

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-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-LD5-60HL-SLN-UNV-L950-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

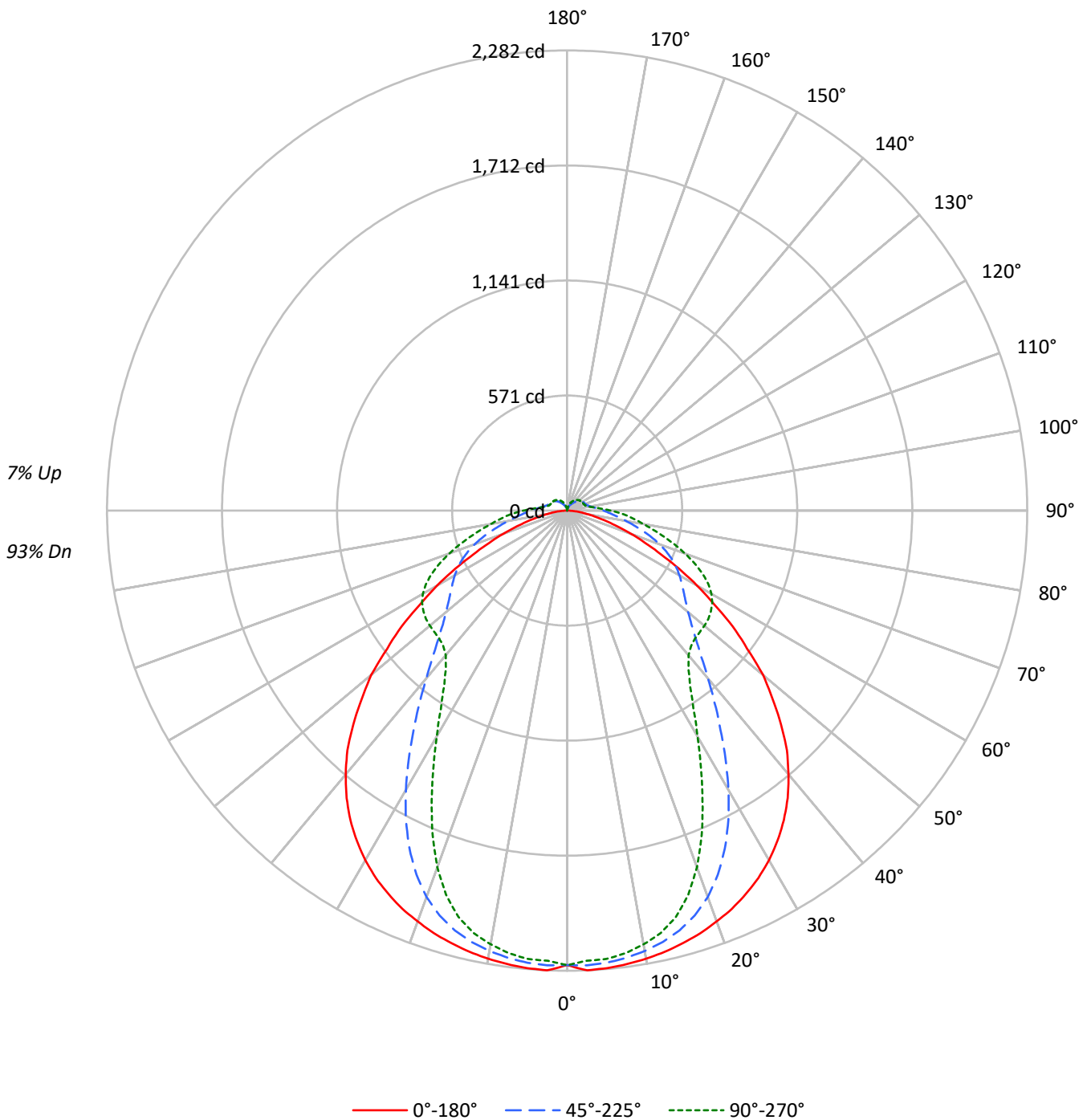
Lumens per Lamp: N/A
Luminaire Lumens: 5668.0 lumens
Efficiency: N/A
Efficacy: 131.8 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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°	18213	18213	18213
5°	18423	17811	17532
10°	18417	17319	16811
15°	18423	16738	15852
20°	18431	15876	14236
25°	18439	14548	12055
30°	18351	12800	9915
35°	18089	10891	8309
40°	17559	9224	7512
45°	16630	8016	7455
50°	15363	7328	7717
55°	13527	7043	7987
60°	11413	6943	8097
65°	9181	6789	7845
70°	7374	6439	7235
75°	5559	5827	6420
80°	4103	5233	5711
85°	2746	4936	5252



