

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-LD5-68SL-SLN-UNV-L830-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-LD5-68SL-SLN-UNV-L830-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

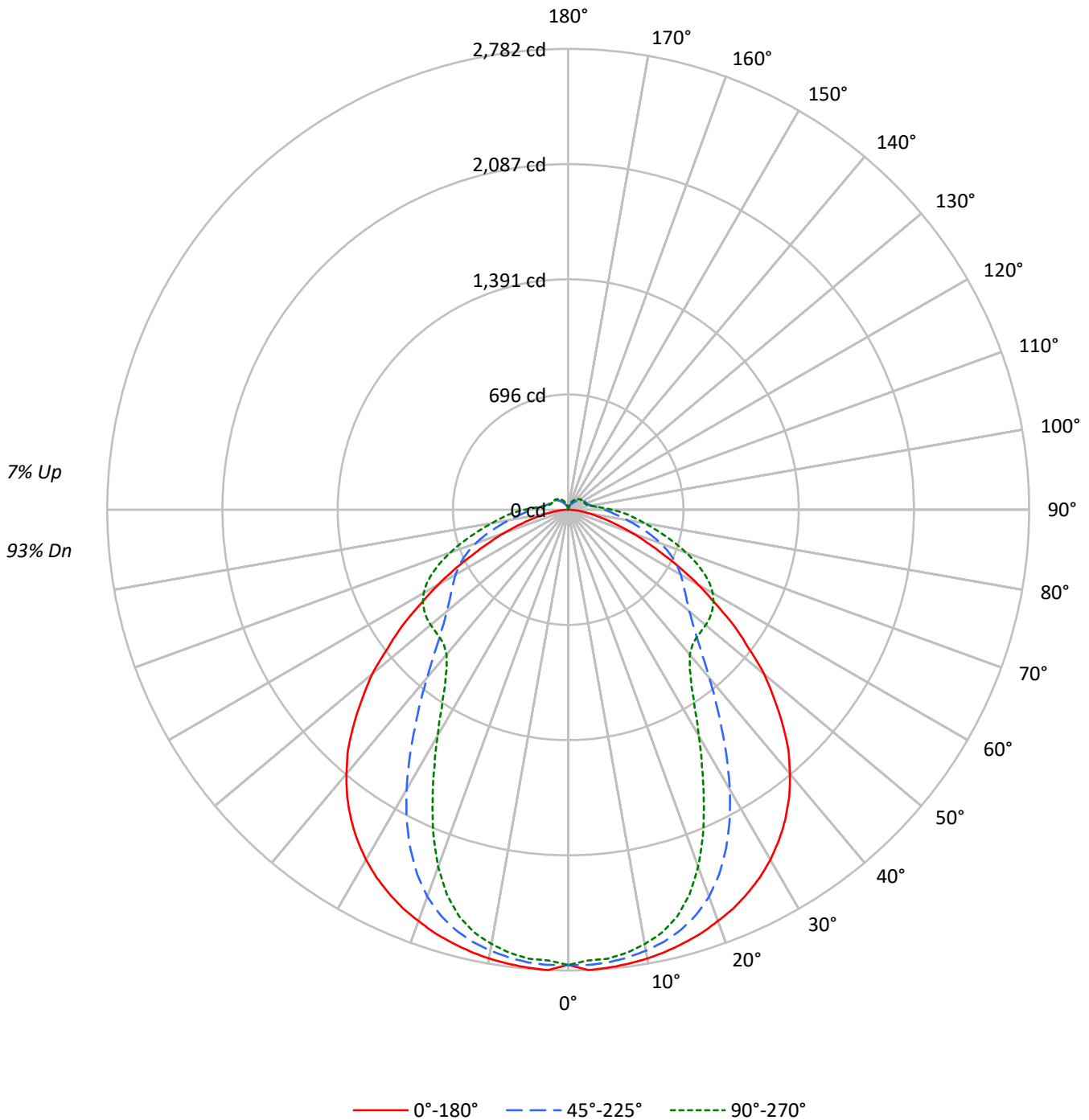
Lumens per Lamp: N/A
Luminaire Lumens: 6909.0 lumens
Efficiency: N/A
Efficacy: 138.2 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 50
Input Voltage (V): NR
Input Current (A_{in}): 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	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°	11100	11100	11100
5°	11244	10865	10685
10°	11255	10575	10246
15°	11275	10230	9661
20°	11297	9711	8677
25°	11319	8907	7348
30°	11284	7844	6043
35°	11144	6681	5064
40°	10841	5664	4578
45°	10291	4928	4544
50°	9534	4511	4703
55°	8425	4341	4868
60°	7139	4286	4935
65°	5776	4200	4781
70°	4679	3992	4409
75°	3576	3623	3913
80°	2706	3267	3480
85°	1927	3100	3202



