

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-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: 4SNLED-LD5-61SL-SLN-UNV-L830-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

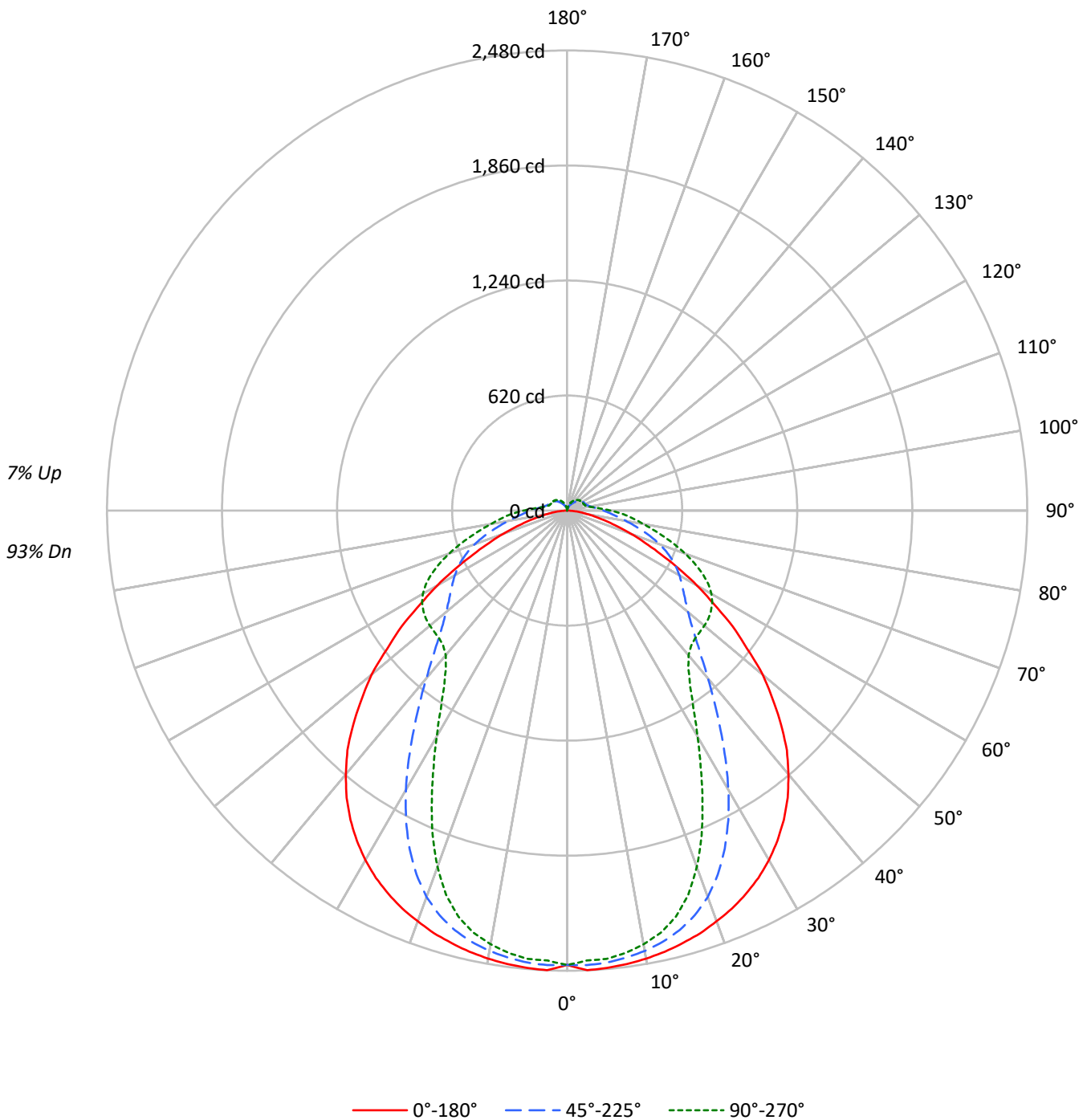
Lumens per Lamp: N/A
Luminaire Lumens: 6158.0 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 52
Input Voltage (V): NR
Input Current (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°	19788	19788	19788
5°	20016	19351	19048
10°	20009	18816	18264
15°	20016	18186	17222
20°	20024	17248	15467
25°	20033	15805	13098
30°	19937	13907	10773
35°	19653	11832	9028
40°	19078	10021	8162
45°	18067	8709	8100
50°	16690	7962	8384
55°	14697	7652	8678
60°	12401	7544	8797
65°	9974	7376	8523
70°	8012	6996	7861
75°	6040	6330	6974
80°	4459	5686	6205
85°	2979	5364	5706



