

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-SLC-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 (P27404)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-60HL-SLC-UNV-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

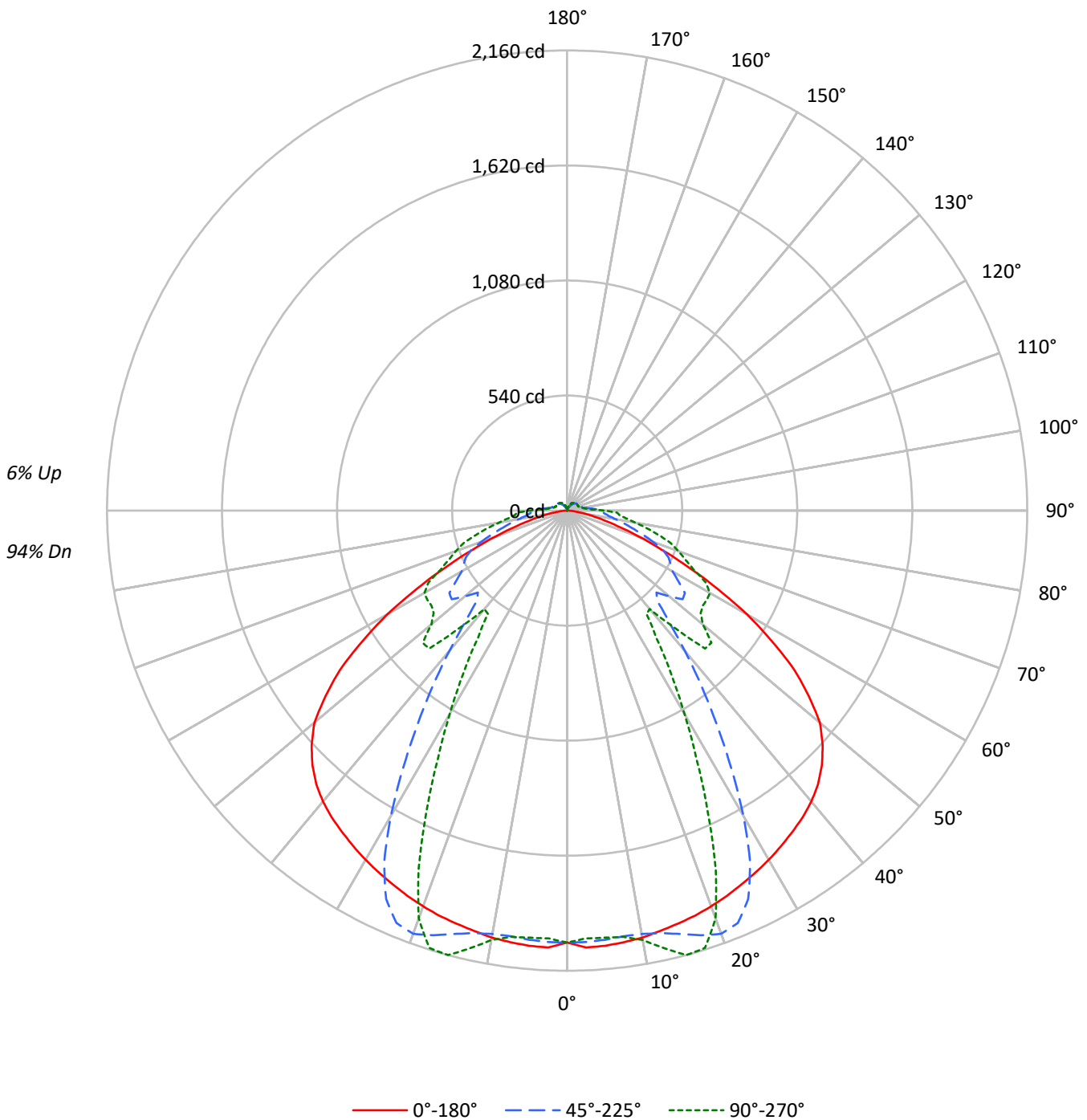
Lumens per Lamp: N/A
Luminaire Lumens: 5209.0 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	107	102	98	94	104	99	95	92	94	91	88	89	87	84	85	83	81	78
2	98	90	83	77	95	87	81	76	83	78	73	79	74	71	75	71	68	66
3	89	79	71	65	87	77	70	64	73	67	62	70	65	60	67	62	59	56
4	82	71	62	56	80	69	61	55	66	59	53	63	57	52	60	55	51	49
5	76	63	55	48	74	62	54	48	59	52	47	57	51	46	54	49	45	43
6	70	58	49	43	68	56	48	42	54	47	41	52	45	41	50	44	40	38
7	66	52	44	38	64	51	43	38	49	42	37	47	41	36	46	40	36	34
8	61	48	40	34	59	47	39	34	45	38	33	44	37	33	42	37	32	30
9	57	44	36	31	56	44	36	31	42	35	30	41	34	30	39	34	29	28
10	54	41	33	28	52	40	33	28	39	32	28	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16387	16387	16387
5°	16586	16003	15807
10°	16607	15759	15752
15°	16653	15981	16418
20°	16807	16457	15410
25°	17017	15817	11866
30°	17353	13247	8440
35°	17782	10032	5715
40°	18326	7294	4839
45°	18742	5290	7608
50°	18768	5859	7220
55°	17542	6742	7130
60°	14947	6169	7579
65°	11245	6222	6932
70°	7892	5664	6453
75°	5170	4746	5790
80°	3301	4065	4820
85°	1776	3863	4327



