

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-L935-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-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

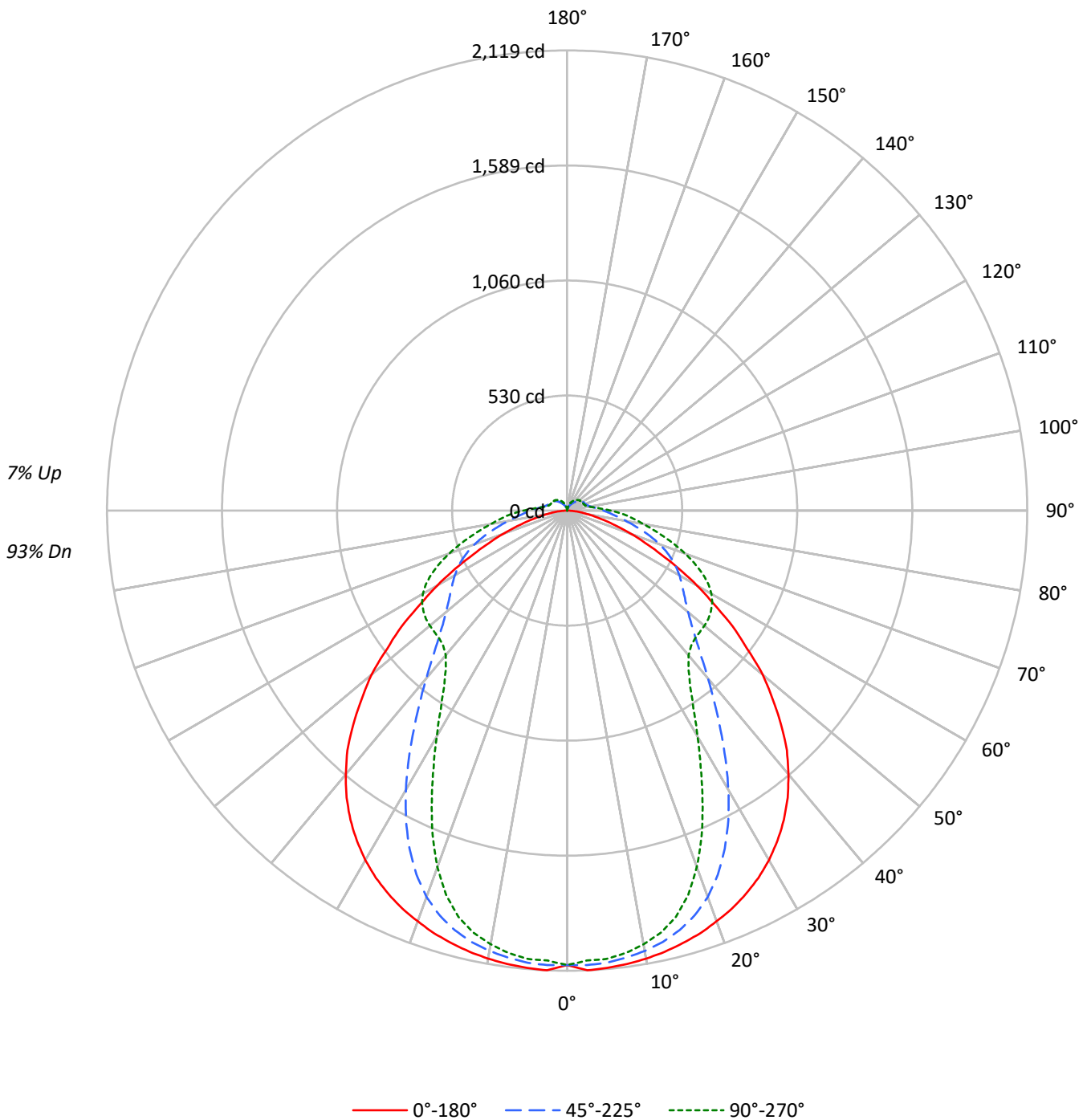
Lumens per Lamp: N/A
Luminaire Lumens: 5262.0 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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°	16909	16909	16909
5°	17103	16535	16277
10°	17098	16078	15607
15°	17103	15539	14717
20°	17111	14738	13216
25°	17118	13505	11192
30°	17036	11883	9205
35°	16794	10110	7714
40°	16302	8562	6974
45°	15438	7442	6922
50°	14262	6803	7164
55°	12559	6539	7415
60°	10596	6445	7517
65°	8523	6303	7283
70°	6845	5977	6716
75°	5162	5410	5960
80°	3811	4858	5302
85°	2548	4584	4877



