

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-LD5-55HL-SLC-UNV-L830-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-LD5-55HL-SLC-UNV-L830-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
CLEAR SQUARE LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

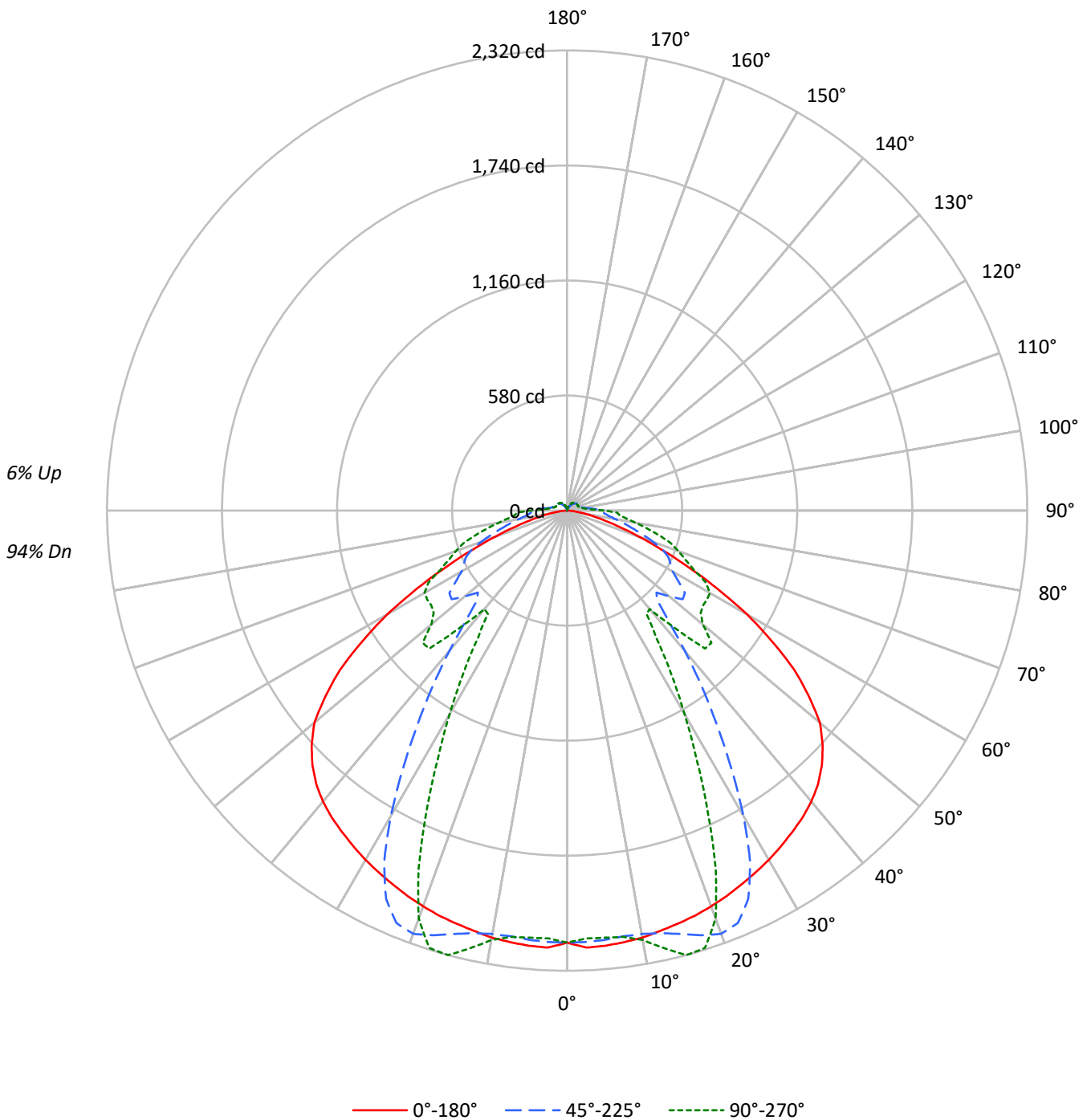
Lumens per Lamp: N/A  
Luminaire Lumens: 5595.0 lumens  
Efficiency: N/A  
Efficacy: 143.5 lumens/watt  
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 39  
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°	17601	17601	17601
5°	17815	17189	16978
10°	17838	16928	16919
15°	17887	17166	17634
20°	18053	17676	16552
25°	18277	16988	12745
30°	18639	14228	9066
35°	19100	10776	6139
40°	19684	7834	5198
45°	20130	5683	8172
50°	20159	6292	7755
55°	18843	7242	7659
60°	16054	6627	8140
65°	12078	6683	7446
70°	8475	6084	6931
75°	5553	5097	6219
80°	3546	4366	5177
85°	1913	4151	4646



