

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: P#

Luminaire Tested: **8SNLED-LD5-200HL-SLN-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27402)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNLED-LD5-200HL-SLN-UNV-L850-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

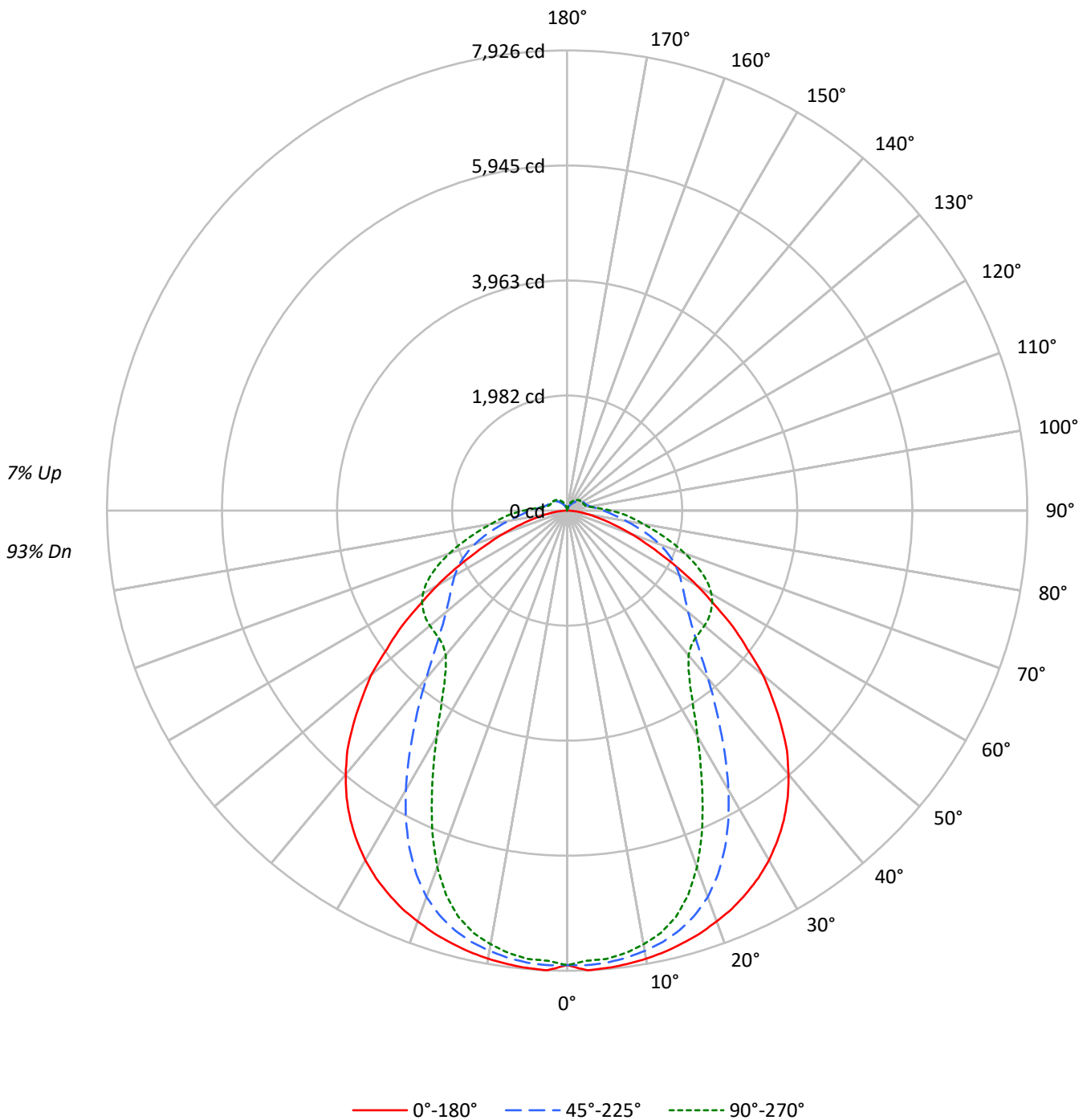
Lumens per Lamp: N/A
Luminaire Lumens: 19685.0 lumens
Efficiency: N/A
Efficacy: 124.6 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 158
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



