

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: **4SNLED-LD5-61SL-SLN-UNV-L835-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: 4SNLED-LD5-61SL-SLN-UNV-L835-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

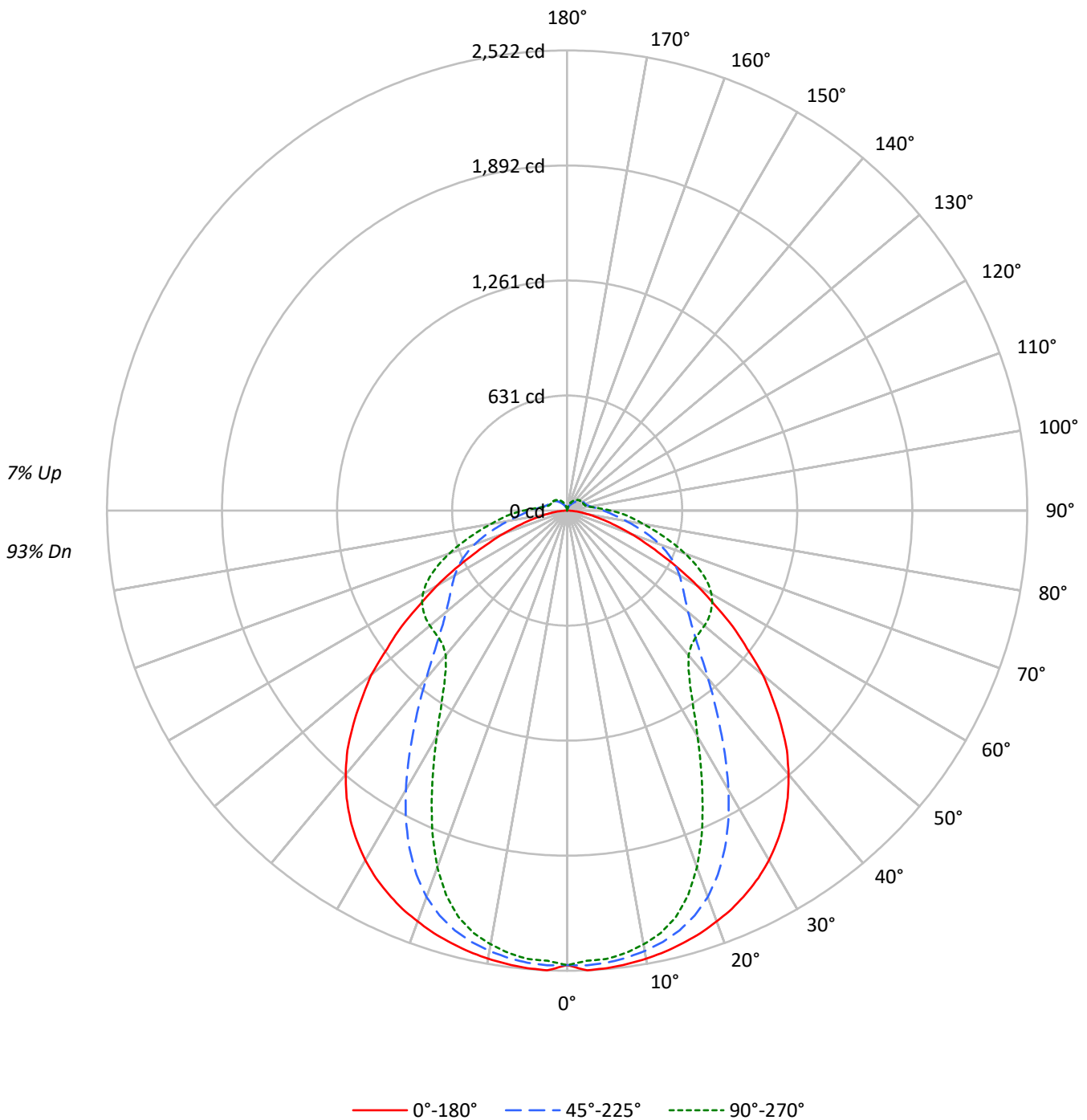
Lumens per Lamp: N/A
Luminaire Lumens: 6264.0 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 52
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	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°	20128	20128	20128
5°	20360	19684	19376
10°	20354	19140	18579
15°	20360	18499	17518
20°	20370	17546	15733
25°	20378	16077	13323
30°	20280	14146	10958
35°	19991	12036	9184
40°	19407	10193	8302
45°	18378	8859	8239
50°	16977	8098	8528
55°	14950	7784	8826
60°	12614	7673	8948
65°	10145	7503	8670
70°	8149	7116	7995
75°	6143	6440	7095
80°	4534	5783	6311
85°	3033	5455	5804



