

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-SLC-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 (P27404)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNLED-LD5-68SL-SLC-UNV-L830-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

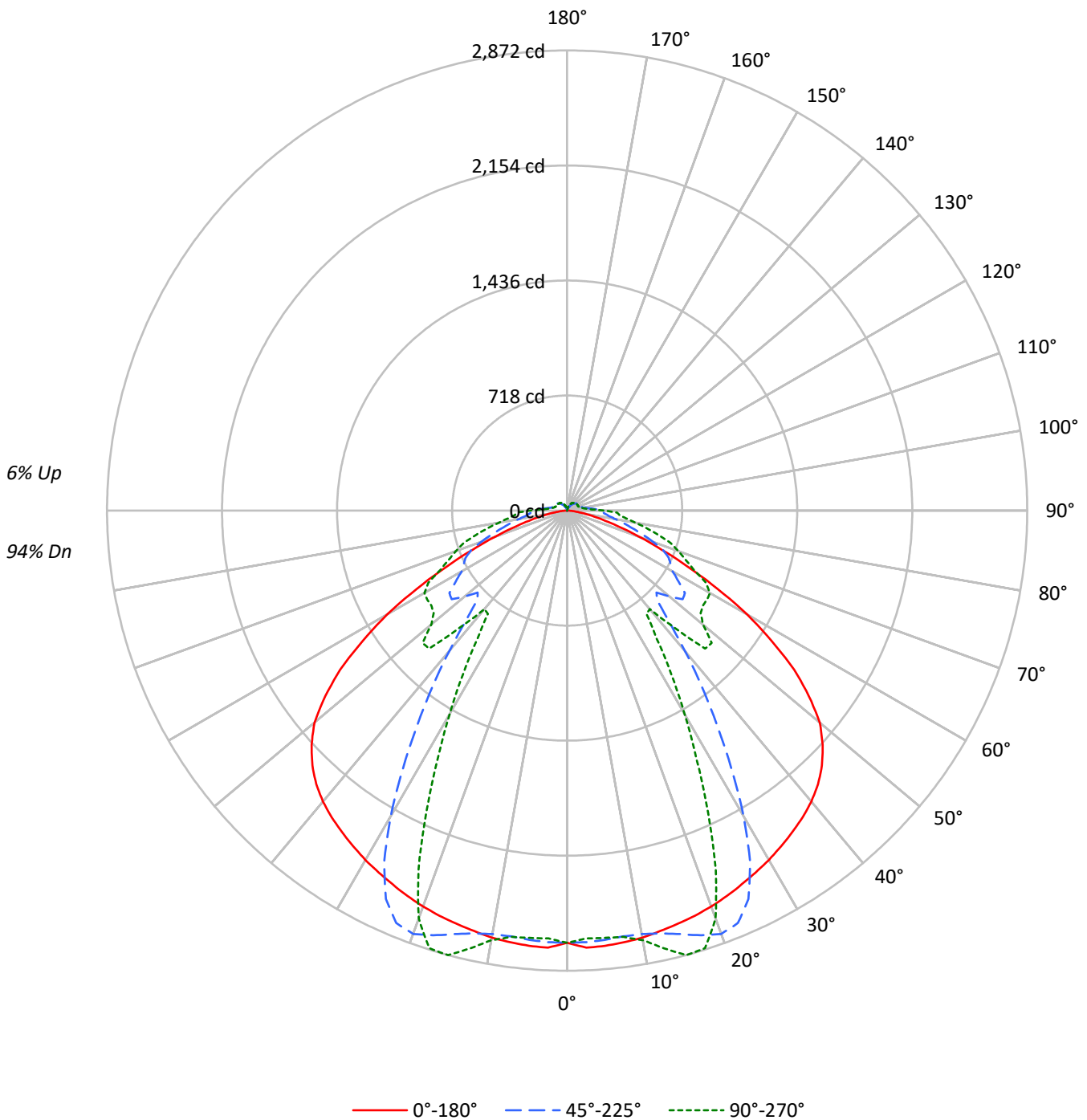
Lumens per Lamp: N/A
Luminaire Lumens: 6928.0 lumens
Efficiency: N/A
Efficacy: 138.6 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 50
Input Voltage (V): NR
Input Current (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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	107	102	98	94	104	99	95	92	94	91	88	89	87	84	85	83	81	78
2	98	90	83	77	95	87	81	76	83	78	73	79	74	71	75	71	68	66
3	89	79	71	65	87	77	70	64	73	67	62	70	65	60	67	62	59	56
4	82	71	62	56	80	69	61	55	66	59	53	63	57	52	60	55	51	49
5	76	63	55	48	74	62	54	48	59	52	47	57	51	46	54	49	45	43
6	70	58	49	43	68	56	48	42	54	47	41	52	45	41	50	44	40	38
7	66	52	44	38	64	51	43	38	49	42	37	47	41	36	46	40	36	34
8	61	48	40	34	59	47	39	34	45	38	33	44	37	33	42	37	32	30
9	57	44	36	31	56	44	36	31	42	35	30	41	34	30	39	34	29	28
10	54	41	33	28	52	40	33	28	39	32	28	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10897	10897	10897
5°	11045	10652	10511
10°	11074	10500	10475
15°	11120	10657	10918
20°	11240	10984	10248
25°	11398	10566	7891
30°	11642	8857	5613
35°	11953	6715	3800
40°	12345	4887	3218
45°	12655	3549	5059
50°	12709	3934	4801
55°	11921	4534	4741
60°	10202	4156	5040
65°	7720	4199	4610
70°	5463	3832	4291
75°	3627	3220	3851
80°	2373	2769	3205
85°	1361	2648	2877



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.6	3.7
10°-20°	774.9	11.2
20°-30°	1125.6	16.2
30°-40°	1075.5	15.5
40°-50°	983.8	14.2
