

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-L835-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-L835-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
CLEAR SQUARE LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

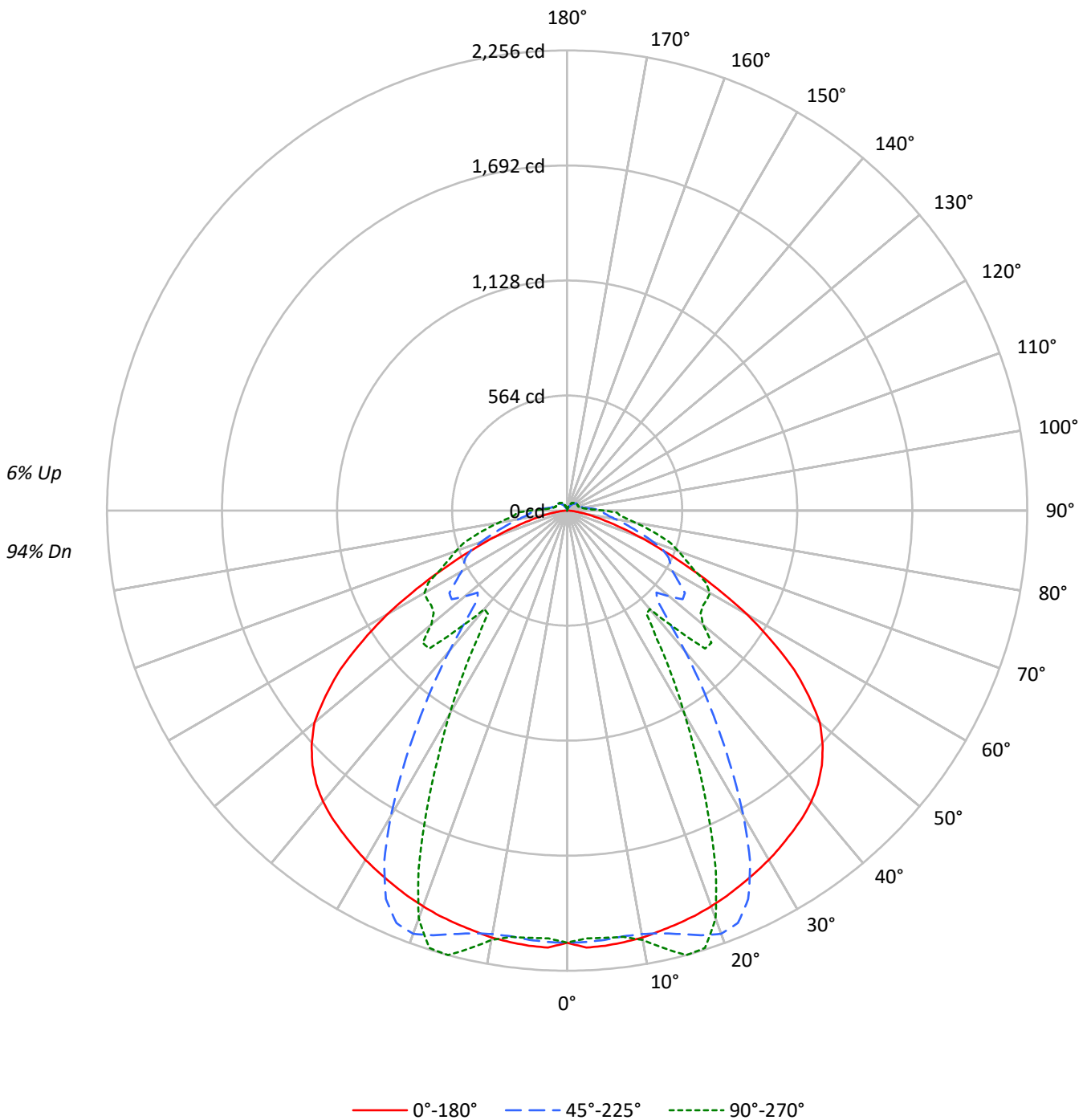
Lumens per Lamp: N/A  
Luminaire Lumens: 5441.0 lumens  
Efficiency: N/A  
Efficacy: 147.1 lumens/watt  
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 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	64	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°	17116	17116	17116
5°	17325	16716	16511
10°	17346	16461	16453
15°	17395	16693	17149
20°	17556	17190	16097
25°	17774	16521	12395
30°	18125	13837	8816
35°	18574	10479	5970
40°	19142	7618	5055
45°	19576	5526	7947
50°	19604	6119	7542
55°	18323	7042	7448
60°	15613	6444	7916
65°	11745	6500	7241
70°	8242	5916	6740
75°	5402	4957	6048
80°	3447	4246	5035
85°	1858	4036	4520



