

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: P197392

Luminaire Tested: **8WSL-LD2-130-UNV-L850-CD2-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P197392
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-L850-CD2-U
Description: 8FT. Linear Wavestream System, L850
Light Source: (476) 5000K CCT, 80 CRI LEDS
EL236N0119D850
Ballast/Driver: OSRAM
OT85W1202772A0DIML

Summary

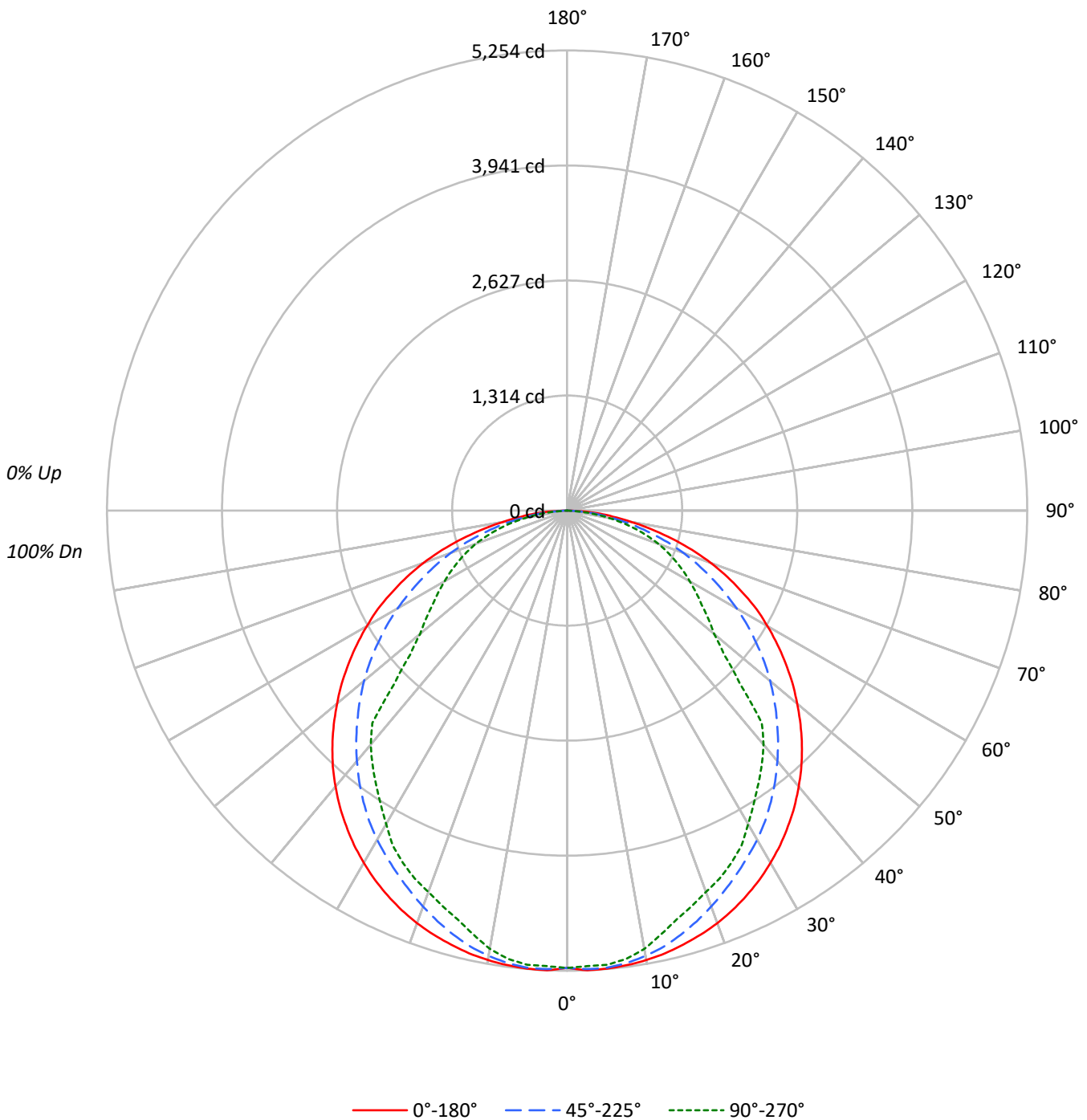
Lumens per Lamp: N/A
Luminaire Lumens: 14544.3 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.18 / 1.35
Luminous Opening: Rectangular (W 0.5' x L: 7.6' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	14788	14788	14788
5°	14927	14899	14803
10°	14988	14850	14615
15°	15042	14703	14167
20°	15114	14504	13968
25°	15159	14317	13866
30°	15187	14196	13519
35°	15208	14026	13161
40°	15212	13807	12899
45°	15189	13570	11160
50°	15118	13337	9669
55°	15042	13022	9268
60°	14965	12648	9159
65°	14770	12191	9159
70°	14465	11716	9166
75°	13534	10796	8900
80°	12087	9340	7928
85°	11102	7192	5785