50°-60°	908.4	13.1
60°-70°	721.5	10.4
70°-80°	445.3	6.4
80°-90°	242.5	3.5
90°-100°	122.6	1.8
100°-110°	77.0	1.1
110°-120°	65.2	0.9
120°-130°	53.3	0.8
130°-140°	38.2	0.6
140°-150°	23.6	0.3
150°-160°	11.2	0.2
160°-170°	2.9	0.0
170°-180°	0.0	0.0
0°-30°	2157.1	31.1
0°-40°	3232.6	46.7
0°-60°	5124.7	74.0
0°-90°	6534.0	94.3
90°-120°	264.8	3.8
90°-150°	379.9	5.5
90°-180°	394.0	5.7
0°-180°	6928.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2697	2697	2697	2697	2697	
5°	2727	2685	2690	2676	2677	259
15°	2670	2634	2736	2838	2872	756
25°	2575	2625	2676	2265	2080	1190
35°	2450	2410	1625	1119	973	1536
45°	2249	1569	793	1011	1218	1729
55°	1730	805	898	966	1034	1524
65°	834	522	700	850	870	844
75°	246	278	419	555	592	279
85°	35	118	238	324	328	44
90°	1	88	212	252	233	2
95°	0	82	147	130	123	0
105°	0	74	91	82	81	0
115°	0	61	87	78	74	1
125°	1	49	78	75	72	1
135°	1	35	62	68	66	1
145°	1	22	43	55	58	1
155°	2	13	26	35	42	1
165°	2	7	13	17	23	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2697.0	2697.0	2697.0	2697.0	2697.0
2.5°	2730.4	2691.0	2695.8	2687.5	2673.1
5°	2726.9	2685.1	2689.8	2675.5	2676.7
7.5°	2717.3	2674.3	2680.3	2677.9	2683.9
10°	2706.6	2661.2	2683.9	2704.2	2722.1
12.5°	2687.5	2646.9	2701.8	2761.5	2798.5
15°	2669.5	2633.7	2736.4	2837.9	2872.5
17.5°	2651.6	2629.0	2779.4	2867.7	2863.0
20°	2629.0	2626.6	2811.6	2781.8	2708.9
22.5°	2603.9	2627.8	2786.5	2568.1	2424.8
25°	2575.2	2625.4	2675.5	2264.8	2079.8
27.5°	2546.6	2614.6	2473.7	1932.9	1750.2
30°	2517.9	2586.0	2201.5	1629.7	1463.7
32.5°	2484.5	2523.9	1905.5	1361.0	1208.2
35°	2449.9	2410.5	1624.9	1118.7	973.0
37.5°	2414.1	2246.9	1373.0	906.2	813.0
40°	2371.1	2041.6	1141.4	777.2	802.3
42.5°	2317.3	1809.9	937.2	815.4	989.7
