

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-LD5-60HL-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-LD5-60HL-SLN-UNV-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

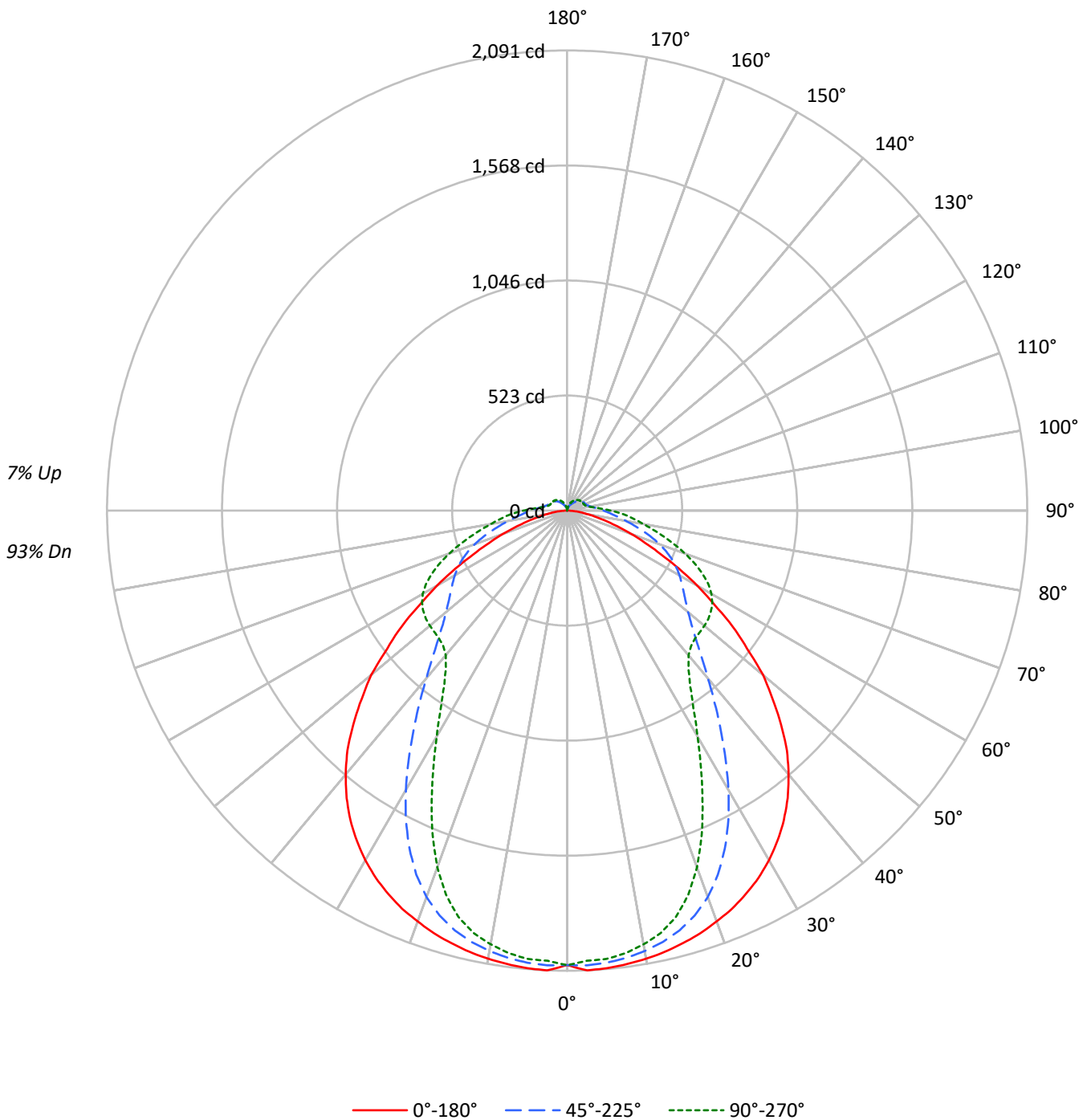
Lumens per Lamp: N/A
Luminaire Lumens: 5194.1 lumens
Efficiency: N/A
Efficacy: 120.8 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 43
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°	16690	16690	16690
5°	16883	16321	16066
10°	16876	15870	15405
15°	16882	15339	14526
20°	16890	14548	13046
25°	16896	13330	11048
30°	16816	11730	9086
35°	16577	9980	7615
40°	16091	8452	6884
45°	15239	7346	6832
50°	14078	6715	7071
55°	12396	6455	7319
60°	10460	6362	7420
65°	8412	6222	7189
70°	6758	5900	6630
75°	5095	5339	5883
80°	3759	4796	5234
85°	2514	4523	4814