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.7	3.8
10°-20°	666.1	10.6
20°-30°	931.1	14.9
30°-40°	965.8	15.4
40°-50°	892.2	14.2
50°-60°	796.6	12.7
60°-70°	645.6	10.3
70°-80°	429.4	6.9
80°-90°	245.9	3.9
90°-100°	136.0	2.2
100°-110°	92.1	1.5
110°-120°	76.7	1.2
120°-130°	62.4	1.0
130°-140°	45.0	0.7
140°-150°	27.1	0.4
150°-160°	13.0	0.2
160°-170°	3.4	0.1
170°-180°	0.0	0.0
0°-30°	1832.8	29.3
0°-40°	2798.6	44.7
0°-60°	4487.4	71.6
0°-90°	5808.3	92.7
90°-120°	304.9	4.9
90°-150°	439.3	7.0
90°-180°	456.0	7.3
0°-180°	6264.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2491	2491	2491	2491	2491	
5°	2517	2475	2488	2470	2467	239
15°	2454	2402	2382	2327	2305	693
25°	2319	2216	2045	1830	1756	1068
35°	2071	1844	1466	1231	1176	1292
45°	1658	1314	998	962	992	1275
55°	1108	838	779	906	962	986
65°	566	507	634	777	818	572
75°	220	275	428	524	546	241
85°	44	128	252	323	331	51
90°	2	90	199	240	238	3
95°	2	76	158	169	164	2
105°	1	66	114	110	105	1
115°	1	60	101	100	96	1
125°	1	51	89	93	91	1
135°	2	38	70	82	82	2
145°	2	24	49	64	68	1
155°	2	15	30	40	49	1
165°	2	9	15	20	26	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2490.8	2490.8	2490.8	2490.8	2490.8
2.5°	2522.2	2481.1	2494.1	2483.2	2469.2
5°	2516.8	2474.6	2487.6	2470.2	2467.0
7.5°	2507.1	2464.8	2472.4	2451.8	2446.4
10°	2494.1	2449.7	2450.8	2421.5	2414.0
12.5°	2476.7	2428.0	2421.5	2381.5	2370.7
15°	2454.0	2402.1	2381.5	2327.4	2304.6
17.5°	2429.1	2368.5	2326.3	2242.9	2207.2
20°	2395.6	2327.4	2253.8	2127.1	2079.5
22.5°	2362.0	2277.6	2159.6	1990.7	1926.8
25°	2318.7	2215.9	2044.8	1830.5	1755.8
27.5°	2270.0	2143.3	1912.8	1666.0	1585.9
30°	2212.6	2055.7	1767.7	1504.7	1428.9
32.5°	2145.5	1957.1	1615.1	1359.6	1289.2
35°	2070.8	1843.5	1465.7	1230.8	1175.6
37.5°	1985.3	1719.0	1327.1	1126.9	1091.2
40°	1887.9	1583.7	1199.4	1046.8	1034.9
42.5°	1782.9	1451.6	1090.1	994.8	1005.6
45°	1658.4	1314.1	998.1	962.3	991.6
47.5°	1527.4	1179.9	923.4	943.9	986.2
50°	1400.7	1055.4	864.9	932.0	981.8
52.5°	1243.8	943.9	818.4	921.2	975.3
55°	1108.5	837.8	779.4	906.0	962.3
57.5°	952.6	742.6	744.8	886.6	942.9
60°	822.7	656.0	711.2	859.5	913.6
62.5°	690.6	578.1	674.4	823.8	872.5
65°	566.1	506.6	634.3	777.2	818.4
67.5°	462.2	441.7	588.9	720.9	755.6
70°	374.5	382.1	539.1	658.2	687.4
72.5°	287.9	326.9	485.0	591.0	615.9
75°	219.7	275.0	427.6	523.9	545.6
77.5°	162.4	229.5	375.6	463.3	481.7
80°	114.7	189.4	326.9	410.3	424.3
82.5°	76.9	155.9	286.9	362.6	375.6
85°	44.4	127.7	252.2	322.6	331.2
87.5°	18.4	106.1	224.1	281.4	285.8
90°	2.2	89.8	199.2	240.3	238.1
92.5°	2.2	81.2	177.5	201.3	195.9
95°	2.2	75.8	158.0	168.9	163.5
97.5°	2.2	72.5	140.7	145.1	139.6
100°	1.1	70.4	128.8	128.8	123.4
102.5°	1.1	68.2	120.2	116.9	112.6
105°	1.1	66.0	113.7	110.4	105.0
107.5°	1.1	64.9	109.3	106.1	100.7
110°	1.1	62.8	106.1	102.8	98.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.1	61.7	103.9	101.8	96.3
115°	1.1	59.5	100.7	99.6	96.3
117.5°	1.1	57.4	98.5	98.5	95.3
120°	1.1	55.2	95.3	97.4	94.2
122.5°	1.1	53.0	92.0	95.3	92.0
125°	1.1	50.9	88.8	93.1	90.9
127.5°	2.2	47.6	84.4	90.9	88.8
130°	1.1	44.4	80.1	88.8	87.7
132.5°	2.2	41.1	75.8	85.5	85.5
135°	2.2	37.9	70.4	82.3	82.3
137.5°	2.2	33.6	64.9	77.9	79.0
140°	2.2	30.3	59.5	73.6	75.8
142.5°	2.2	27.1	54.1	69.3	72.5
145°	2.2	23.8	48.7	63.9	68.2
147.5°	2.2	21.6	43.3	57.4	63.9
150°	2.2	18.4	39.0	52.0	58.5
152.5°	2.2	16.2	34.6	46.5	54.1
155°	2.2	15.2	30.3	40.1	48.7
157.5°	2.2	13.0	26.0	34.6	43.3
160°	2.2	10.8	21.6	30.3	36.8
162.5°	2.2	9.7	18.4	24.9	32.5
165°	2.2	8.7	15.2	19.5	26.0
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)