TEST NUMBER: P#
CATALOG NUMBER: 8SNLED-LD5-200HL-SLN-UNV-L850-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-SLN-UNV-L850-CD1-U

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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	93
1	107	102	97	93	103	99	94	91	93	90	87	88	85	83	83	81	79	76
2	97	89	82	76	94	86	80	75	81	76	72	77	73	69	73	70	66	64
3	89	78	70	64	86	76	69	63	72	66	61	68	63	59	65	61	57	54
4	82	70	61	55	79	68	60	54	65	58	52	61	55	51	58	53	49	47
5	75	63	54	47	73	61	53	47	58	51	46	55	49	44	53	48	43	41
6	70	57	48	42	67	55	47	41	53	46	40	51	44	39	48	43	39	36
7	65	52	43	37	63	51	42	37	48	41	36	46	40	35	44	39	35	32
8	61	47	39	33	59	46	39	33	44	37	32	43	36	32	41	35	31	29
9	57	44	36	30	55	43	35	30	41	34	29	40	33	29	38	33	28	27
10	53	40	33	28	52	40	32	27	38	32	27	37	31	27	35	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	31627	31627	31627
5°	32035	30958	30445
10°	32068	30130	29192
15°	32125	29147	27527
20°	32187	27669	24721
25°	32251	25377	20935
30°	32151	22350	17219
35°	31752	19034	14430
40°	30887	16137	13045
45°	29322	14041	12946
50°	27164	12851	13400
55°	24003	12370	13869
60°	20342	12213	14060
65°	16458	11965	13622
70°	13332	11374	12563
75°	10187	10324	11148
80°	7708	9308	9917
85°	5487	8832	9122



