

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: P197399

Luminaire Tested: **8WSL-LD2-150-UNV-L840-CD2-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P197399
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-L840-CD2-U
Description: 8FT. Linear Wavestream System, L840
Light Source: (476) 4000K CCT, 80 CRI LEDS
EL236N0119D840
Ballast/Driver: OSRAM
OT85W1202772A0DIML

Summary

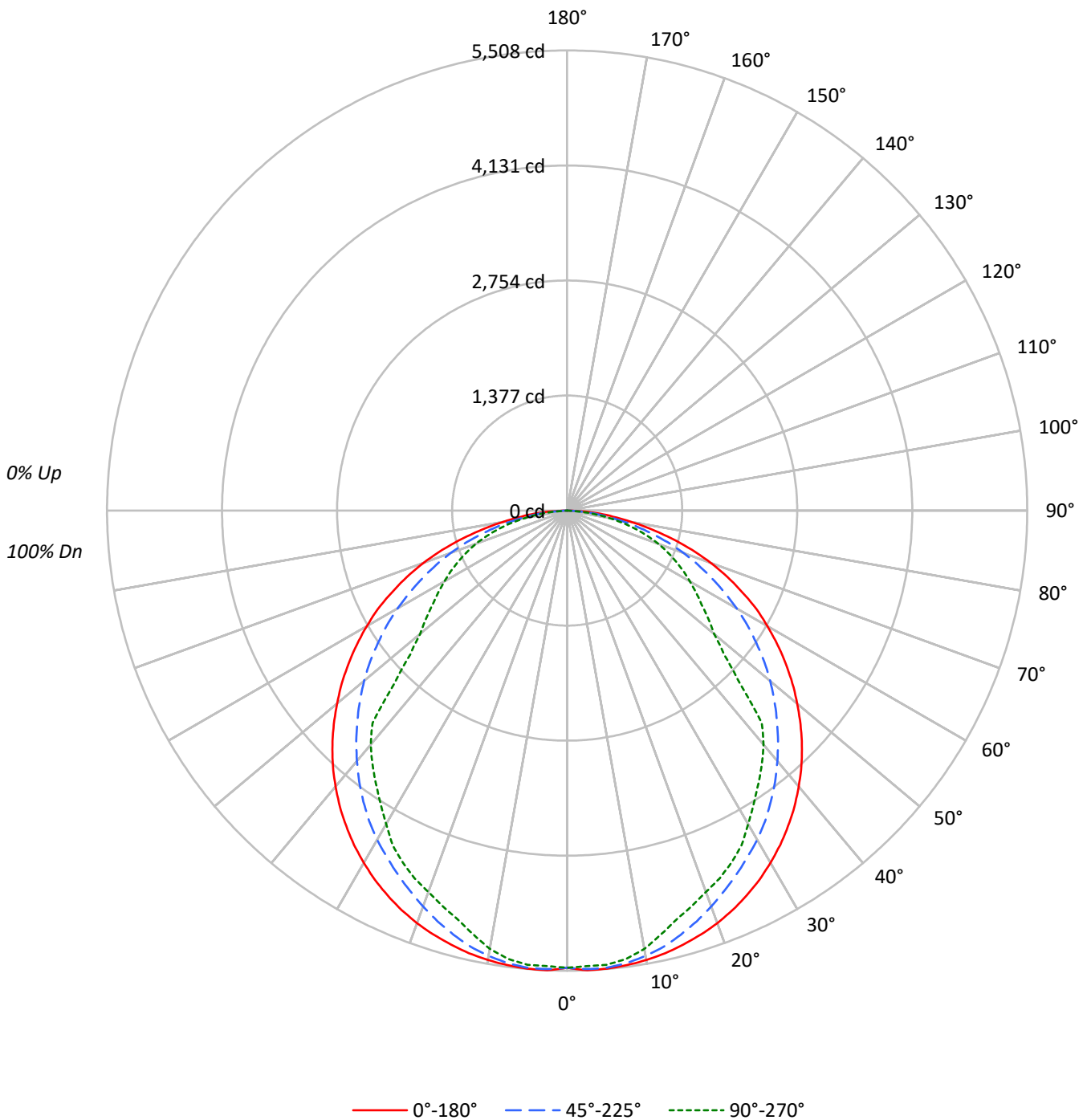
Lumens per Lamp: N/A
Luminaire Lumens: 15246.0 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.18 / 1.35
Luminous Opening: Rectangular (W 0.5' x L: 7.6' x H: 0')
CIE Type: Direct

