

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-LD5-52HL-SLC-UNV-L850-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-LD5-52HL-SLC-UNV-L850-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

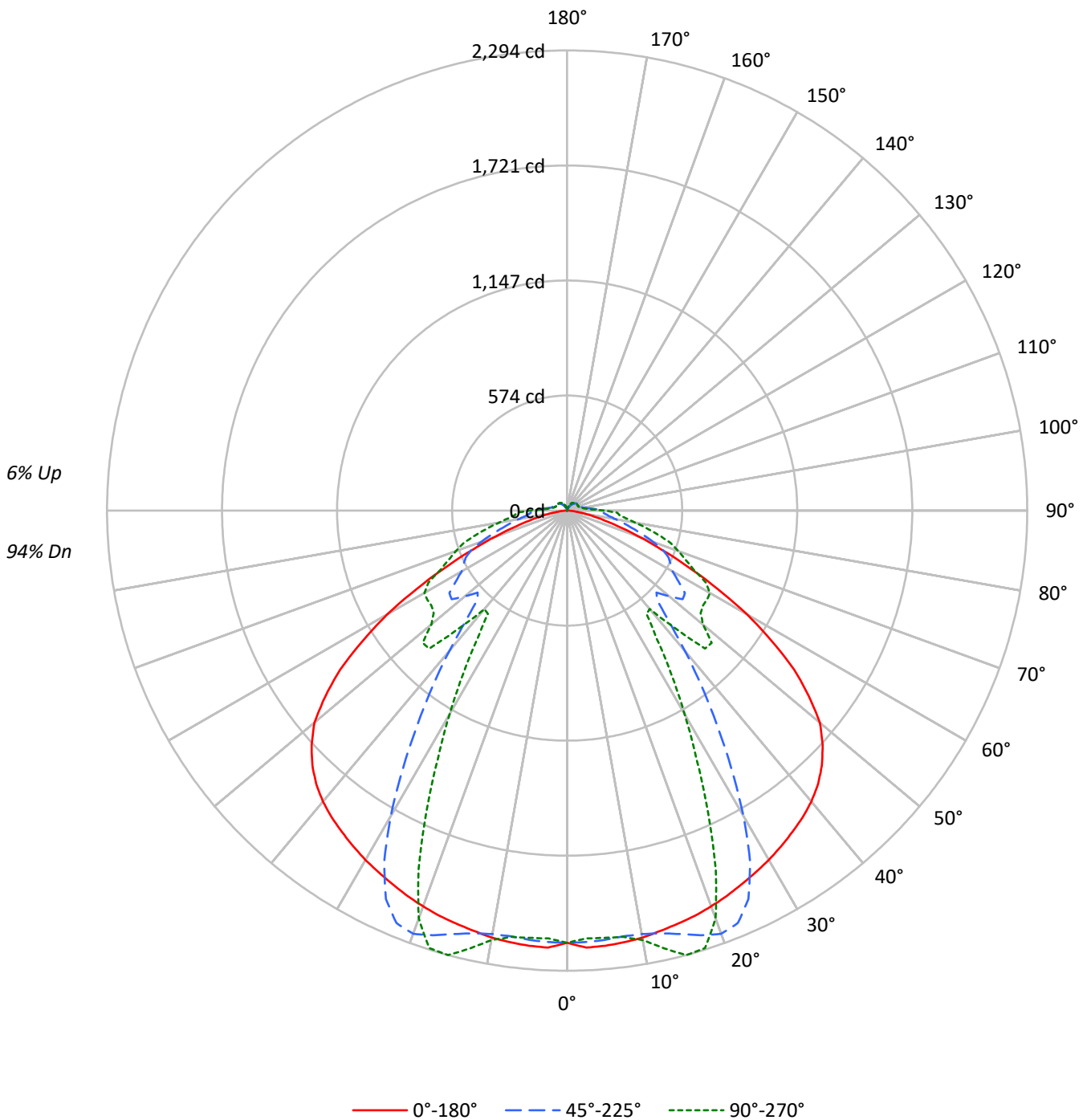
Lumens per Lamp: N/A
Luminaire Lumens: 5533.0 lumens
Efficiency: N/A
Efficacy: 149.5 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 37
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	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°	17406	17406	17406
5°	17618	16998	16789
10°	17640	16740	16732
15°	17688	16975	17439
20°	17853	17481	16369
25°	18075	16800	12604
30°	18431	14070	8965
35°	18889	10656	6071
40°	19465	7746	5140
45°	19908	5619	8082
50°	19936	6223	7669
55°	18634	7161	7573
60°	15876	6553	8050
65°	11944	6608	7364
70°	8382	6016	6854
75°	5492	5041	6150
80°	3506	4318	5119
85°	1892	4103	4595



