

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-L950-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-L950-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

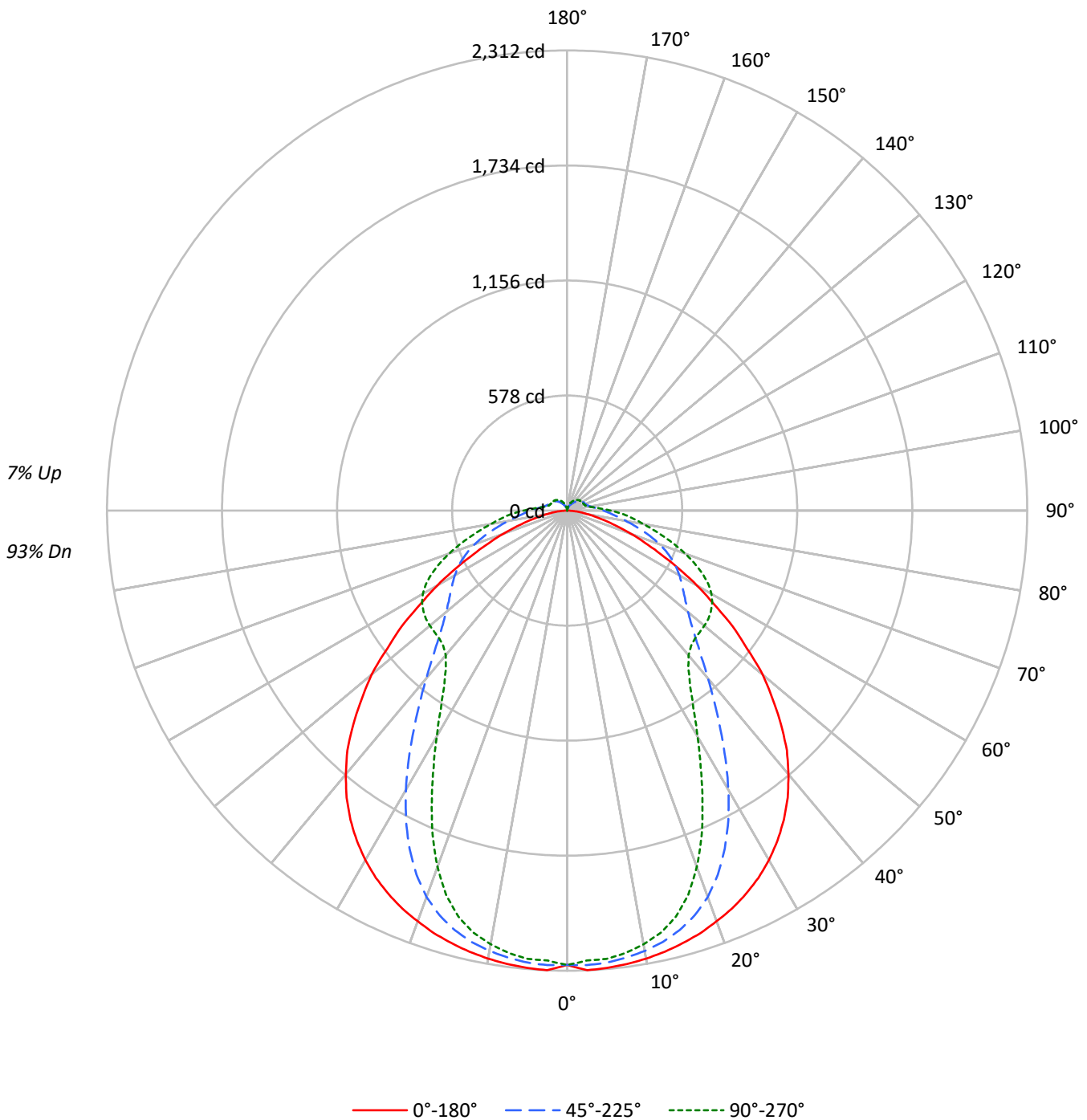
Lumens per Lamp: N/A
Luminaire Lumens: 5741.0 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 52
Input Voltage (V): NR
Input Current (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°	18448	18448	18448
5°	18661	18040	17758
10°	18654	17541	17027
15°	18660	16954	16056
20°	18668	16081	14419
25°	18676	14735	12211
30°	18587	12965	10043
35°	18322	11031	8416
40°	17786	9343	7609
45°	16843	8119	7551
50°	15560	7422	7816
55°	13701	7134	8090
60°	11560	7032	8201
65°	9299	6877	7945
70°	7470	6522	7328
75°	5631	5902	6502
80°	4159	5300	5784
85°	2781	5001	5321