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-SLN-UNV-L850-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	740.6	3.8
10°-20°	2093.1	10.6
20°-30°	2926.0	14.9
30°-40°	3035.0	15.4
40°-50°	2803.9	14.2
50°-60°	2503.3	12.7
60°-70°	2028.8	10.3
70°-80°	1349.4	6.9
80°-90°	772.7	3.9
90°-100°	427.5	2.2
100°-110°	289.5	1.5
110°-120°	241.1	1.2
120°-130°	196.0	1.0
130°-140°	141.3	0.7
140°-150°	85.2	0.4
150°-160°	41.0	0.2
160°-170°	10.6	0.1
170°-180°	0.0	0.0
0°-30°	5759.7	29.3
0°-40°	8794.8	44.7
0°-60°	14102.0	71.6
0°-90°	18252.9	92.7
90°-120°	958.1	4.9
90°-150°	1380.6	7.0
90°-180°	1432.0	7.3
0°-180°	19685.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7828	7828	7828	7828	7828	
5°	7909	7776	7817	7763	7753	752
15°	7712	7549	7484	7314	7242	2179
25°	7287	6964	6426	5752	5518	3358
35°	6508	5793	4606	3868	3694	4060
45°	5212	4130	3136	3024	3116	4007
55°	3483	2633	2449	2847	3024	3097
65°	1779	1592	1994	2442	2572	1798
75°	691	864	1344	1646	1714	757
85°	140	401	793	1014	1041	160
90°	7	282	626	755	748	11
95°	7	238	497	531	514	5
105°	3	208	357	347	330	4
115°	3	187	316	313	303	3
125°	3	160	279	293	286	4
135°	7	119	221	258	258	5
145°	7	75	153	201	214	4
155°	7	48	95	126	153	3
165°	7	27	48	61	82	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-SLN-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7827.5	7827.5	7827.5	7827.5	7827.5
2.5°	7926.2	7796.9	7837.7	7803.7	7759.5
5°	7909.2	7776.5	7817.3	7762.9	7752.7
7.5°	7878.6	7745.9	7769.7	7705.1	7688.1
10°	7837.7	7698.3	7701.7	7609.8	7586.0
12.5°	7783.3	7630.2	7609.8	7484.0	7449.9
15°	7711.9	7548.6	7484.0	7313.9	7242.4
17.5°	7633.6	7443.1	7310.5	7048.5	6936.3
20°	7528.2	7313.9	7082.5	6684.5	6534.9
22.5°	7422.7	7157.4	6786.6	6255.9	6055.2
25°	7286.7	6963.5	6426.0	5752.4	5517.7
27.5°	7133.6	6735.6	6011.0	5235.4	4983.6
30°	6953.3	6460.0	5555.1	4728.5	4490.4
32.5°	6742.4	6150.5	5075.5	4272.7	4051.5
35°	6507.6	5793.3	4606.0	3867.8	3694.4
37.5°	6238.9	5402.1	4170.6	3541.3	3429.0
40°	5932.7	4976.8	3769.2	3289.5	3252.1
42.5°	5602.8	4561.8	3425.6	3126.3	3160.3
45°	5211.6	4129.8	3136.5	3024.2	3116.0
47.5°	4799.9	3708.0	2901.7	2966.4	3099.0
50°	4401.9	3316.8	2718.0	2929.0	3085.4
52.5°	3908.7	2966.4	2571.8	2894.9	3065.0
55°	3483.4	2633.0	2449.3	2847.3	3024.2
57.5°	2993.6	2333.6	2340.4	2786.1	2963.0
60°	2585.4	2061.5	2235.0	2701.0	2871.1
62.5°	2170.3	1816.6	2119.3	2588.8	2741.9
65°	1779.1	1592.0	1993.5	2442.5	2571.8
67.5°	1452.6	1387.9	1850.6	2265.6	2374.5
70°	1177.0	1200.8	1694.1	2068.3	2160.1
72.5°	904.9	1027.3	1524.0	1857.4	1935.6
75°	690.6	864.1	1343.7	1646.5	1714.5
77.5°	510.3	721.2	1180.4	1456.0	1513.8
80°	360.6	595.3	1027.3	1289.3	1333.5
82.5°	241.5	489.9	901.5	1139.6	1180.4
85°	139.5	401.4	792.6	1013.7	1041.0
87.5°	57.8	333.4	704.2	884.5	898.1
90°	6.8	282.3	625.9	755.2	748.4
92.5°	6.8	255.1	557.9	632.7	615.7
95°	6.8	238.1	496.7	530.7	513.7
97.5°	6.8	227.9	442.2	455.8	438.8
100°	3.4	221.1	404.8	404.8	387.8
102.5°	3.4	214.3	377.6	367.4	353.8
105°	3.4	207.5	357.2	347.0	330.0
107.5°	3.4	204.1	343.6	333.4	316.4
110°	3.4	197.3	333.4	323.2	309.6



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-200HL-SLN-UNV-L850-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.4	193.9	326.6	319.8	302.8
115°	3.4	187.1	316.4	313.0	302.8
117.5°	3.4	180.3	309.6	309.6	299.4
120°	3.4	173.5	299.4	306.2	296.0
122.5°	3.4	166.7	289.2	299.4	289.2
125°	3.4	159.9	278.9	292.6	285.8
127.5°	6.8	149.7	265.3	285.8	278.9
130°	3.4	139.5	251.7	278.9	275.5
132.5°	6.8	129.3	238.1	268.7	268.7
135°	6.8	119.1	221.1	258.5	258.5
137.5°	6.8	105.5	204.1	244.9	248.3
140°	6.8	95.3	187.1	231.3	238.1
142.5°	6.8	85.0	170.1	217.7	227.9
145°	6.8	74.8	153.1	200.7	214.3
147.5°	6.8	68.0	136.1	180.3	200.7
150°	6.8	57.8	122.5	163.3	183.7
152.5°	6.8	51.0	108.9	146.3	170.1
155°	6.8	47.6	95.3	125.9	153.1
157.5°	6.8	40.8	81.6	108.9	136.1
160°	6.8	34.0	68.0	95.3	115.7
162.5°	6.8	30.6	57.8	78.2	102.1
165°	6.8	27.2	47.6	61.2	81.6
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)