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	207.2	3.7
10°-20°	625.8	11.2
20°-30°	909.0	16.2
30°-40°	868.5	15.5
40°-50°	794.5	14.2
50°-60°	733.6	13.1
60°-70°	582.7	10.4
70°-80°	359.7	6.4
80°-90°	195.8	3.5
90°-100°	99.0	1.8
100°-110°	62.2	1.1
110°-120°	52.7	0.9
120°-130°	43.0	0.8
130°-140°	30.9	0.6
140°-150°	19.0	0.3
150°-160°	9.0	0.2
160°-170°	2.3	0.0
170°-180°	0.0	0.0
0°-30°	1742.0	31.1
0°-40°	2610.6	46.7
0°-60°	4138.6	74.0
0°-90°	5276.8	94.3
90°-120°	213.9	3.8
90°-150°	306.8	5.5
90°-180°	318.0	5.7
0°-180°	5595.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2178	2178	2178	2178	2178	
5°	2202	2168	2172	2161	2162	210
15°	2156	2127	2210	2292	2320	610
25°	2080	2120	2161	1829	1680	961
35°	1978	1947	1312	903	786	1241
45°	1816	1267	640	817	984	1396
55°	1397	650	725	780	835	1230
65°	674	421	565	686	703	682
75°	199	225	338	448	478	225
85°	28	96	192	261	265	36
90°	1	71	172	203	188	1
95°	0	66	119	105	99	0
105°	0	60	73	66	66	0
115°	0	49	70	63	60	0
125°	1	40	63	61	58	1
135°	1	28	50	55	53	1
145°	1	17	35	44	47	1
155°	2	11	21	28	34	1
165°	2	6	11	14	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°	2178.1	2178.1	2178.1	2178.1	2178.1
2.5°	2205.1	2173.3	2177.1	2170.4	2158.8
5°	2202.2	2168.4	2172.3	2160.7	2161.7
7.5°	2194.5	2159.8	2164.6	2162.7	2167.5
10°	2185.8	2149.2	2167.5	2183.9	2198.3
12.5°	2170.4	2137.6	2181.9	2230.1	2260.0
15°	2155.9	2127.0	2209.9	2291.9	2319.8
17.5°	2141.4	2123.1	2244.6	2316.0	2312.1
20°	2123.1	2121.2	2270.6	2246.5	2187.7
22.5°	2102.9	2122.2	2250.4	2073.9	1958.2
25°	2079.7	2120.2	2160.7	1829.0	1679.6
27.5°	2056.6	2111.6	1997.8	1561.0	1413.5
30°	2033.5	2088.4	1777.9	1316.1	1182.1
32.5°	2006.5	2038.3	1538.8	1099.2	975.7
35°	1978.5	1946.7	1312.2	903.4	785.8
37.5°	1949.6	1814.6	1108.8	731.8	656.6
40°	1914.9	1648.7	921.8	627.7	647.9
42.5°	1871.5	1461.7	756.9	658.5	799.3
45°	1816.5	1266.9	640.2	816.7	983.5
47.5°	1747.1	1079.9	611.3	935.3	987.3
50°	1663.2	908.3	672.0	896.7	892.8
52.5°	1535.9	765.6	733.7	817.6	848.5
55°	1397.1	649.9	725.1	780.0	835.0
57.5°	1221.6	571.8	665.3	772.3	835.9
60°	1047.1	519.7	614.2	771.3	831.1
62.5°	854.3	472.4	588.1	753.0	788.7
65°	674.0	421.3	565.0	686.5	702.9
67.5°	516.8	369.3	524.5	612.3	645.0
70°	389.5	318.2	460.9	555.4	595.9
72.5°	280.6	270.0	395.3	505.2	547.7
75°	198.6	224.7	338.4	448.3	478.2
77.5°	136.9	183.2	290.2	385.7	409.8
80°	89.7	146.6	246.8	331.7	348.1
82.5°	54.0	117.6	214.0	290.2	298.9
85°	28.0	95.5	191.9	261.3	265.1
87.5°	8.7	80.0	179.3	247.8	252.6
90°	1.0	71.3	171.6	203.4	188.0
92.5°	0.0	67.5	148.5	138.8	124.4
95°	0.0	66.5	118.6	105.1	99.3
97.5°	0.0	64.6	97.4	87.7	84.8
100°	0.0	62.7	83.9	77.1	76.2
102.5°	0.0	61.7	76.2	70.4	69.4
105°	0.0	59.8	73.3	66.5	65.6
107.5°	0.0	56.9	71.3	64.6	62.7
110°	0.0	54.0	71.3	63.6	60.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	51.1	71.3	62.7	59.8
115°	0.0	49.2	70.4	62.7	59.8
117.5°	1.0	47.2	69.4	62.7	59.8
120°	0.0	45.3	67.5	62.7	58.8
122.5°	1.0	42.4	65.6	61.7	58.8
125°	1.0	39.5	62.7	60.7	57.9
127.5°	1.0	36.6	59.8	58.8	55.9
130°	1.0	33.7	56.9	57.9	55.0
132.5°	1.0	30.9	53.0	55.9	54.0
135°	1.0	28.0	50.1	55.0	53.0
137.5°	1.0	25.1	46.3	52.1	52.1
140°	1.0	22.2	42.4	50.1	51.1
142.5°	1.0	20.2	38.6	48.2	49.2
145°	1.0	17.4	34.7	44.4	47.2
147.5°	1.0	15.4	30.9	40.5	44.4
150°	1.0	13.5	27.0	36.6	40.5
152.5°	1.0	11.6	24.1	31.8	37.6
155°	1.9	10.6	21.2	28.0	33.7
157.5°	1.9	8.7	17.4	24.1	28.9
160°	1.9	7.7	15.4	20.2	26.0
162.5°	1.9	6.7	12.5	17.4	22.2
165°	1.9	5.8	10.6	13.5	18.3
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)