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.4	3.8
10°-20°	552.3	10.6
20°-30°	772.0	14.9
30°-40°	800.8	15.4
40°-50°	739.8	14.2
50°-60°	660.5	12.7
60°-70°	535.3	10.3
70°-80°	356.0	6.9
80°-90°	203.9	3.9
90°-100°	112.8	2.2
100°-110°	76.4	1.5
110°-120°	63.6	1.2
120°-130°	51.7	1.0
130°-140°	37.3	0.7
140°-150°	22.5	0.4
150°-160°	10.8	0.2
160°-170°	2.8	0.1
170°-180°	0.0	0.0
0°-30°	1519.7	29.3
0°-40°	2320.6	44.7
0°-60°	3720.9	71.6
0°-90°	4816.2	92.7
90°-120°	252.8	4.9
90°-150°	364.3	7.0
90°-180°	378.0	7.3
0°-180°	5194.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2065	2065	2065	2065	2065	
5°	2087	2052	2063	2048	2046	199
15°	2035	1992	1975	1930	1911	575
25°	1923	1837	1696	1518	1456	886
35°	1717	1529	1215	1021	975	1071
45°	1375	1090	828	798	822	1057
55°	919	695	646	751	798	817
65°	469	420	526	644	679	475
75°	182	228	354	434	452	200
85°	37	106	209	268	275	42
90°	2	74	165	199	198	3
95°	2	63	131	140	136	1
105°	1	55	94	92	87	1
115°	1	49	84	83	80	1
125°	1	42	74	77	75	1
135°	2	31	58	68	68	1
145°	2	20	40	53	56	1
155°	2	13	25	33	40	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°	2065.3	2065.3	2065.3	2065.3	2065.3
2.5°	2091.4	2057.3	2068.0	2059.1	2047.4
5°	2086.9	2051.9	2062.6	2048.3	2045.6
7.5°	2078.8	2043.8	2050.1	2033.0	2028.5
10°	2068.0	2031.2	2032.1	2007.9	2001.6
12.5°	2053.7	2013.3	2007.9	1974.7	1965.7
15°	2034.8	1991.7	1974.7	1929.8	1911.0
17.5°	2014.2	1963.9	1928.9	1859.8	1830.2
20°	1986.4	1929.8	1868.8	1763.8	1724.3
22.5°	1958.5	1888.5	1790.7	1650.7	1597.7
25°	1922.6	1837.4	1695.5	1517.8	1455.9
27.5°	1882.2	1777.2	1586.0	1381.4	1315.0
30°	1834.7	1704.5	1465.8	1247.6	1184.8
32.5°	1779.0	1622.8	1339.2	1127.4	1069.0
35°	1717.1	1528.6	1215.3	1020.6	974.8
37.5°	1646.2	1425.4	1100.4	934.4	904.8
40°	1565.4	1313.2	994.5	868.0	858.1
42.5°	1478.3	1203.7	903.9	824.9	833.9
45°	1375.1	1089.7	827.6	798.0	822.2
47.5°	1266.5	978.4	765.6	782.7	817.7
50°	1161.5	875.1	717.2	772.8	814.1
52.5°	1031.3	782.7	678.6	763.8	808.7
55°	919.1	694.7	646.3	751.3	798.0
57.5°	789.9	615.7	617.5	735.1	781.8
60°	682.2	543.9	589.7	712.7	757.6
62.5°	572.7	479.3	559.2	683.1	723.5
65°	469.4	420.1	526.0	644.5	678.6
67.5°	383.3	366.2	488.3	597.8	626.5
70°	310.6	316.8	447.0	545.7	570.0
72.5°	238.8	271.1	402.1	490.1	510.7
75°	182.2	228.0	354.5	434.4	452.4
77.5°	134.6	190.3	311.5	384.2	399.4
80°	95.1	157.1	271.1	340.2	351.9
82.5°	63.7	129.3	237.9	300.7	311.5
85°	36.8	105.9	209.1	267.5	274.7
87.5°	15.3	88.0	185.8	233.4	237.0
90°	1.8	74.5	165.2	199.3	197.5
92.5°	1.8	67.3	147.2	167.0	162.5
95°	1.8	62.8	131.0	140.0	135.5
97.5°	1.8	60.1	116.7	120.3	115.8
100°	0.9	58.3	106.8	106.8	102.3
102.5°	0.9	56.5	99.6	96.9	93.3
105°	0.9	54.8	94.2	91.6	87.1
107.5°	0.9	53.9	90.7	88.0	83.5
110°	0.9	52.1	88.0	85.3	81.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.9	51.2	86.2	84.4	79.9
115°	0.9	49.4	83.5	82.6	79.9
117.5°	0.9	47.6	81.7	81.7	79.0
120°	0.9	45.8	79.0	80.8	78.1
122.5°	0.9	44.0	76.3	79.0	76.3
125°	0.9	42.2	73.6	77.2	75.4
127.5°	1.8	39.5	70.0	75.4	73.6
130°	0.9	36.8	66.4	73.6	72.7
132.5°	1.8	34.1	62.8	70.9	70.9
135°	1.8	31.4	58.3	68.2	68.2
137.5°	1.8	27.8	53.9	64.6	65.5
140°	1.8	25.1	49.4	61.0	62.8
142.5°	1.8	22.4	44.9	57.4	60.1
145°	1.8	19.7	40.4	53.0	56.5
147.5°	1.8	18.0	35.9	47.6	53.0
150°	1.8	15.3	32.3	43.1	48.5
152.5°	1.8	13.5	28.7	38.6	44.9
155°	1.8	12.6	25.1	33.2	40.4
157.5°	1.8	10.8	21.5	28.7	35.9
160°	1.8	9.0	18.0	25.1	30.5
162.5°	1.8	8.1	15.3	20.6	26.9
165°	1.8	7.2	12.6	16.2	21.5
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)