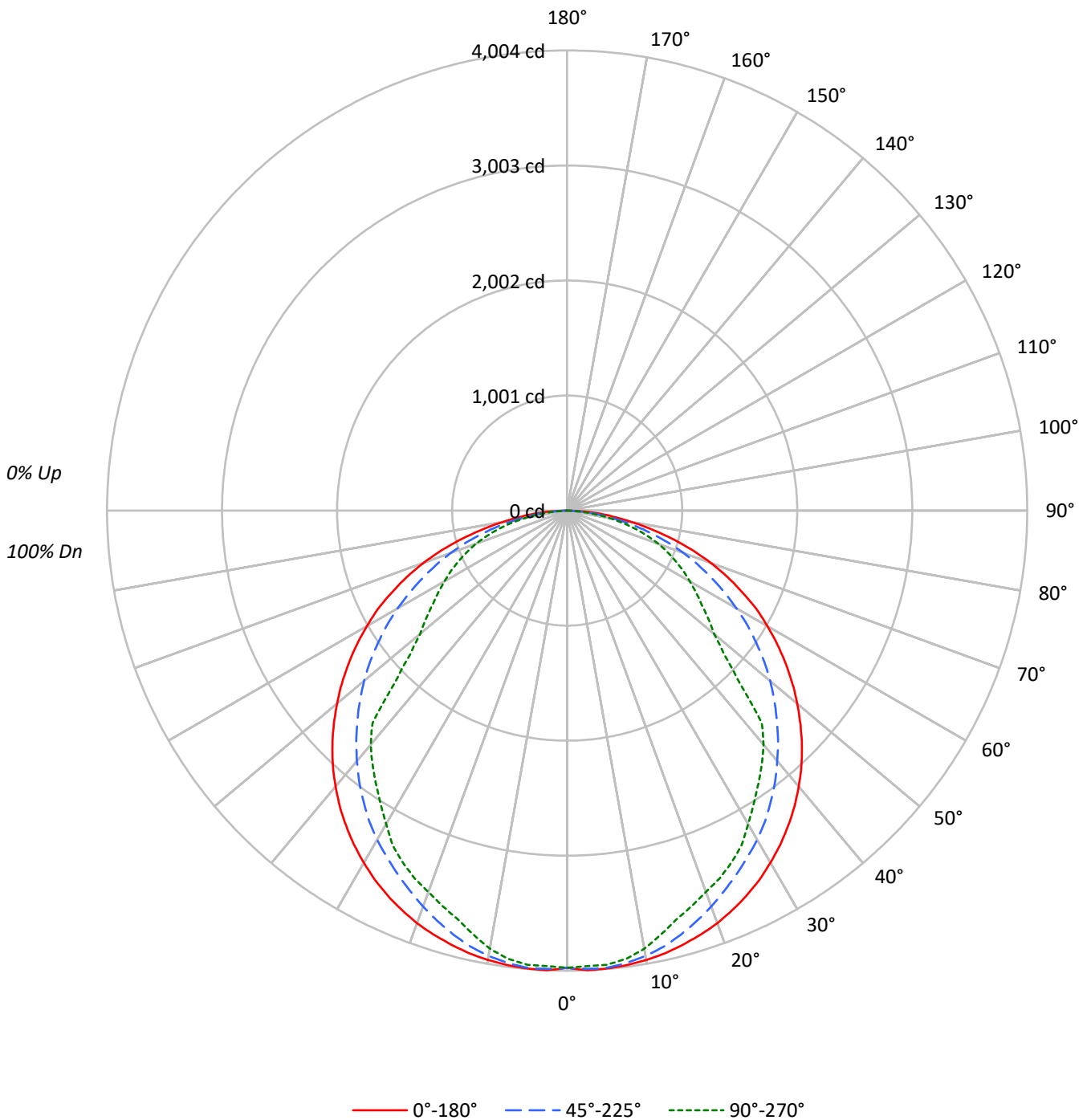
Lumens per Lamp: N/A
Luminaire Lumens: 11082.0 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.18 / 1.35
Luminous Opening: Rectangular (W 0.5' x L: 7.6' x H: 0')
CIE Type: Direct

Input Watts (W): 98.9
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°	11268	11268	11268
5°	11373	11352	11280
10°	11420	11315	11136
15°	11461	11203	10794
20°	11516	11051	10643
25°	11550	10909	10565
30°	11572	10817	10301
35°	11588	10687	10028
40°	11591	10520	9829
45°	11573	10339	8504
50°	11519	10162	7367
55°	11461	9922	7061
60°	11403	9637	6979
65°	11254	9288	6979
70°	11022	8927	6983
75°	10312	8226	6781
80°	9210	7117	6040
85°	8460	5480	4410



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	377.9	3.4
10°-20°	1072.4	9.7
20°-30°	1616.7	14.6
30°-40°	1941.0	17.5
40°-50°	1976.9	17.8
50°-60°	1734.9	15.7
60°-70°	1349.5	12.2
70°-80°	802.6	7.2
80°-90°	210.1	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°	3067.0	27.7
0°-40°	5008.0	45.2
0°-60°	8719.8	78.7
0°-90°	11082.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11082.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3978	3978	3978	3978	3978	
5°	4000	3963	3992	3978	3967	381
15°	3908	3853	3820	3725	3681	1104
25°	3696	3611	3490	3399	3380	1704
35°	3351	3245	3091	2944	2900	2097
45°	2889	2794	2581	2383	2123	2228
55°	2321	2251	2009	1610	1430	2075
65°	1679	1613	1386	1092	1041	1663
75°	942	895	752	609	620	996
85°	260	231	169	136	136	285