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.2	3.8
10°-20°	602.7	10.6
20°-30°	842.5	14.9
30°-40°	873.9	15.4
40°-50°	807.3	14.2
50°-60°	720.8	12.7
60°-70°	584.1	10.3
70°-80°	388.5	6.9
80°-90°	222.5	3.9
90°-100°	123.1	2.2
100°-110°	83.4	1.5
110°-120°	69.4	1.2
120°-130°	56.4	1.0
130°-140°	40.7	0.7
140°-150°	24.5	0.4
150°-160°	11.8	0.2
160°-170°	3.1	0.1
170°-180°	0.0	0.0
0°-30°	1658.4	29.3
0°-40°	2532.3	44.7
0°-60°	4060.4	71.6
0°-90°	5255.6	92.7
90°-120°	275.9	4.9
90°-150°	397.5	7.0
90°-180°	412.0	7.3
0°-180°	5668.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2254	2254	2254	2254	2254	
5°	2277	2239	2251	2235	2232	217
15°	2220	2174	2155	2106	2085	627
25°	2098	2005	1850	1656	1589	967
35°	1874	1668	1326	1114	1064	1169
45°	1501	1189	903	871	897	1154
55°	1003	758	705	820	871	892
65°	512	458	574	703	740	518
75°	199	249	387	474	494	218
85°	40	116	228	292	300	46
90°	2	81	180	217	216	3
95°	2	69	143	153	148	1
105°	1	60	103	100	95	1
115°	1	54	91	90	87	1
125°	1	46	80	84	82	1
135°	2	34	64	74	74	1
145°	2	22	44	58	62	1
155°	2	14	27	36	44	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°	2253.8	2253.8	2253.8	2253.8	2253.8
2.5°	2282.2	2245.0	2256.8	2247.0	2234.2
5°	2277.3	2239.1	2250.9	2235.2	2232.3
7.5°	2268.5	2230.3	2237.2	2218.6	2213.7
10°	2256.8	2216.6	2217.6	2191.1	2184.3
12.5°	2241.1	2197.0	2191.1	2154.9	2145.1
15°	2220.5	2173.5	2154.9	2105.9	2085.4
17.5°	2198.0	2143.1	2104.9	2029.5	1997.2
20°	2167.6	2105.9	2039.3	1924.7	1881.6
22.5°	2137.3	2060.9	1954.1	1801.3	1743.5
25°	2098.1	2005.0	1850.3	1656.3	1588.7
27.5°	2054.0	1939.4	1730.8	1507.4	1435.0
30°	2002.1	1860.1	1599.5	1361.5	1292.9
32.5°	1941.4	1770.9	1461.4	1230.2	1166.6
35°	1873.8	1668.1	1326.2	1113.7	1063.7
37.5°	1796.4	1555.4	1200.9	1019.7	987.3
40°	1708.2	1433.0	1085.3	947.2	936.4
42.5°	1613.2	1313.5	986.4	900.2	910.0
45°	1500.6	1189.1	903.1	870.8	897.2
47.5°	1382.1	1067.7	835.5	854.1	892.3
50°	1267.5	955.0	782.6	843.3	888.4
52.5°	1125.4	854.1	740.5	833.6	882.5
55°	1003.0	758.1	705.2	819.8	870.8
57.5°	862.0	671.9	673.9	802.2	853.1
60°	744.4	593.6	643.5	777.7	826.7
62.5°	624.9	523.1	610.2	745.4	789.5
65°	512.3	458.4	574.0	703.3	740.5
67.5°	418.2	399.6	532.8	652.3	683.7
70°	338.9	345.8	487.8	595.5	622.0
72.5°	260.5	295.8	438.8	534.8	557.3
75°	198.8	248.8	386.9	474.1	493.7
77.5°	146.9	207.7	339.9	419.2	435.9
80°	103.8	171.4	295.8	371.2	384.0
82.5°	69.5	141.0	259.6	328.1	339.9
85°	40.2	115.6	228.2	291.9	299.7
87.5°	16.7	96.0	202.8	254.7	258.6
90°	2.0	81.3	180.2	217.4	215.5
92.5°	2.0	73.5	160.6	182.2	177.3
95°	2.0	68.6	143.0	152.8	147.9
97.5°	2.0	65.6	127.3	131.3	126.4
100°	1.0	63.7	116.6	116.6	111.7
102.5°	1.0	61.7	108.7	105.8	101.9
105°	1.0	59.7	102.8	99.9	95.0
107.5°	1.0	58.8	98.9	96.0	91.1
110°	1.0	56.8	96.0	93.1	89.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.0	55.8	94.0	92.1	87.2
115°	1.0	53.9	91.1	90.1	87.2
117.5°	1.0	51.9	89.1	89.1	86.2
120°	1.0	50.0	86.2	88.2	85.2
122.5°	1.0	48.0	83.3	86.2	83.3
125°	1.0	46.0	80.3	84.2	82.3
127.5°	2.0	43.1	76.4	82.3	80.3
130°	1.0	40.2	72.5	80.3	79.3
132.5°	2.0	37.2	68.6	77.4	77.4
135°	2.0	34.3	63.7	74.4	74.4
137.5°	2.0	30.4	58.8	70.5	71.5
140°	2.0	27.4	53.9	66.6	68.6
142.5°	2.0	24.5	49.0	62.7	65.6
145°	2.0	21.5	44.1	57.8	61.7
147.5°	2.0	19.6	39.2	51.9	57.8
150°	2.0	16.7	35.3	47.0	52.9
152.5°	2.0	14.7	31.3	42.1	49.0
155°	2.0	13.7	27.4	36.2	44.1
157.5°	2.0	11.8	23.5	31.3	39.2
160°	2.0	9.8	19.6	27.4	33.3
162.5°	2.0	8.8	16.7	22.5	29.4
165°	2.0	7.8	13.7	17.6	23.5
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)