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.9	3.8
10°-20°	734.6	10.6
20°-30°	1027.0	14.9
30°-40°	1065.2	15.4
40°-50°	984.1	14.2
50°-60°	878.6	12.7
60°-70°	712.0	10.3
70°-80°	473.6	6.9
80°-90°	271.2	3.9
90°-100°	150.0	2.2
100°-110°	101.6	1.5
110°-120°	84.6	1.2
120°-130°	68.8	1.0
130°-140°	49.6	0.7
140°-150°	29.9	0.4
150°-160°	14.4	0.2
160°-170°	3.7	0.1
170°-180°	0.0	0.0
0°-30°	2021.5	29.3
0°-40°	3086.8	44.7
0°-60°	4949.5	71.6
0°-90°	6406.3	92.7
90°-120°	336.3	4.9
90°-150°	484.6	7.0
90°-180°	503.0	7.3
0°-180°	6909.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2747	2747	2747	2747	2747	
5°	2776	2729	2744	2725	2721	264
15°	2707	2649	2627	2567	2542	765
25°	2558	2444	2255	2019	1937	1178
35°	2284	2033	1617	1358	1297	1425
45°	1829	1450	1101	1061	1094	1406
55°	1223	924	860	999	1061	1087
65°	624	559	700	857	903	631
75°	242	303	472	578	602	266
85°	49	141	278	356	365	56
90°	2	99	220	265	263	4
95°	2	84	174	186	180	2
105°	1	73	125	122	116	1
115°	1	66	111	110	106	1
125°	1	56	98	103	100	1
135°	2	42	78	91	91	2
145°	2	26	54	70	75	2
155°	2	17	33	44	54	1
165°	2	10	17	22	29	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-68SL-SLN-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2747.3	2747.3	2747.3	2747.3	2747.3
2.5°	2781.9	2736.5	2750.9	2738.9	2723.4
5°	2775.9	2729.4	2743.7	2724.6	2721.0
7.5°	2765.2	2718.6	2727.0	2704.3	2698.3
10°	2750.9	2701.9	2703.1	2670.9	2662.5
12.5°	2731.8	2678.0	2670.9	2626.7	2614.8
15°	2706.7	2649.4	2626.7	2567.0	2541.9
17.5°	2679.2	2612.4	2565.8	2473.9	2434.5
20°	2642.2	2567.0	2485.8	2346.1	2293.6
22.5°	2605.2	2512.1	2381.9	2195.7	2125.2
25°	2557.5	2444.0	2255.4	2019.0	1936.6
27.5°	2503.7	2364.0	2109.7	1837.5	1749.1
30°	2440.4	2267.3	1949.7	1659.6	1576.0
32.5°	2366.4	2158.7	1781.4	1499.6	1422.0
35°	2284.0	2033.3	1616.6	1357.5	1296.6
37.5°	2189.7	1896.0	1463.8	1242.9	1203.5
40°	2082.3	1746.8	1322.9	1154.6	1141.4
42.5°	1966.4	1601.1	1202.3	1097.2	1109.2
45°	1829.1	1449.5	1100.8	1061.4	1093.7
47.5°	1684.7	1301.4	1018.4	1041.1	1087.7
50°	1545.0	1164.1	954.0	1028.0	1082.9
52.5°	1371.9	1041.1	902.6	1016.1	1075.8
55°	1222.6	924.1	859.6	999.3	1061.4
57.5°	1050.7	819.1	821.4	977.9	1039.9
60°	907.4	723.5	784.4	948.0	1007.7
62.5°	761.7	637.6	743.8	908.6	962.3
65°	624.4	558.8	699.7	857.3	902.6
67.5°	509.8	487.1	649.5	795.2	833.4
70°	413.1	421.5	594.6	725.9	758.2
72.5°	317.6	360.6	534.9	651.9	679.4
75°	242.4	303.3	471.6	577.9	601.8
77.5°	179.1	253.1	414.3	511.0	531.3
80°	126.6	208.9	360.6	452.5	468.0
82.5°	84.8	171.9	316.4	400.0	414.3
85°	49.0	140.9	278.2	355.8	365.4
87.5°	20.3	117.0	247.1	310.4	315.2
90°	2.4	99.1	219.7	265.1	262.7
92.5°	2.4	89.5	195.8	222.1	216.1
95°	2.4	83.6	174.3	186.3	180.3
97.5°	2.4	80.0	155.2	160.0	154.0
100°	1.2	77.6	142.1	142.1	136.1
102.5°	1.2	75.2	132.5	128.9	124.2
105°	1.2	72.8	125.4	121.8	115.8
107.5°	1.2	71.6	120.6	117.0	111.0
110°	1.2	69.2	117.0	113.4	108.7



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CATALOG NUMBER: 8SNLED-LD5-68SL-SLN-UNV-L830-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.2	68.1	114.6	112.2	106.3
115°	1.2	65.7	111.0	109.8	106.3
117.5°	1.2	63.3	108.7	108.7	105.1
120°	1.2	60.9	105.1	107.5	103.9
122.5°	1.2	58.5	101.5	105.1	101.5
125°	1.2	56.1	97.9	102.7	100.3
127.5°	2.4	52.5	93.1	100.3	97.9
130°	1.2	49.0	88.4	97.9	96.7
132.5°	2.4	45.4	83.6	94.3	94.3
135°	2.4	41.8	77.6	90.7	90.7
137.5°	2.4	37.0	71.6	86.0	87.2
140°	2.4	33.4	65.7	81.2	83.6
142.5°	2.4	29.8	59.7	76.4	80.0
145°	2.4	26.3	53.7	70.4	75.2
147.5°	2.4	23.9	47.8	63.3	70.4
150°	2.4	20.3	43.0	57.3	64.5
152.5°	2.4	17.9	38.2	51.3	59.7
155°	2.4	16.7	33.4	44.2	53.7
157.5°	2.4	14.3	28.7	38.2	47.8
160°	2.4	11.9	23.9	33.4	40.6
162.5°	2.4	10.7	20.3	27.5	35.8
165°	2.4	9.6	16.7	21.5	28.7
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)