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.9	3.7
10°-20°	582.6	11.2
20°-30°	846.3	16.2
30°-40°	808.6	15.5
40°-50°	739.7	14.2
50°-60°	683.0	13.1
60°-70°	542.5	10.4
70°-80°	334.8	6.4
80°-90°	182.3	3.5
90°-100°	92.1	1.8
100°-110°	57.9	1.1
110°-120°	49.0	0.9
120°-130°	40.1	0.8
130°-140°	28.7	0.6
140°-150°	17.7	0.3
150°-160°	8.4	0.2
160°-170°	2.2	0.0
170°-180°	0.0	0.0
0°-30°	1621.9	31.1
0°-40°	2430.5	46.7
0°-60°	3853.1	74.0
0°-90°	4912.8	94.3
90°-120°	199.1	3.8
90°-150°	285.6	5.5
90°-180°	296.0	5.7
0°-180°	5209.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2028	2028	2028	2028	2028	
5°	2050	2019	2022	2012	2013	195
15°	2007	1980	2057	2134	2160	568
25°	1936	1974	2012	1703	1564	895
35°	1842	1812	1222	841	732	1155
45°	1691	1180	596	760	916	1300
55°	1301	605	675	726	777	1146
65°	628	392	526	639	654	635
75°	185	209	315	417	445	210
85°	26	89	179	243	247	33
90°	1	66	160	189	175	1
95°	0	62	110	98	92	0
105°	0	56	68	62	61	0
115°	0	46	66	58	56	0
125°	1	37	58	57	54	1
135°	1	26	47	51	49	1
145°	1	16	32	41	44	1
155°	2	10	20	26	31	1
165°	2	5	10	13	17	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°	2027.8	2027.8	2027.8	2027.8	2027.8
2.5°	2052.9	2023.3	2026.9	2020.6	2009.9
5°	2050.3	2018.8	2022.4	2011.7	2012.6
7.5°	2043.1	2010.8	2015.2	2013.5	2017.9
10°	2035.0	2000.9	2017.9	2033.2	2046.7
12.5°	2020.6	1990.1	2031.4	2076.3	2104.1
15°	2007.2	1980.2	2057.4	2133.7	2159.8
17.5°	1993.7	1976.6	2089.8	2156.2	2152.6
20°	1976.6	1974.9	2114.0	2091.5	2036.8
22.5°	1957.8	1975.7	2095.1	1930.9	1823.1
25°	1936.3	1974.0	2011.7	1702.9	1563.7
27.5°	1914.7	1965.9	1860.0	1453.3	1316.0
30°	1893.2	1944.3	1655.3	1225.3	1100.5
32.5°	1868.0	1897.7	1432.7	1023.3	908.4
35°	1842.0	1812.4	1221.7	841.1	731.6
37.5°	1815.1	1689.4	1032.3	681.3	611.3
40°	1782.8	1535.0	858.2	584.4	603.2
42.5°	1742.4	1360.9	704.7	613.1	744.2
45°	1691.2	1179.5	596.0	760.3	915.6
47.5°	1626.6	1005.4	569.1	870.7	919.2
50°	1548.5	845.6	625.7	834.8	831.2
52.5°	1430.0	712.7	683.1	761.2	789.9
55°	1300.7	605.0	675.0	726.2	777.4
57.5°	1137.3	532.3	619.4	719.0	778.3
60°	974.9	483.8	571.8	718.1	773.8
62.5°	795.3	439.9	547.6	701.1	734.3
65°	627.5	392.3	526.0	639.1	654.4
67.5°	481.1	343.8	488.3	570.0	600.5
70°	362.7	296.2	429.1	517.1	554.8
72.5°	261.2	251.3	368.0	470.4	509.9
75°	184.9	209.2	315.1	417.4	445.2
77.5°	127.5	170.6	270.2	359.1	381.5
80°	83.5	136.4	229.8	308.8	324.1
82.5°	50.3	109.5	199.3	270.2	278.3
85°	26.0	88.9	178.6	243.3	246.9
87.5°	8.1	74.5	167.0	230.7	235.2
90°	0.9	66.4	159.8	189.4	175.0
92.5°	0.0	62.8	138.2	129.3	115.8
95°	0.0	61.9	110.4	97.8	92.5
97.5°	0.0	60.1	90.7	81.7	79.0
100°	0.0	58.3	78.1	71.8	70.9
102.5°	0.0	57.5	70.9	65.5	64.6
105°	0.0	55.7	68.2	61.9	61.0
107.5°	0.0	53.0	66.4	60.1	58.3
110°	0.0	50.3	66.4	59.2	56.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	47.6	66.4	58.3	55.7
115°	0.0	45.8	65.5	58.3	55.7
117.5°	0.9	44.0	64.6	58.3	55.7
120°	0.0	42.2	62.8	58.3	54.8
122.5°	0.9	39.5	61.0	57.5	54.8
125°	0.9	36.8	58.3	56.6	53.9
127.5°	0.9	34.1	55.7	54.8	52.1
130°	0.9	31.4	53.0	53.9	51.2
132.5°	0.9	28.7	49.4	52.1	50.3
135°	0.9	26.0	46.7	51.2	49.4
137.5°	0.9	23.3	43.1	48.5	48.5
140°	0.9	20.6	39.5	46.7	47.6
142.5°	0.9	18.9	35.9	44.9	45.8
145°	0.9	16.2	32.3	41.3	44.0
147.5°	0.9	14.4	28.7	37.7	41.3
150°	0.9	12.6	25.1	34.1	37.7
152.5°	0.9	10.8	22.4	29.6	35.0
155°	1.8	9.9	19.7	26.0	31.4
157.5°	1.8	8.1	16.2	22.4	26.9
160°	1.8	7.2	14.4	18.9	24.2
162.5°	1.8	6.3	11.7	16.2	20.6
165°	1.8	5.4	9.9	12.6	17.1
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)