

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-L840-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-L840-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

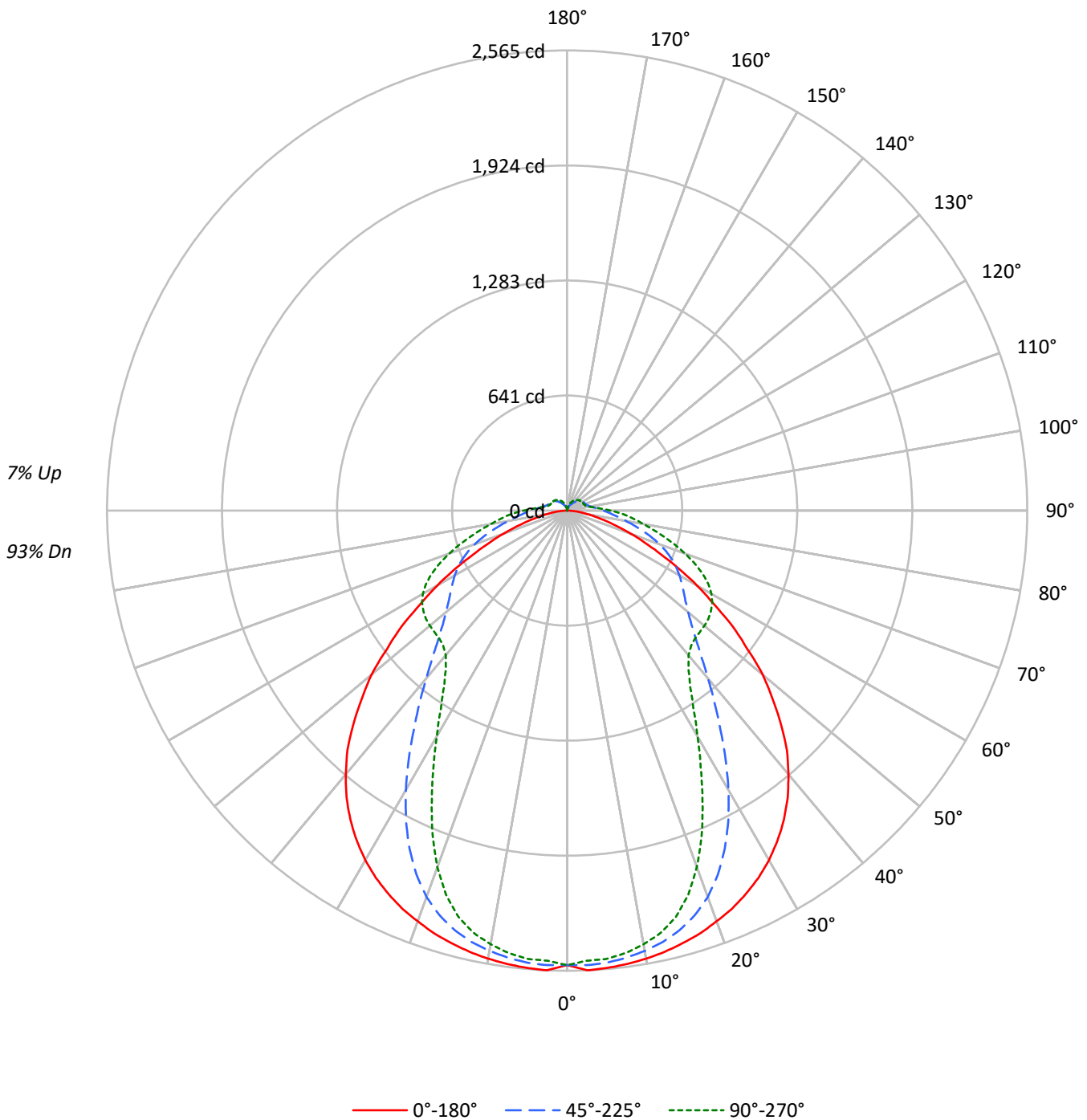
Lumens per Lamp: N/A
Luminaire Lumens: 6370.0 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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



TEST NUMBER: P#
CATALOG NUMBER: 4SNLED-LD5-61SL-SLN-UNV-L840-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-61SL-SLN-UNV-L840-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°	20469	20469	20469
5°	20705	20017	19703
10°	20698	19463	18893
15°	20704	18812	17815
20°	20714	17842	16000
25°	20722	16349	13549
30°	20624	14386	11144
35°	20330	12240	9339
40°	19735	10366	8443
45°	18689	9008	8378
50°	17264	8235	8672
55°	15202	7916	8976
60°	12827	7803	9100
65°	10317	7630	8816
70°	8288	7236	8130
75°	6249	6549	7215
80°	4613	5880	6418
85°	3081	5548	5903