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.0	3.8
10°-20°	559.5	10.6
20°-30°	782.2	14.9
30°-40°	811.3	15.4
40°-50°	749.5	14.2
50°-60°	669.2	12.7
60°-70°	542.3	10.3
70°-80°	360.7	6.9
80°-90°	206.6	3.9
90°-100°	114.3	2.2
100°-110°	77.4	1.5
110°-120°	64.4	1.2
120°-130°	52.4	1.0
130°-140°	37.8	0.7
140°-150°	22.8	0.4
150°-160°	10.9	0.2
160°-170°	2.8	0.1
170°-180°	0.0	0.0
0°-30°	1539.6	29.3
0°-40°	2350.9	44.7
0°-60°	3769.6	71.6
0°-90°	4879.2	92.7
90°-120°	256.1	4.9
90°-150°	369.0	7.0
90°-180°	383.0	7.3
0°-180°	5262.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2092	2092	2092	2092	2092	
5°	2114	2079	2090	2075	2072	201
15°	2062	2018	2000	1955	1936	583
25°	1948	1861	1718	1538	1475	898
35°	1740	1549	1231	1034	988	1085
45°	1393	1104	838	808	833	1071
55°	931	704	655	761	808	828
65°	476	426	533	653	688	481
75°	185	231	359	440	458	202
85°	37	107	212	271	278	43
90°	2	76	167	202	200	3
95°	2	64	133	142	137	1
105°	1	56	96	93	88	1
115°	1	50	85	84	81	1
125°	1	43	75	78	76	1
135°	2	32	59	69	69	1
145°	2	20	41	54	57	1
155°	2	13	26	34	41	1
165°	2	7	13	16	22	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°	2092.4	2092.4	2092.4	2092.4	2092.4
2.5°	2118.8	2084.2	2095.1	2086.0	2074.2
5°	2114.2	2078.7	2089.7	2075.1	2072.4
7.5°	2106.0	2070.6	2076.9	2059.6	2055.1
10°	2095.1	2057.8	2058.7	2034.2	2027.8
12.5°	2080.6	2039.6	2034.2	2000.5	1991.4
15°	2061.5	2017.8	2000.5	1955.1	1936.0
17.5°	2040.5	1989.6	1954.2	1884.1	1854.1
20°	2012.4	1955.1	1893.2	1786.8	1746.8
22.5°	1984.2	1913.2	1814.1	1672.3	1618.6
25°	1947.8	1861.4	1717.7	1537.7	1474.9
27.5°	1906.9	1800.5	1606.8	1399.5	1332.2
30°	1858.7	1726.8	1484.9	1264.0	1200.3
32.5°	1802.3	1644.1	1356.7	1142.1	1083.0
35°	1739.6	1548.6	1231.2	1033.9	987.5
37.5°	1667.7	1444.0	1114.8	946.6	916.6
40°	1585.9	1330.4	1007.5	879.3	869.3
42.5°	1497.7	1219.4	915.7	835.7	844.8
45°	1393.1	1103.9	838.4	808.4	833.0
47.5°	1283.1	991.2	775.7	792.9	828.4
50°	1176.7	886.6	726.6	782.9	824.8
52.5°	1044.8	792.9	687.5	773.8	819.3
55°	931.2	703.8	654.7	761.1	808.4
57.5°	800.2	623.8	625.6	744.7	792.0
60°	691.1	551.1	597.4	722.0	767.5
62.5°	580.2	485.6	566.5	692.0	732.9
65°	475.6	425.6	532.9	652.9	687.5
67.5°	388.3	371.0	494.7	605.6	634.7
70°	314.6	321.0	452.8	552.9	577.4
72.5°	241.9	274.6	407.4	496.5	517.4
75°	184.6	231.0	359.2	440.1	458.3
77.5°	136.4	192.8	315.5	389.2	404.7
80°	96.4	159.1	274.6	344.6	356.5
82.5°	64.6	130.9	241.0	304.6	315.5
85°	37.3	107.3	211.9	271.0	278.3
87.5°	15.5	89.1	188.2	236.4	240.1
90°	1.8	75.5	167.3	201.9	200.1
92.5°	1.8	68.2	149.1	169.1	164.6
95°	1.8	63.7	132.8	141.9	137.3
97.5°	1.8	60.9	118.2	121.9	117.3
100°	0.9	59.1	108.2	108.2	103.7
102.5°	0.9	57.3	100.9	98.2	94.6
105°	0.9	55.5	95.5	92.8	88.2
107.5°	0.9	54.6	91.8	89.1	84.6
110°	0.9	52.7	89.1	86.4	82.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.9	51.8	87.3	85.5	80.9
115°	0.9	50.0	84.6	83.7	80.9
117.5°	0.9	48.2	82.7	82.7	80.0
120°	0.9	46.4	80.0	81.8	79.1
122.5°	0.9	44.6	77.3	80.0	77.3
125°	0.9	42.7	74.6	78.2	76.4
127.5°	1.8	40.0	70.9	76.4	74.6
130°	0.9	37.3	67.3	74.6	73.7
132.5°	1.8	34.6	63.7	71.8	71.8
135°	1.8	31.8	59.1	69.1	69.1
137.5°	1.8	28.2	54.6	65.5	66.4
140°	1.8	25.5	50.0	61.8	63.7
142.5°	1.8	22.7	45.5	58.2	60.9
145°	1.8	20.0	40.9	53.7	57.3
147.5°	1.8	18.2	36.4	48.2	53.7
150°	1.8	15.5	32.7	43.6	49.1
152.5°	1.8	13.6	29.1	39.1	45.5
155°	1.8	12.7	25.5	33.6	40.9
157.5°	1.8	10.9	21.8	29.1	36.4
160°	1.8	9.1	18.2	25.5	30.9
162.5°	1.8	8.2	15.5	20.9	27.3
165°	1.8	7.3	12.7	16.4	21.8
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)