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	495.9	3.4
10°-20°	1407.5	9.7
20°-30°	2121.7	14.6
30°-40°	2547.4	17.5
40°-50°	2594.5	17.8
50°-60°	2276.9	15.7
60°-70°	1771.1	12.2
70°-80°	1053.4	7.2
80°-90°	275.7	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°	4025.1	27.7
0°-40°	6572.6	45.2
0°-60°	11444.0	78.7
0°-90°	14544.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14544.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5221	5221	5221	5221	5221	
5°	5250	5201	5240	5221	5206	500
15°	5129	5057	5014	4889	4831	1450
25°	4850	4740	4581	4460	4436	2236
35°	4398	4258	4056	3864	3806	2752
45°	3792	3666	3387	3128	2786	2924
55°	3046	2954	2637	2112	1877	2724
65°	2204	2117	1819	1434	1366	2183
75°	1237	1174	986	799	813	1307
85°	342	303	221	178	178	374
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5220.7	5220.7	5220.7	5220.7	5220.7
2.5°	5254.3	5201.4	5239.9	5230.3	5206.2
5°	5249.5	5201.4	5239.9	5220.7	5206.2
7.5°	5235.1	5187.0	5211.0	5182.2	5162.9
10°	5211.0	5158.1	5162.9	5114.8	5081.1
12.5°	5177.4	5114.8	5100.4	5004.1	4956.0
15°	5129.2	5057.1	5013.8	4888.7	4830.9
17.5°	5076.3	4994.5	4917.5	4778.0	4734.7
20°	5013.8	4917.5	4811.7	4667.3	4633.6
22.5°	4936.8	4835.7	4696.2	4566.3	4547.0
25°	4850.2	4739.5	4580.7	4460.4	4436.4
27.5°	4753.9	4624.0	4460.4	4340.1	4311.3
30°	4643.3	4508.5	4340.1	4200.6	4133.2
32.5°	4527.8	4388.2	4205.4	4027.4	3964.8
35°	4397.9	4258.3	4056.2	3863.8	3806.0
37.5°	4263.1	4118.8	3902.3	3700.2	3652.1
40°	4114.0	3974.4	3733.9	3536.6	3488.5
42.5°	3960.0	3825.3	3565.4	3368.2	3291.2
45°	3791.6	3666.5	3387.4	3127.6	2786.0
47.5°	3613.6	3498.1	3209.4	2824.5	2429.9
50°	3430.7	3324.9	3026.5	2555.0	2194.1
52.5°	3243.1	3146.8	2838.9	2319.2	2030.5
55°	3045.8	2954.4	2636.8	2112.3	1876.6
57.5°	2848.5	2757.1	2444.3	1924.7	1746.6
60°	2641.6	2555.0	2232.6	1751.4	1616.7
62.5°	2439.5	2343.3	2025.7	1592.7	1496.4
65°	2203.7	2117.1	1818.8	1433.9	1366.5
67.5°	1982.4	1891.0	1616.7	1279.9	1241.4
70°	1746.6	1655.2	1414.6	1121.1	1106.7
72.5°	1496.4	1424.3	1202.9	967.1	957.5
75°	1236.6	1174.0	986.4	798.7	813.2
77.5°	981.6	943.1	779.5	640.0	649.6
80°	741.0	712.1	572.6	476.4	486.0
82.5°	529.3	505.2	389.7	317.6	317.6
85°	341.6	303.1	221.3	178.0	178.0
87.5°	134.7	110.7	67.4	19.2	9.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)