

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-L930-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-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

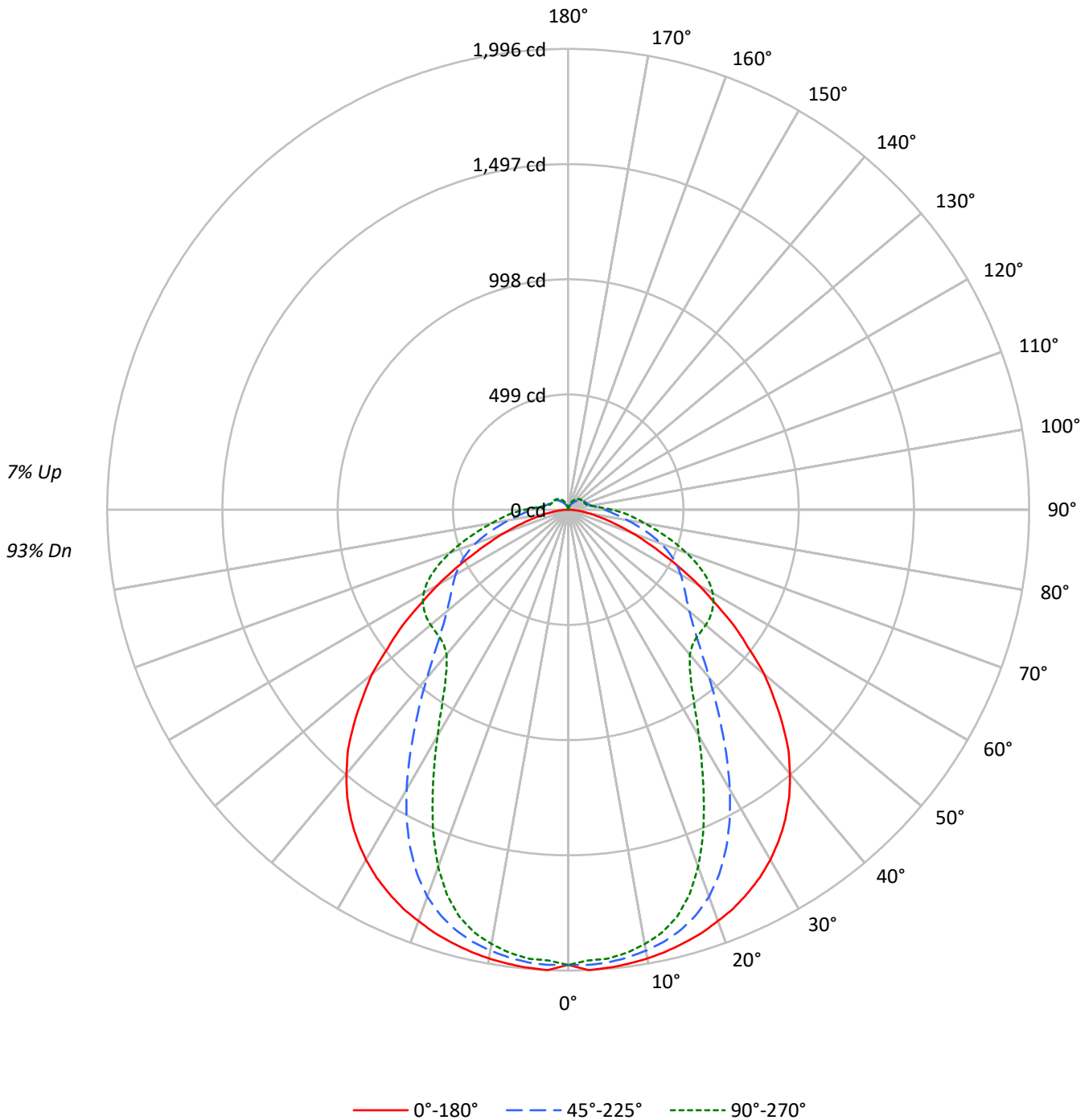
Lumens per Lamp: N/A
Luminaire Lumens: 4957.0 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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°	15928	15928	15928
5°	16112	15576	15333
10°	16107	15146	14702
15°	16112	14639	13864
20°	16119	13884	12451
25°	16126	12723	10544
30°	16048	11195	8671
35°	15820	9525	7267
40°	15358	8066	6569
45°	14544	7010	6520
50°	13436	6408	6749
55°	11831	6160	6984
60°	9981	6072	7081
65°	8028	5938	6860
70°	6449	5631	6327
75°	4863	5097	5614
80°	3589	4576	4994
85°	2398	4317	4593