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3977.9	3977.9	3977.9	3977.9	3977.9
2.5°	4003.5	3963.2	3992.5	3985.2	3966.9
5°	3999.9	3963.2	3992.5	3977.9	3966.9
7.5°	3988.9	3952.2	3970.5	3948.6	3933.9
10°	3970.5	3930.2	3933.9	3897.2	3871.6
12.5°	3944.9	3897.2	3886.2	3812.9	3776.2
15°	3908.2	3853.2	3820.2	3724.9	3680.9
17.5°	3867.9	3805.6	3746.9	3640.6	3607.6
20°	3820.2	3746.9	3666.2	3556.3	3530.6
22.5°	3761.6	3684.6	3578.3	3479.3	3464.6
25°	3695.6	3611.3	3490.3	3398.6	3380.3
27.5°	3622.3	3523.3	3398.6	3307.0	3285.0
30°	3537.9	3435.3	3307.0	3200.6	3149.3
32.5°	3449.9	3343.6	3204.3	3068.7	3021.0
35°	3351.0	3244.6	3090.6	2944.0	2900.0
37.5°	3248.3	3138.3	2973.3	2819.3	2782.7
40°	3134.6	3028.3	2845.0	2694.7	2658.0
42.5°	3017.3	2914.7	2716.7	2566.4	2507.7
45°	2889.0	2793.7	2581.0	2383.1	2122.8
47.5°	2753.4	2665.4	2445.4	2152.1	1851.5
50°	2614.0	2533.4	2306.1	1946.8	1671.8
52.5°	2471.1	2397.7	2163.1	1767.1	1547.2
55°	2320.7	2251.1	2009.1	1609.5	1429.8
57.5°	2170.4	2100.8	1862.5	1466.5	1330.8
60°	2012.8	1946.8	1701.1	1334.5	1231.9
62.5°	1858.8	1785.5	1543.5	1213.5	1140.2
65°	1679.1	1613.1	1385.8	1092.5	1041.2
67.5°	1510.5	1440.8	1231.9	975.2	945.9
70°	1330.8	1261.2	1077.9	854.2	843.2
72.5°	1140.2	1085.2	916.6	736.9	729.6
75°	942.2	894.6	751.6	608.6	619.6
77.5°	747.9	718.6	593.9	487.6	494.9
80°	564.6	542.6	436.3	363.0	370.3
82.5°	403.3	385.0	297.0	242.0	242.0
85°	260.3	231.0	168.6	135.7	135.7
87.5°	102.7	84.3	51.3	14.7	7.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)