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-61SL-SLN-UNV-L840-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.6	3.8
10°-20°	677.3	10.6
20°-30°	946.8	14.9
30°-40°	982.1	15.4
40°-50°	907.3	14.2
50°-60°	810.1	12.7
60°-70°	656.5	10.3
70°-80°	436.7	6.9
80°-90°	250.0	3.9
90°-100°	138.3	2.2
100°-110°	93.7	1.5
110°-120°	78.0	1.2
120°-130°	63.4	1.0
130°-140°	45.7	0.7
140°-150°	27.6	0.4
150°-160°	13.2	0.2
160°-170°	3.4	0.1
170°-180°	0.0	0.0
0°-30°	1863.8	29.3
0°-40°	2846.0	44.7
0°-60°	4563.3	71.6
0°-90°	5906.5	92.7
90°-120°	310.0	4.9
90°-150°	446.8	7.0
90°-180°	463.0	7.3
0°-180°	6370.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2533	2533	2533	2533	2533	
5°	2559	2516	2530	2512	2509	243
15°	2496	2443	2422	2367	2344	705
25°	2358	2253	2079	1862	1786	1087
35°	2106	1875	1490	1252	1196	1314
45°	1686	1336	1015	979	1008	1297
55°	1127	852	793	921	979	1002
65°	576	515	645	790	832	582
75°	224	280	435	533	555	245
85°	45	130	256	328	337	52
90°	2	91	202	244	242	3
95°	2	77	161	172	166	2
105°	1	67	116	112	107	1
115°	1	60	102	101	98	1
125°	1	52	90	95	92	1
135°	2	38	72	84	84	2
145°	2	24	50	65	69	1
155°	2	15	31	41	50	1
165°	2	9	15	20	26	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-61SL-SLN-UNV-L840-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2533.0	2533.0	2533.0	2533.0	2533.0
2.5°	2564.9	2523.1	2536.3	2525.3	2511.0
5°	2559.4	2516.5	2529.7	2512.1	2508.7
7.5°	2549.5	2506.5	2514.3	2493.3	2487.8
10°	2536.3	2491.1	2492.2	2462.5	2454.8
12.5°	2518.7	2469.1	2462.5	2421.8	2410.8
15°	2495.5	2442.7	2421.8	2366.7	2343.6
17.5°	2470.2	2408.6	2365.6	2280.9	2244.6
20°	2436.1	2366.7	2291.9	2163.1	2114.7
22.5°	2402.0	2316.1	2196.1	2024.4	1959.4
25°	2357.9	2253.4	2079.4	1861.5	1785.5
27.5°	2308.4	2179.6	1945.1	1694.1	1612.7
30°	2250.1	2090.4	1797.6	1530.1	1453.1
32.5°	2181.8	1990.3	1642.4	1382.6	1311.1
35°	2105.9	1874.7	1490.5	1251.6	1195.5
37.5°	2018.9	1748.1	1349.6	1145.9	1109.6
40°	1919.8	1610.5	1219.7	1064.5	1052.4
42.5°	1813.0	1476.2	1108.5	1011.6	1022.7
45°	1686.4	1336.4	1014.9	978.6	1008.3
47.5°	1553.2	1199.9	939.0	959.9	1002.8
50°	1424.4	1073.3	879.5	947.8	998.4
52.5°	1264.8	959.9	832.2	936.8	991.8
55°	1127.2	852.0	792.6	921.4	978.6
57.5°	968.7	755.2	757.4	901.6	958.8
60°	836.6	667.1	723.2	874.0	929.1
62.5°	702.3	587.8	685.8	837.7	887.3
65°	575.7	515.2	645.1	790.4	832.2
67.5°	470.0	449.1	598.8	733.1	768.4
70°	380.9	388.6	548.2	669.3	699.0
72.5°	292.8	332.4	493.2	601.0	626.4
75°	223.5	279.6	434.8	532.8	554.8
77.5°	165.1	233.4	382.0	471.1	489.9
80°	116.7	192.6	332.4	417.2	431.5
82.5°	78.2	158.5	291.7	368.8	382.0
85°	45.1	129.9	256.5	328.0	336.8
87.5°	18.7	107.9	227.9	286.2	290.6
90°	2.2	91.4	202.5	244.4	242.2
92.5°	2.2	82.6	180.5	204.8	199.2
95°	2.2	77.1	160.7	171.7	166.2
97.5°	2.2	73.8	143.1	147.5	142.0
100°	1.1	71.6	131.0	131.0	125.5
102.5°	1.1	69.4	122.2	118.9	114.5
105°	1.1	67.1	115.6	112.3	106.8
107.5°	1.1	66.0	111.2	107.9	102.4
110°	1.1	63.8	107.9	104.6	100.2



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-61SL-SLN-UNV-L840-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.1	62.7	105.7	103.5	98.0
115°	1.1	60.5	102.4	101.3	98.0
117.5°	1.1	58.3	100.2	100.2	96.9
120°	1.1	56.1	96.9	99.1	95.8
122.5°	1.1	53.9	93.6	96.9	93.6
125°	1.1	51.7	90.3	94.7	92.5
127.5°	2.2	48.4	85.9	92.5	90.3
130°	1.1	45.1	81.5	90.3	89.2
132.5°	2.2	41.8	77.1	87.0	87.0
135°	2.2	38.5	71.6	83.7	83.7
137.5°	2.2	34.1	66.0	79.3	80.4
140°	2.2	30.8	60.5	74.9	77.1
142.5°	2.2	27.5	55.0	70.5	73.8
145°	2.2	24.2	49.5	64.9	69.4
147.5°	2.2	22.0	44.0	58.3	64.9
150°	2.2	18.7	39.6	52.8	59.4
152.5°	2.2	16.5	35.2	47.3	55.0
155°	2.2	15.4	30.8	40.7	49.5
157.5°	2.2	13.2	26.4	35.2	44.0
160°	2.2	11.0	22.0	30.8	37.4
162.5°	2.2	9.9	18.7	25.3	33.0
165°	2.2	8.8	15.4	19.8	26.4
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)