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.7	3.8
10°-20°	654.8	10.6
20°-30°	915.3	14.9
30°-40°	949.4	15.4
40°-50°	877.1	14.2
50°-60°	783.1	12.7
60°-70°	634.7	10.3
70°-80°	422.1	6.9
80°-90°	241.7	3.9
90°-100°	133.7	2.2
100°-110°	90.6	1.5
110°-120°	75.4	1.2
120°-130°	61.3	1.0
130°-140°	44.2	0.7
140°-150°	26.7	0.4
150°-160°	12.8	0.2
160°-170°	3.3	0.1
170°-180°	0.0	0.0
0°-30°	1801.8	29.3
0°-40°	2751.2	44.7
0°-60°	4411.5	71.6
0°-90°	5710.0	92.7
90°-120°	299.7	4.9
90°-150°	431.9	7.0
90°-180°	448.0	7.3
0°-180°	6158.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2449	2449	2449	2449	2449	
5°	2474	2433	2446	2428	2425	235
15°	2412	2361	2341	2288	2266	682
25°	2280	2178	2010	1800	1726	1050
35°	2036	1812	1441	1210	1156	1270
45°	1630	1292	981	946	975	1254
55°	1090	824	766	891	946	969
65°	557	498	624	764	804	563
75°	216	270	420	515	536	237
85°	44	126	248	317	326	50
90°	2	88	196	236	234	3
95°	2	74	155	166	161	2
105°	1	65	112	108	103	1
115°	1	58	99	98	95	1
125°	1	50	87	92	89	1
135°	2	37	69	81	81	2
145°	2	23	48	63	67	1
155°	2	15	30	39	48	1
165°	2	8	15	19	26	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°	2448.7	2448.7	2448.7	2448.7	2448.7
2.5°	2479.5	2439.1	2451.9	2441.2	2427.4
5°	2474.2	2432.7	2445.5	2428.4	2425.3
7.5°	2464.6	2423.1	2430.6	2410.4	2405.0
10°	2451.9	2408.2	2409.3	2380.6	2373.1
12.5°	2434.8	2386.9	2380.6	2341.2	2330.5
15°	2412.5	2361.4	2341.2	2288.0	2265.6
17.5°	2388.0	2328.4	2286.9	2205.0	2169.9
20°	2355.0	2288.0	2215.6	2091.1	2044.3
22.5°	2322.0	2239.0	2123.0	1957.0	1894.2
25°	2279.5	2178.4	2010.2	1799.5	1726.1
27.5°	2231.6	2107.1	1880.4	1637.8	1559.0
30°	2175.2	2020.9	1737.8	1479.2	1404.7
32.5°	2109.2	1924.0	1587.7	1336.6	1267.4
35°	2035.8	1812.3	1440.9	1210.0	1155.7
37.5°	1951.7	1689.9	1304.7	1107.8	1072.7
40°	1855.9	1556.9	1179.1	1029.1	1017.4
42.5°	1752.7	1427.1	1071.6	978.0	988.6
45°	1630.3	1291.9	981.2	946.1	974.8
47.5°	1501.6	1160.0	907.7	928.0	969.5
50°	1377.0	1037.6	850.3	916.3	965.2
52.5°	1222.7	928.0	804.5	905.6	958.8
55°	1089.7	823.7	766.2	890.7	946.1
57.5°	936.5	730.0	732.2	871.6	926.9
60°	808.8	644.9	699.2	845.0	898.2
62.5°	678.9	568.3	663.0	809.8	857.7
65°	556.6	498.0	623.6	764.1	804.5
67.5°	454.4	434.2	578.9	708.7	742.8
70°	368.2	375.7	530.0	647.0	675.8
72.5°	283.1	321.4	476.8	581.0	605.5
75°	216.0	270.3	420.3	515.1	536.3
77.5°	159.6	225.6	369.3	455.5	473.6
80°	112.8	186.2	321.4	403.3	417.2
82.5°	75.6	153.2	282.0	356.5	369.3
85°	43.6	125.6	248.0	317.1	325.6
87.5°	18.1	104.3	220.3	276.7	280.9
90°	2.1	88.3	195.8	236.2	234.1
92.5°	2.1	79.8	174.5	197.9	192.6
95°	2.1	74.5	155.4	166.0	160.7
97.5°	2.1	71.3	138.3	142.6	137.3
100°	1.1	69.2	126.6	126.6	121.3
102.5°	1.1	67.0	118.1	114.9	110.7
105°	1.1	64.9	111.7	108.5	103.2
107.5°	1.1	63.9	107.5	104.3	99.0
110°	1.1	61.7	104.3	101.1	96.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.1	60.7	102.2	100.0	94.7
115°	1.1	58.5	99.0	97.9	94.7
117.5°	1.1	56.4	96.8	96.8	93.6
120°	1.1	54.3	93.6	95.8	92.6
122.5°	1.1	52.1	90.5	93.6	90.5
125°	1.1	50.0	87.3	91.5	89.4
127.5°	2.1	46.8	83.0	89.4	87.3
130°	1.1	43.6	78.7	87.3	86.2
132.5°	2.1	40.4	74.5	84.1	84.1
135°	2.1	37.2	69.2	80.9	80.9
137.5°	2.1	33.0	63.9	76.6	77.7
140°	2.1	29.8	58.5	72.4	74.5
142.5°	2.1	26.6	53.2	68.1	71.3
145°	2.1	23.4	47.9	62.8	67.0
147.5°	2.1	21.3	42.6	56.4	62.8
150°	2.1	18.1	38.3	51.1	57.5
152.5°	2.1	16.0	34.1	45.8	53.2
155°	2.1	14.9	29.8	39.4	47.9
157.5°	2.1	12.8	25.5	34.1	42.6
160°	2.1	10.6	21.3	29.8	36.2
162.5°	2.1	9.6	18.1	24.5	31.9
165°	2.1	8.5	14.9	19.2	25.5
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)