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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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°	15501	15501	15501
5°	15647	15618	15518
10°	15712	15567	15320
15°	15767	15413	14850
20°	15843	15204	14642
25°	15890	15007	14535
30°	15920	14881	14171
35°	15942	14703	13796
40°	15946	14473	13522
45°	15922	14225	11699
50°	15848	13981	10136
55°	15767	13650	9715
60°	15688	13258	9601
65°	15484	12779	9601
70°	15164	12281	9608
75°	14187	11316	9329
80°	12670	9791	8310
85°	11638	7540	6065



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	519.9	3.4
10°-20°	1475.4	9.7
20°-30°	2224.1	14.6
30°-40°	2670.3	17.5
40°-50°	2719.7	17.8
50°-60°	2386.8	15.7
60°-70°	1856.6	12.2
70°-80°	1104.2	7.2
80°-90°	289.0	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°	4219.3	27.7
0°-40°	6889.7	45.2
0°-60°	11996.2	78.7
0°-90°	15246.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15246.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5472	5472	5472	5472	5472	
5°	5503	5452	5493	5472	5457	524
15°	5377	5301	5256	5124	5064	1520
25°	5084	4968	4802	4676	4650	2344
35°	4610	4464	4252	4050	3990	2885
45°	3974	3843	3551	3278	2920	3065
55°	3193	3097	2764	2214	1967	2855
65°	2310	2219	1907	1503	1432	2288
75°	1296	1231	1034	837	852	1371
85°	358	318	232	187	187	392
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5472.5	5472.5	5472.5	5472.5	5472.5
2.5°	5507.9	5452.4	5492.7	5482.6	5457.4
5°	5502.8	5452.4	5492.7	5472.5	5457.4
7.5°	5487.7	5437.2	5462.5	5432.2	5412.0
10°	5462.5	5407.0	5412.0	5361.6	5326.3
12.5°	5427.2	5361.6	5346.5	5245.6	5195.1
15°	5376.7	5301.1	5255.7	5124.5	5064.0
17.5°	5321.2	5235.5	5154.8	5008.5	4963.1
20°	5255.7	5154.8	5043.8	4892.5	4857.2
22.5°	5175.0	5069.0	4922.8	4786.6	4766.4
25°	5084.2	4968.2	4801.7	4675.6	4650.4
27.5°	4983.3	4847.1	4675.6	4549.5	4519.3
30°	4867.3	4726.1	4549.5	4403.3	4332.6
32.5°	4746.2	4600.0	4408.3	4221.7	4156.1
35°	4610.1	4463.8	4251.9	4050.2	3989.7
37.5°	4468.8	4317.5	4090.5	3878.7	3828.3
40°	4312.5	4166.2	3914.0	3707.2	3656.8
42.5°	4151.1	4009.8	3737.5	3530.7	3450.0
45°	3974.5	3843.4	3550.9	3278.5	2920.4
47.5°	3787.9	3666.9	3364.2	2960.7	2547.1
50°	3596.2	3485.3	3172.6	2678.3	2300.0
52.5°	3399.5	3298.7	2975.9	2431.1	2128.5
55°	3192.7	3096.9	2764.0	2214.2	1967.1
57.5°	2985.9	2890.1	2562.3	2017.5	1830.9
60°	2769.1	2678.3	2340.3	1836.0	1694.7
62.5°	2557.2	2456.3	2123.4	1669.5	1568.6
65°	2310.1	2219.3	1906.6	1503.1	1432.4
67.5°	2078.1	1982.2	1694.7	1341.7	1301.3
70°	1830.9	1735.1	1482.9	1175.2	1160.1
72.5°	1568.6	1493.0	1261.0	1013.8	1003.7
75°	1296.3	1230.7	1034.0	837.3	852.4
77.5°	1028.9	988.6	817.1	670.8	680.9
80°	776.7	746.5	600.2	499.3	509.4
82.5°	554.8	529.6	408.5	332.9	332.9
85°	358.1	317.8	232.0	186.6	186.6
87.5°	141.2	116.0	70.6	20.2	10.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)