

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-L940-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-L940-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

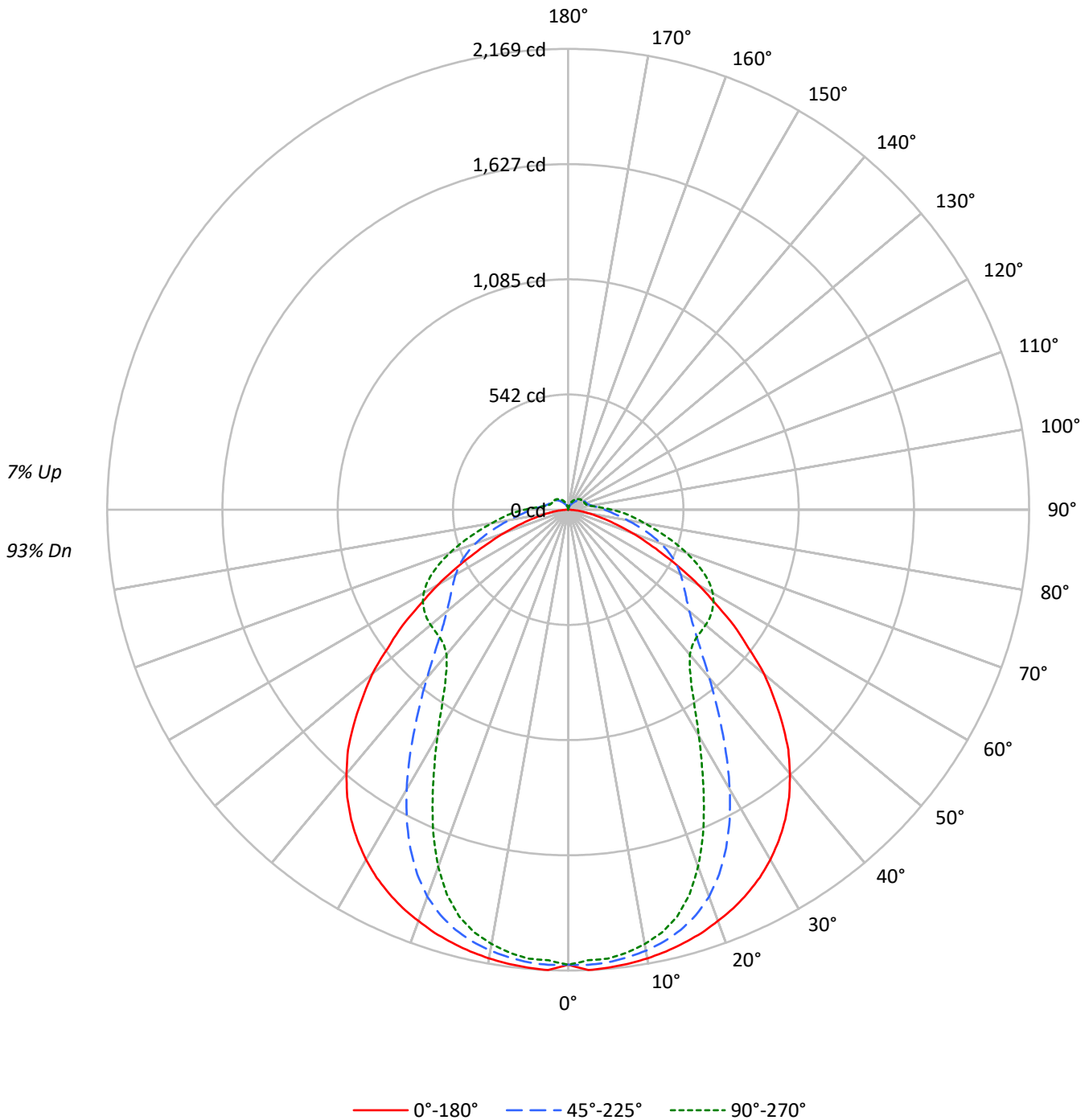
Lumens per Lamp: N/A
Luminaire Lumens: 5386.0 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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°	17307	17307	17307
5°	17506	16925	16660
10°	17501	16457	15974
15°	17506	15906	15063
20°	17514	15086	13528
25°	17521	13823	11456
30°	17438	12163	9422
35°	17190	10349	7896
40°	16687	8765	7138
45°	15802	7618	7084
50°	14598	6964	7333
55°	12854	6694	7589
60°	10846	6597	7694
65°	8724	6451	7455
70°	7006	6118	6874
75°	5282	5538	6100
80°	3902	4973	5427
85°	2610	4692	4991