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.5	3.8
10°-20°	527.1	10.6
20°-30°	736.8	14.9
30°-40°	764.3	15.4
40°-50°	706.1	14.2
50°-60°	630.4	12.7
60°-70°	510.9	10.3
70°-80°	339.8	6.9
80°-90°	194.6	3.9
90°-100°	107.7	2.2
100°-110°	72.9	1.5
110°-120°	60.7	1.2
120°-130°	49.4	1.0
130°-140°	35.6	0.7
140°-150°	21.5	0.4
150°-160°	10.3	0.2
160°-170°	2.7	0.1
170°-180°	0.0	0.0
0°-30°	1450.4	29.3
0°-40°	2214.7	44.7
0°-60°	3551.1	71.6
0°-90°	4596.4	92.7
90°-120°	241.3	4.9
90°-150°	347.7	7.0
90°-180°	361.0	7.3
0°-180°	4957.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1971	1971	1971	1971	1971	
5°	1992	1958	1968	1955	1952	189
15°	1942	1901	1885	1842	1824	549
25°	1835	1754	1618	1449	1390	846
35°	1639	1459	1160	974	930	1022
45°	1312	1040	790	762	785	1009
55°	877	663	617	717	762	780
65°	448	401	502	615	648	453
75°	174	218	338	415	432	191
85°	35	101	200	255	262	40
90°	2	71	158	190	188	3
95°	2	60	125	134	129	1
105°	1	52	90	87	83	1
115°	1	47	80	79	76	1
125°	1	40	70	74	72	1
135°	2	30	56	65	65	1
145°	2	19	38	50	54	1
155°	2	12	24	32	38	1
165°	2	7	12	15	21	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°	1971.1	1971.1	1971.1	1971.1	1971.1
2.5°	1995.9	1963.4	1973.7	1965.1	1954.0
5°	1991.7	1958.3	1968.5	1954.8	1952.3
7.5°	1984.0	1950.5	1956.5	1940.3	1936.0
10°	1973.7	1938.5	1939.4	1916.3	1910.3
12.5°	1960.0	1921.4	1916.3	1884.6	1876.0
15°	1942.0	1900.9	1884.6	1841.8	1823.8
17.5°	1922.3	1874.3	1840.9	1774.9	1746.7
20°	1895.7	1841.8	1783.5	1683.3	1645.6
22.5°	1869.2	1802.3	1709.0	1575.3	1524.8
25°	1834.9	1753.5	1618.2	1448.6	1389.5
27.5°	1796.3	1696.1	1513.7	1318.4	1255.0
30°	1750.9	1626.7	1398.9	1190.7	1130.7
32.5°	1697.8	1548.8	1278.1	1075.9	1020.2
35°	1638.7	1458.8	1159.9	974.0	930.3
37.5°	1571.1	1360.3	1050.2	891.7	863.5
40°	1494.0	1253.2	949.1	828.4	818.9
42.5°	1410.9	1148.7	862.6	787.2	795.8
45°	1312.4	1039.9	789.8	761.5	784.7
47.5°	1208.7	933.7	730.7	747.0	780.4
50°	1108.5	835.2	684.4	737.6	777.0
52.5°	984.3	747.0	647.6	729.0	771.8
55°	877.2	663.0	616.8	717.0	761.5
57.5°	753.8	587.6	589.4	701.6	746.1
60°	651.0	519.1	562.8	680.2	723.0
62.5°	546.5	457.4	533.7	651.9	690.4
65°	448.0	400.9	502.0	615.1	647.6
67.5°	365.8	349.5	466.0	570.5	597.9
70°	296.4	302.4	426.6	520.8	544.0
72.5°	227.9	258.7	383.8	467.7	487.4
75°	173.9	217.6	338.4	414.6	431.7
77.5°	128.5	181.6	297.2	366.6	381.2
80°	90.8	149.9	258.7	324.7	335.8
82.5°	60.8	123.4	227.0	287.0	297.2
85°	35.1	101.1	199.6	255.3	262.1
87.5°	14.6	83.9	177.3	222.7	226.1
90°	1.7	71.1	157.6	190.2	188.5
92.5°	1.7	64.2	140.5	159.3	155.0
95°	1.7	60.0	125.1	133.6	129.4
97.5°	1.7	57.4	111.4	114.8	110.5
100°	0.9	55.7	101.9	101.9	97.7
102.5°	0.9	54.0	95.1	92.5	89.1
105°	0.9	52.3	89.9	87.4	83.1
107.5°	0.9	51.4	86.5	83.9	79.7
110°	0.9	49.7	83.9	81.4	78.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.9	48.8	82.2	80.5	76.2
115°	0.9	47.1	79.7	78.8	76.2
117.5°	0.9	45.4	78.0	78.0	75.4
120°	0.9	43.7	75.4	77.1	74.5
122.5°	0.9	42.0	72.8	75.4	72.8
125°	0.9	40.3	70.2	73.7	72.0
127.5°	1.7	37.7	66.8	72.0	70.2
130°	0.9	35.1	63.4	70.2	69.4
132.5°	1.7	32.6	60.0	67.7	67.7
135°	1.7	30.0	55.7	65.1	65.1
137.5°	1.7	26.6	51.4	61.7	62.5
140°	1.7	24.0	47.1	58.3	60.0
142.5°	1.7	21.4	42.8	54.8	57.4
145°	1.7	18.8	38.5	50.5	54.0
147.5°	1.7	17.1	34.3	45.4	50.5
150°	1.7	14.6	30.8	41.1	46.3
152.5°	1.7	12.8	27.4	36.8	42.8
155°	1.7	12.0	24.0	31.7	38.5
157.5°	1.7	10.3	20.6	27.4	34.3
160°	1.7	8.6	17.1	24.0	29.1
162.5°	1.7	7.7	14.6	19.7	25.7
165°	1.7	6.9	12.0	15.4	20.6
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)