45°	2249.3	1568.8	792.7	1011.2	1217.8
47.5°	2163.3	1337.2	756.9	1158.1	1222.5
50°	2059.5	1124.6	832.1	1110.3	1105.5
52.5°	1901.9	948.0	908.6	1012.4	1050.6
55°	1730.0	804.7	897.8	965.9	1033.9
57.5°	1512.7	708.0	823.8	956.3	1035.1
60°	1296.6	643.5	760.5	955.1	1029.1
62.5°	1057.8	585.0	728.3	932.4	976.6
65°	834.5	521.7	699.6	850.1	870.3
67.5°	639.9	457.3	649.5	758.1	798.7
70°	482.3	394.0	570.7	687.7	737.8
72.5°	347.4	334.3	489.5	625.6	678.1
75°	245.9	278.2	419.1	555.2	592.2
77.5°	169.5	226.8	359.4	477.6	507.4
80°	111.0	181.5	305.6	410.7	431.0
82.5°	66.9	145.7	265.0	359.4	370.1
85°	34.6	118.2	237.6	323.5	328.3
87.5°	10.7	99.1	222.1	306.8	312.8
90°	1.2	88.3	212.5	251.9	232.8
92.5°	0.0	83.6	183.9	171.9	154.0
95°	0.0	82.4	146.8	130.1	123.0
97.5°	0.0	80.0	120.6	108.6	105.1
100°	0.0	77.6	103.9	95.5	94.3
102.5°	0.0	76.4	94.3	87.2	86.0
105°	0.0	74.0	90.7	82.4	81.2
107.5°	0.0	70.4	88.3	80.0	77.6
110°	0.0	66.9	88.3	78.8	75.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	63.3	88.3	77.6	74.0
115°	0.0	60.9	87.2	77.6	74.0
117.5°	1.2	58.5	86.0	77.6	74.0
120°	0.0	56.1	83.6	77.6	72.8
122.5°	1.2	52.5	81.2	76.4	72.8
125°	1.2	48.9	77.6	75.2	71.6
127.5°	1.2	45.4	74.0	72.8	69.2
130°	1.2	41.8	70.4	71.6	68.1
132.5°	1.2	38.2	65.7	69.2	66.9
135°	1.2	34.6	62.1	68.1	65.7
137.5°	1.2	31.0	57.3	64.5	64.5
140°	1.2	27.5	52.5	62.1	63.3
142.5°	1.2	25.1	47.8	59.7	60.9
145°	1.2	21.5	43.0	54.9	58.5
147.5°	1.2	19.1	38.2	50.1	54.9
150°	1.2	16.7	33.4	45.4	50.1
152.5°	1.2	14.3	29.8	39.4	46.6
155°	2.4	13.1	26.3	34.6	41.8
157.5°	2.4	10.7	21.5	29.8	35.8
160°	2.4	9.6	19.1	25.1	32.2
162.5°	2.4	8.4	15.5	21.5	27.5
165°	2.4	7.2	13.1	16.7	22.7
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)