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	201.5	3.7
10°-20°	608.6	11.2
20°-30°	884.0	16.2
30°-40°	844.6	15.5
40°-50°	772.6	14.2
50°-60°	713.4	13.1
60°-70°	566.7	10.4
70°-80°	349.7	6.4
80°-90°	190.4	3.5
90°-100°	96.3	1.8
100°-110°	60.5	1.1
110°-120°	51.2	0.9
120°-130°	41.8	0.8
130°-140°	30.0	0.6
140°-150°	18.5	0.3
150°-160°	8.8	0.2
160°-170°	2.3	0.0
170°-180°	0.0	0.0
0°-30°	1694.1	31.1
0°-40°	2538.7	46.7
0°-60°	4024.7	74.0
0°-90°	5131.6	94.3
90°-120°	208.0	3.8
90°-150°	298.3	5.5
90°-180°	309.0	5.7
0°-180°	5441.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2118	2118	2118	2118	2118	
5°	2142	2109	2112	2101	2102	204
15°	2097	2068	2149	2229	2256	593
25°	2022	2062	2101	1779	1633	935
35°	1924	1893	1276	879	764	1206
45°	1766	1232	623	794	956	1358
55°	1359	632	705	759	812	1197
65°	655	410	550	668	684	663
75°	193	218	329	436	465	219
85°	27	93	187	254	258	35
90°	1	69	167	198	183	1
95°	0	65	115	102	97	0
105°	0	58	71	65	64	0
115°	0	48	68	61	58	0
125°	1	38	61	59	56	1
135°	1	27	49	53	52	1
145°	1	17	34	43	46	1
155°	2	10	21	27	33	1
165°	2	6	10	13	18	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°	2118.1	2118.1	2118.1	2118.1	2118.1
2.5°	2144.4	2113.4	2117.2	2110.6	2099.4
5°	2141.6	2108.8	2112.5	2101.3	2102.2
7.5°	2134.1	2100.3	2105.0	2103.1	2107.8
10°	2125.6	2090.0	2107.8	2123.8	2137.8
12.5°	2110.6	2078.7	2121.9	2168.8	2197.8
15°	2096.6	2068.4	2149.1	2228.8	2256.0
17.5°	2082.5	2064.7	2182.8	2252.2	2248.5
20°	2064.7	2062.8	2208.1	2184.7	2127.5
22.5°	2045.0	2063.7	2188.5	2016.9	1904.3
25°	2022.5	2061.9	2101.3	1778.7	1633.4
27.5°	2000.0	2053.4	1942.8	1518.0	1374.6
30°	1977.5	2030.9	1729.0	1279.9	1149.5
32.5°	1951.2	1982.2	1496.5	1068.9	948.9
35°	1924.0	1893.1	1276.1	878.6	764.2
37.5°	1895.9	1764.6	1078.3	711.7	638.5
40°	1862.2	1603.4	896.4	610.4	630.1
42.5°	1820.0	1421.5	736.0	640.4	777.3
45°	1766.5	1232.1	622.6	794.2	956.4
47.5°	1699.0	1050.2	594.5	909.5	960.1
50°	1617.4	883.3	653.5	872.0	868.3
52.5°	1493.7	744.5	713.5	795.1	825.1
55°	1358.6	632.0	705.1	758.6	812.0
57.5°	1188.0	556.0	647.0	751.0	812.9
60°	1018.3	505.4	597.3	750.1	808.2
62.5°	830.7	459.4	572.0	732.3	767.0
65°	655.4	409.7	549.5	667.6	683.5
67.5°	502.6	359.1	510.1	595.4	627.3
70°	378.8	309.4	448.2	540.1	579.5
72.5°	272.9	262.5	384.4	491.3	532.6
75°	193.2	218.5	329.1	436.0	465.1
77.5°	133.1	178.2	282.2	375.1	398.5
80°	87.2	142.5	240.0	322.5	338.5
82.5°	52.5	114.4	208.2	282.2	290.7
85°	27.2	92.8	186.6	254.1	257.9
87.5°	8.4	77.8	174.4	241.0	245.7
90°	0.9	69.4	166.9	197.8	182.8
92.5°	0.0	65.6	144.4	135.0	121.0
95°	0.0	64.7	115.3	102.2	96.6
97.5°	0.0	62.8	94.7	85.3	82.5
100°	0.0	60.9	81.6	75.0	74.1
102.5°	0.0	60.0	74.1	68.4	67.5
105°	0.0	58.1	71.3	64.7	63.8
107.5°	0.0	55.3	69.4	62.8	60.9
110°	0.0	52.5	69.4	61.9	59.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	49.7	69.4	60.9	58.1
115°	0.0	47.8	68.4	60.9	58.1
117.5°	0.9	45.9	67.5	60.9	58.1
120°	0.0	44.1	65.6	60.9	57.2
122.5°	0.9	41.3	63.8	60.0	57.2
125°	0.9	38.4	60.9	59.1	56.3
127.5°	0.9	35.6	58.1	57.2	54.4
130°	0.9	32.8	55.3	56.3	53.4
132.5°	0.9	30.0	51.6	54.4	52.5
135°	0.9	27.2	48.8	53.4	51.6
137.5°	0.9	24.4	45.0	50.6	50.6
140°	0.9	21.6	41.3	48.8	49.7
142.5°	0.9	19.7	37.5	46.9	47.8
145°	0.9	16.9	33.8	43.1	45.9
147.5°	0.9	15.0	30.0	39.4	43.1
150°	0.9	13.1	26.3	35.6	39.4
152.5°	0.9	11.3	23.4	30.9	36.6
155°	1.9	10.3	20.6	27.2	32.8
157.5°	1.9	8.4	16.9	23.4	28.1
160°	1.9	7.5	15.0	19.7	25.3
162.5°	1.9	6.6	12.2	16.9	21.6
165°	1.9	5.6	10.3	13.1	17.8
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)