

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-LD5-53SL-SLN-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 (P27402)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SNLED-LD5-53SL-SLN-UNV-L835-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
SQUARE NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

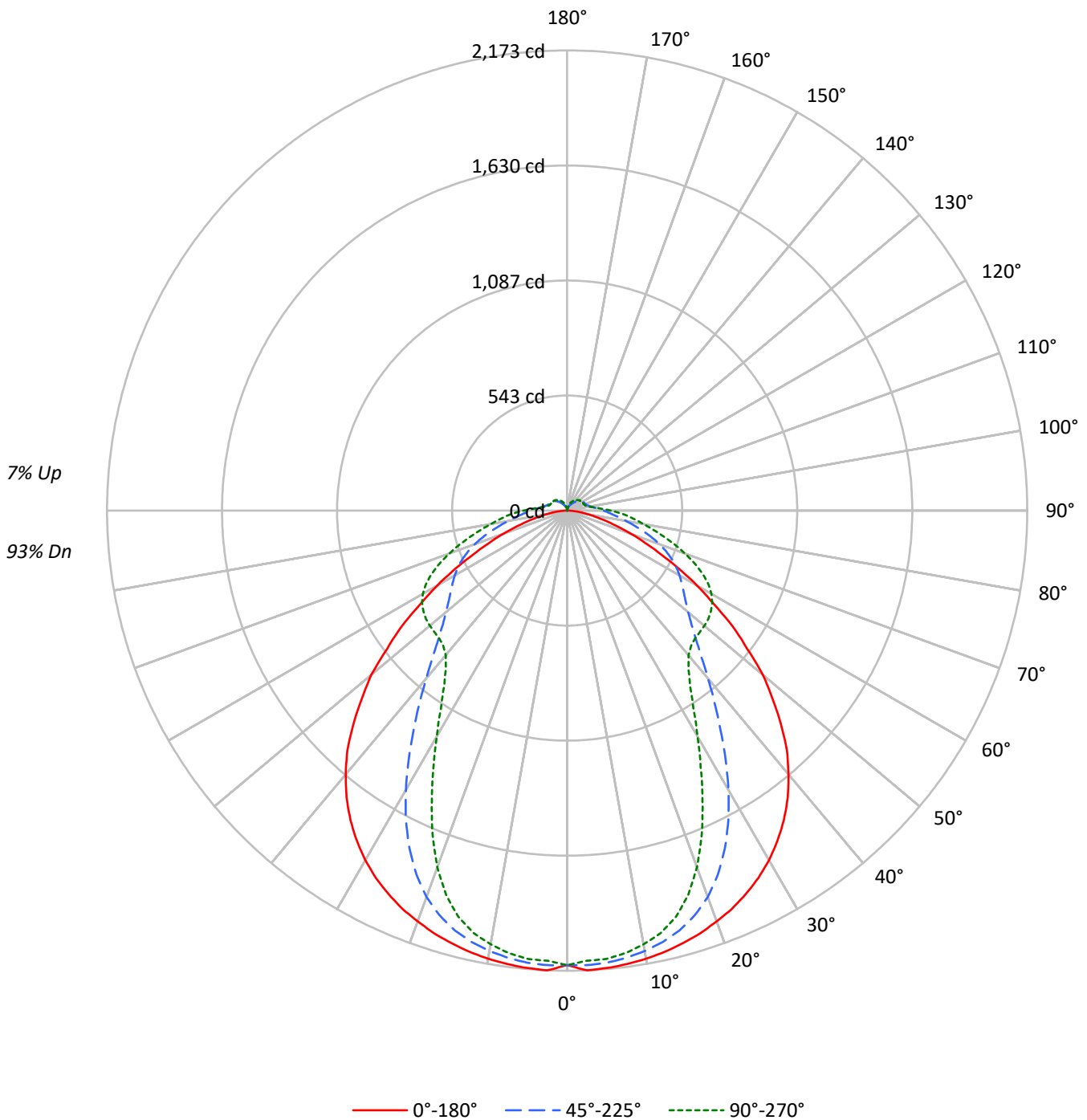
Lumens per Lamp: N/A  
Luminaire Lumens: 5397.0 lumens  
Efficiency: N/A  
Efficacy: 131.6 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 41  
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	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°	17343	17343	17343
5°	17542	16960	16694
10°	17537	16491	16007
15°	17542	15938	15094
20°	17550	15117	13556
25°	17557	13852	11479
30°	17474	12188	9441
35°	17224	10370	7913
40°	16721	8782	7153
45°	15834	7633	7099
50°	14628	6978	7348
55°	12880	6707	7604
60°	10867	6611	7710
65°	8742	6464	7470
70°	7022	6131	6888
75°	5293	5549	6113
80°	3910	4983	5438
85°	2610	4700	5002