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.0	3.8
10°-20°	610.5	10.6
20°-30°	853.4	14.9
30°-40°	885.1	15.4
40°-50°	817.7	14.2
50°-60°	730.1	12.7
60°-70°	591.7	10.3
70°-80°	393.5	6.9
80°-90°	225.4	3.9
90°-100°	124.7	2.2
100°-110°	84.4	1.5
110°-120°	70.3	1.2
120°-130°	57.2	1.0
130°-140°	41.2	0.7
140°-150°	24.9	0.4
150°-160°	11.9	0.2
160°-170°	3.1	0.1
170°-180°	0.0	0.0
0°-30°	1679.8	29.3
0°-40°	2564.9	44.7
0°-60°	4112.8	71.6
0°-90°	5323.3	92.7
90°-120°	279.4	4.9
90°-150°	402.6	7.0
90°-180°	418.0	7.3
0°-180°	5741.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2283	2283	2283	2283	2283	
5°	2307	2268	2280	2264	2261	219
15°	2249	2202	2183	2133	2112	636
25°	2125	2031	1874	1678	1609	979
35°	1898	1690	1343	1128	1077	1184
45°	1520	1204	915	882	909	1169
55°	1016	768	714	830	882	903
65°	519	464	581	712	750	524
75°	201	252	392	480	500	221
85°	41	117	231	296	304	47
90°	2	82	182	220	218	3
95°	2	69	145	155	150	1
105°	1	60	104	101	96	1
115°	1	55	92	91	88	1
125°	1	47	81	85	83	1
135°	2	35	64	75	75	1
145°	2	22	45	58	62	1
155°	2	14	28	37	45	1
165°	2	8	14	18	24	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°	2282.9	2282.9	2282.9	2282.9	2282.9
2.5°	2311.6	2273.9	2285.8	2275.9	2263.0
5°	2306.7	2268.0	2279.9	2264.0	2261.0
7.5°	2297.7	2259.0	2266.0	2247.1	2242.2
10°	2285.8	2245.2	2246.1	2219.4	2212.4
12.5°	2270.0	2225.3	2219.4	2182.6	2172.7
15°	2249.1	2201.5	2182.6	2133.0	2112.2
17.5°	2226.3	2170.7	2132.1	2055.7	2022.9
20°	2195.5	2133.0	2065.6	1949.5	1905.8
22.5°	2164.8	2087.4	1979.3	1824.5	1766.0
25°	2125.1	2030.9	1874.1	1677.7	1609.2
27.5°	2080.5	1964.4	1753.1	1526.9	1453.4
30°	2027.9	1884.0	1620.1	1379.0	1309.6
32.5°	1966.4	1793.7	1480.2	1246.1	1181.6
35°	1897.9	1689.6	1343.3	1128.0	1077.4
37.5°	1819.5	1575.5	1216.3	1032.8	1000.0
40°	1730.2	1451.5	1099.3	959.4	948.5
42.5°	1634.0	1330.4	999.1	911.8	921.7
45°	1519.9	1204.4	914.7	882.0	908.8
47.5°	1399.9	1081.4	846.3	865.1	903.8
50°	1283.8	967.3	792.7	854.2	899.8
52.5°	1139.9	865.1	750.0	844.3	893.9
55°	1015.9	767.9	714.3	830.4	882.0
57.5°	873.1	680.6	682.6	812.5	864.1
60°	754.0	601.2	651.8	787.7	837.3
62.5°	633.0	529.8	618.1	755.0	799.6
65°	518.9	464.3	581.4	712.3	750.0
67.5°	423.6	404.8	539.7	660.7	692.5
70°	343.3	350.2	494.1	603.2	630.0
72.5°	263.9	299.6	444.5	541.7	564.5
75°	201.4	252.0	391.9	480.2	500.0
77.5°	148.8	210.3	344.3	424.6	441.5
80°	105.2	173.6	299.6	376.0	388.9
82.5°	70.4	142.9	262.9	332.4	344.3
85°	40.7	117.1	231.2	295.6	303.6
87.5°	16.9	97.2	205.4	257.9	261.9
90°	2.0	82.3	182.5	220.2	218.3
92.5°	2.0	74.4	162.7	184.5	179.6
95°	2.0	69.4	144.8	154.8	149.8
97.5°	2.0	66.5	129.0	132.9	128.0
100°	1.0	64.5	118.1	118.1	113.1
102.5°	1.0	62.5	110.1	107.1	103.2
105°	1.0	60.5	104.2	101.2	96.2
107.5°	1.0	59.5	100.2	97.2	92.3
110°	1.0	57.5	97.2	94.3	90.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.0	56.6	95.2	93.3	88.3
115°	1.0	54.6	92.3	91.3	88.3
117.5°	1.0	52.6	90.3	90.3	87.3
120°	1.0	50.6	87.3	89.3	86.3
122.5°	1.0	48.6	84.3	87.3	84.3
125°	1.0	46.6	81.4	85.3	83.3
127.5°	2.0	43.7	77.4	83.3	81.4
130°	1.0	40.7	73.4	81.4	80.4
132.5°	2.0	37.7	69.4	78.4	78.4
135°	2.0	34.7	64.5	75.4	75.4
137.5°	2.0	30.8	59.5	71.4	72.4
140°	2.0	27.8	54.6	67.5	69.4
142.5°	2.0	24.8	49.6	63.5	66.5
145°	2.0	21.8	44.6	58.5	62.5
147.5°	2.0	19.8	39.7	52.6	58.5
150°	2.0	16.9	35.7	47.6	53.6
152.5°	2.0	14.9	31.7	42.7	49.6
155°	2.0	13.9	27.8	36.7	44.6
157.5°	2.0	11.9	23.8	31.7	39.7
160°	2.0	9.9	19.8	27.8	33.7
162.5°	2.0	8.9	16.9	22.8	29.8
165°	2.0	7.9	13.9	17.9	23.8
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)