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.9	3.7
10°-20°	618.8	11.2
20°-30°	899.0	16.2
30°-40°	858.9	15.5
40°-50°	785.7	14.2
50°-60°	725.4	13.1
60°-70°	576.2	10.4
70°-80°	355.7	6.4
80°-90°	193.7	3.5
90°-100°	97.9	1.8
100°-110°	61.5	1.1
110°-120°	52.1	0.9
120°-130°	42.6	0.8
130°-140°	30.5	0.6
140°-150°	18.8	0.3
150°-160°	8.9	0.2
160°-170°	2.3	0.0
170°-180°	0.0	0.0
0°-30°	1722.7	31.1
0°-40°	2581.6	46.7
0°-60°	4092.8	74.0
0°-90°	5218.3	94.3
90°-120°	211.5	3.8
90°-150°	303.4	5.5
90°-180°	315.0	5.7
0°-180°	5533.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2154	2154	2154	2154	2154	
5°	2178	2144	2148	2137	2138	207
15°	2132	2103	2185	2266	2294	603
25°	2057	2097	2137	1809	1661	951
35°	1957	1925	1298	893	777	1227
45°	1796	1253	633	808	973	1381
55°	1382	643	717	771	826	1217
65°	666	417	559	679	695	674
75°	196	222	335	443	473	223
85°	28	94	190	258	262	35
90°	1	71	170	201	186	1
95°	0	66	117	104	98	0
105°	0	59	72	66	65	0
115°	0	49	70	62	59	0
125°	1	39	62	60	57	1
135°	1	28	50	54	52	1
145°	1	17	34	44	47	1
155°	2	10	21	28	33	1
165°	2	6	10	13	18	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2153.9	2153.9	2153.9	2153.9	2153.9
2.5°	2180.6	2149.2	2153.0	2146.3	2134.9
5°	2177.8	2144.4	2148.2	2136.8	2137.7
7.5°	2170.2	2135.8	2140.6	2138.7	2143.5
10°	2161.6	2125.3	2143.5	2159.7	2174.0
12.5°	2146.3	2113.9	2157.8	2205.4	2235.0
15°	2132.0	2103.4	2185.4	2266.5	2294.1
17.5°	2117.7	2099.6	2219.7	2290.3	2286.5
20°	2099.6	2097.7	2245.5	2221.6	2163.5
22.5°	2079.6	2098.6	2225.5	2051.0	1936.5
25°	2056.7	2096.7	2136.8	1808.8	1661.0
27.5°	2033.8	2088.2	1975.6	1543.7	1397.8
30°	2010.9	2065.3	1758.2	1301.5	1169.0
32.5°	1984.2	2015.7	1521.8	1087.0	964.9
35°	1956.6	1925.1	1297.7	893.4	777.1
37.5°	1928.0	1794.5	1096.5	723.7	649.3
40°	1893.6	1630.5	911.5	620.7	640.7
42.5°	1850.7	1445.5	748.5	651.2	790.4
45°	1796.4	1252.9	633.1	807.6	972.6
47.5°	1727.7	1067.9	604.5	924.9	976.4
50°	1644.8	898.2	664.6	886.7	882.9
52.5°	1518.9	757.1	725.6	808.6	839.1
55°	1381.6	642.7	717.0	771.4	825.7
57.5°	1208.1	565.4	657.9	763.7	826.7
60°	1035.5	513.9	607.4	762.8	821.9
62.5°	844.8	467.2	581.6	744.7	780.0
65°	666.5	416.7	558.7	678.9	695.1
67.5°	511.1	365.2	518.7	605.5	637.9
70°	385.2	314.7	455.8	549.2	589.3
72.5°	277.5	267.0	390.9	499.6	541.6
75°	196.4	222.2	334.7	443.4	472.9
77.5°	135.4	181.2	287.0	381.4	405.2
80°	88.7	144.9	244.1	328.0	344.2
82.5°	53.4	116.3	211.7	287.0	295.6
85°	27.7	94.4	189.7	258.4	262.2
87.5°	8.6	79.1	177.3	245.0	249.8
90°	1.0	70.6	169.7	201.2	185.9
92.5°	0.0	66.7	146.8	137.3	123.0
95°	0.0	65.8	117.3	103.9	98.2
97.5°	0.0	63.9	96.3	86.8	83.9
100°	0.0	62.0	83.0	76.3	75.3
102.5°	0.0	61.0	75.3	69.6	68.7
105°	0.0	59.1	72.5	65.8	64.8
107.5°	0.0	56.3	70.6	63.9	62.0
110°	0.0	53.4	70.6	62.9	60.1



TEST NUMBER: P#

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	50.5	70.6	62.0	59.1
115°	0.0	48.6	69.6	62.0	59.1
117.5°	1.0	46.7	68.7	62.0	59.1
120°	0.0	44.8	66.7	62.0	58.2
122.5°	1.0	42.0	64.8	61.0	58.2
125°	1.0	39.1	62.0	60.1	57.2
127.5°	1.0	36.2	59.1	58.2	55.3
130°	1.0	33.4	56.3	57.2	54.3
132.5°	1.0	30.5	52.4	55.3	53.4
135°	1.0	27.7	49.6	54.3	52.4
137.5°	1.0	24.8	45.8	51.5	51.5
140°	1.0	21.9	42.0	49.6	50.5
142.5°	1.0	20.0	38.1	47.7	48.6
145°	1.0	17.2	34.3	43.9	46.7
147.5°	1.0	15.3	30.5	40.0	43.9
150°	1.0	13.3	26.7	36.2	40.0
152.5°	1.0	11.4	23.8	31.5	37.2
155°	1.9	10.5	21.0	27.7	33.4
157.5°	1.9	8.6	17.2	23.8	28.6
160°	1.9	7.6	15.3	20.0	25.7
162.5°	1.9	6.7	12.4	17.2	21.9
165°	1.9	5.7	10.5	13.3	18.1
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)