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.6	3.8
10°-20°	572.7	10.6
20°-30°	800.6	14.9
30°-40°	830.4	15.4
40°-50°	767.2	14.2
50°-60°	684.9	12.7
60°-70°	555.1	10.3
70°-80°	369.2	6.9
80°-90°	211.4	3.9
90°-100°	117.0	2.2
100°-110°	79.2	1.5
110°-120°	66.0	1.2
120°-130°	53.6	1.0
130°-140°	38.7	0.7
140°-150°	23.3	0.4
150°-160°	11.2	0.2
160°-170°	2.9	0.1
170°-180°	0.0	0.0
0°-30°	1575.9	29.3
0°-40°	2406.3	44.7
0°-60°	3858.4	71.6
0°-90°	4994.2	92.7
90°-120°	262.1	4.9
90°-150°	377.7	7.0
90°-180°	392.0	7.3
0°-180°	5386.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2142	2142	2142	2142	2142	
5°	2164	2128	2139	2124	2121	206
15°	2110	2065	2048	2001	1982	596
25°	1994	1905	1758	1574	1510	919
35°	1781	1585	1260	1058	1011	1111
45°	1426	1130	858	827	853	1096
55°	953	720	670	779	827	847
65°	487	436	545	668	704	492
75°	189	236	368	450	469	207
85°	38	110	217	277	285	44
90°	2	77	171	207	205	3
95°	2	65	136	145	140	1
105°	1	57	98	95	90	1
115°	1	51	87	86	83	1
125°	1	44	76	80	78	1
135°	2	33	60	71	71	1
145°	2	20	42	55	59	1
155°	2	13	26	34	42	1
165°	2	7	13	17	22	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-L940-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2141.7	2141.7	2141.7	2141.7	2141.7
2.5°	2168.7	2133.3	2144.5	2135.2	2123.1
5°	2164.0	2127.7	2138.9	2124.0	2121.2
7.5°	2155.7	2119.4	2125.9	2108.2	2103.5
10°	2144.5	2106.3	2107.3	2082.1	2075.6
12.5°	2129.6	2087.7	2082.1	2047.7	2038.4
15°	2110.0	2065.4	2047.7	2001.1	1981.6
17.5°	2088.6	2036.5	2000.2	1928.5	1897.8
20°	2059.8	2001.1	1937.9	1829.0	1788.0
22.5°	2030.9	1958.3	1856.9	1711.7	1656.8
25°	1993.7	1905.3	1758.2	1573.9	1509.7
27.5°	1951.8	1842.9	1644.7	1432.4	1363.6
30°	1902.5	1767.5	1519.9	1293.8	1228.6
32.5°	1844.8	1682.8	1388.7	1169.0	1108.5
35°	1780.6	1585.1	1260.3	1058.3	1010.8
37.5°	1707.0	1478.1	1141.1	968.9	938.2
40°	1623.3	1361.7	1031.3	900.0	889.8
42.5°	1533.0	1248.2	937.3	855.4	864.7
45°	1425.9	1129.9	858.2	827.4	852.6
47.5°	1313.3	1014.5	793.9	811.6	847.9
50°	1204.4	907.5	743.7	801.4	844.2
52.5°	1069.4	811.6	703.7	792.1	838.6
55°	953.1	720.4	670.2	779.0	827.4
57.5°	819.1	638.5	640.4	762.3	810.7
60°	707.4	564.0	611.5	739.0	785.6
62.5°	593.8	497.0	579.9	708.3	750.2
65°	486.8	435.6	545.4	668.3	703.7
67.5°	397.4	379.8	506.3	619.9	649.7
70°	322.0	328.6	463.5	565.9	591.0
72.5°	247.6	281.1	417.0	508.2	529.6
75°	188.9	236.4	367.7	450.5	469.1
77.5°	139.6	197.3	323.0	398.4	414.2
80°	98.7	162.9	281.1	352.8	364.9
82.5°	66.1	134.0	246.7	311.8	323.0
85°	38.2	109.8	216.9	277.4	284.8
87.5°	15.8	91.2	192.7	242.0	245.7
90°	1.9	77.3	171.3	206.6	204.8
92.5°	1.9	69.8	152.6	173.1	168.5
95°	1.9	65.2	135.9	145.2	140.5
97.5°	1.9	62.4	121.0	124.7	120.1
100°	0.9	60.5	110.8	110.8	106.1
102.5°	0.9	58.6	103.3	100.5	96.8
105°	0.9	56.8	97.7	94.9	90.3
107.5°	0.9	55.8	94.0	91.2	86.6
110°	0.9	54.0	91.2	88.4	84.7



TEST NUMBER: P#

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.9	53.1	89.4	87.5	82.8
115°	0.9	51.2	86.6	85.6	82.8
117.5°	0.9	49.3	84.7	84.7	81.9
120°	0.9	47.5	81.9	83.8	81.0
122.5°	0.9	45.6	79.1	81.9	79.1
125°	0.9	43.7	76.3	80.0	78.2
127.5°	1.9	41.0	72.6	78.2	76.3
130°	0.9	38.2	68.9	76.3	75.4
132.5°	1.9	35.4	65.2	73.5	73.5
135°	1.9	32.6	60.5	70.7	70.7
137.5°	1.9	28.9	55.8	67.0	67.9
140°	1.9	26.1	51.2	63.3	65.2
142.5°	1.9	23.3	46.5	59.6	62.4
145°	1.9	20.5	41.9	54.9	58.6
147.5°	1.9	18.6	37.2	49.3	54.9
150°	1.9	15.8	33.5	44.7	50.3
152.5°	1.9	14.0	29.8	40.0	46.5
155°	1.9	13.0	26.1	34.4	41.9
157.5°	1.9	11.2	22.3	29.8	37.2
160°	1.9	9.3	18.6	26.1	31.6
162.5°	1.9	8.4	15.8	21.4	27.9
165°	1.9	7.4	13.0	16.8	22.3
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)