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	203.0	3.8
10°-20°	573.9	10.6
20°-30°	802.2	14.9
30°-40°	832.1	15.4
40°-50°	768.7	14.2
50°-60°	686.3	12.7
60°-70°	556.2	10.3
70°-80°	370.0	6.9
80°-90°	211.9	3.9
90°-100°	117.2	2.2
100°-110°	79.4	1.5
110°-120°	66.1	1.2
120°-130°	53.7	1.0
130°-140°	38.8	0.7
140°-150°	23.4	0.4
150°-160°	11.2	0.2
160°-170°	2.9	0.1
170°-180°	0.0	0.0
0°-30°	1579.1	29.3
0°-40°	2411.2	44.7
0°-60°	3866.3	71.6
0°-90°	5004.4	92.7
90°-120°	262.7	4.9
90°-150°	378.5	7.0
90°-180°	393.0	7.3
0°-180°	5397.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2146	2146	2146	2146	2146	
5°	2168	2132	2143	2128	2126	206
15°	2114	2070	2052	2005	1986	597
25°	1998	1909	1762	1577	1513	921
35°	1784	1588	1263	1060	1013	1113
45°	1429	1132	860	829	854	1099
55°	955	722	672	781	829	849
65°	488	436	546	670	705	493
75°	189	237	368	451	470	208
85°	38	110	217	278	285	44
90°	2	77	172	207	205	3
95°	2	65	136	146	141	1
105°	1	57	98	95	90	1
115°	1	51	87	86	83	1
125°	1	44	76	80	78	1
135°	2	33	61	71	71	1
145°	2	20	42	55	59	1
155°	2	13	26	34	42	1
165°	2	8	13	17	22	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°	2146.1	2146.1	2146.1	2146.1	2146.1
2.5°	2173.1	2137.7	2148.9	2139.5	2127.4
5°	2168.4	2132.1	2143.3	2128.3	2125.5
7.5°	2160.1	2123.7	2130.2	2112.5	2107.8
10°	2148.9	2110.6	2111.6	2086.4	2079.8
12.5°	2133.9	2092.0	2086.4	2051.9	2042.5
15°	2114.4	2069.6	2051.9	2005.2	1985.6
17.5°	2092.9	2040.7	2004.3	1932.5	1901.7
20°	2064.0	2005.2	1941.8	1832.7	1791.7
22.5°	2035.1	1962.3	1860.7	1715.2	1660.1
25°	1997.8	1909.2	1761.8	1577.1	1512.8
27.5°	1955.8	1846.7	1648.0	1435.4	1366.4
30°	1906.4	1771.1	1523.0	1296.4	1231.1
32.5°	1848.5	1686.3	1391.5	1171.4	1110.8
35°	1784.2	1588.3	1262.8	1060.4	1012.9
37.5°	1710.5	1481.1	1143.4	970.9	940.1
40°	1626.6	1364.5	1033.4	901.9	891.6
42.5°	1536.1	1250.7	939.2	857.1	866.4
45°	1428.8	1132.3	859.9	829.1	854.3
47.5°	1316.0	1016.6	795.6	813.3	849.7
50°	1206.9	909.3	745.2	803.0	845.9
52.5°	1071.6	813.3	705.1	793.7	840.3
55°	955.0	721.9	671.5	780.6	829.1
57.5°	820.7	639.8	641.7	763.9	812.4
60°	708.8	565.2	612.8	740.5	787.2
62.5°	595.0	498.0	581.1	709.8	751.7
65°	487.8	436.5	546.5	669.7	705.1
67.5°	398.2	380.5	507.4	621.2	651.0
70°	322.7	329.2	464.5	567.1	592.2
72.5°	248.1	281.7	417.8	509.2	530.7
75°	189.3	236.9	368.4	451.4	470.1
77.5°	139.9	197.7	323.6	399.2	415.0
80°	98.9	163.2	281.7	353.5	365.6
82.5°	66.2	134.3	247.2	312.4	323.6
85°	38.2	110.1	217.3	277.9	285.4
87.5°	15.9	91.4	193.1	242.5	246.2
90°	1.9	77.4	171.6	207.1	205.2
92.5°	1.9	69.9	153.0	173.5	168.8
95°	1.9	65.3	136.2	145.5	140.8
97.5°	1.9	62.5	121.2	125.0	120.3
100°	0.9	60.6	111.0	111.0	106.3
102.5°	0.9	58.8	103.5	100.7	97.0
105°	0.9	56.9	97.9	95.1	90.5
107.5°	0.9	56.0	94.2	91.4	86.7
110°	0.9	54.1	91.4	88.6	84.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.9	53.2	89.5	87.7	83.0
115°	0.9	51.3	86.7	85.8	83.0
117.5°	0.9	49.4	84.9	84.9	82.1
120°	0.9	47.6	82.1	83.9	81.1
122.5°	0.9	45.7	79.3	82.1	79.3
125°	0.9	43.8	76.5	80.2	78.3
127.5°	1.9	41.0	72.7	78.3	76.5
130°	0.9	38.2	69.0	76.5	75.5
132.5°	1.9	35.4	65.3	73.7	73.7
135°	1.9	32.6	60.6	70.9	70.9
137.5°	1.9	28.9	56.0	67.2	68.1
140°	1.9	26.1	51.3	63.4	65.3
142.5°	1.9	23.3	46.6	59.7	62.5
145°	1.9	20.5	42.0	55.0	58.8
147.5°	1.9	18.7	37.3	49.4	55.0
150°	1.9	15.9	33.6	44.8	50.4
152.5°	1.9	14.0	29.8	40.1	46.6
155°	1.9	13.1	26.1	34.5	42.0
157.5°	1.9	11.2	22.4	29.8	37.3
160°	1.9	9.3	18.7	26.1	31.7
162.5°	1.9	8.4	15.9	21.5	28.0
165°	1.9	7.5	13.1	16.8	22.4
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)