

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-L940-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-L940-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
CLEAR SQUARE LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

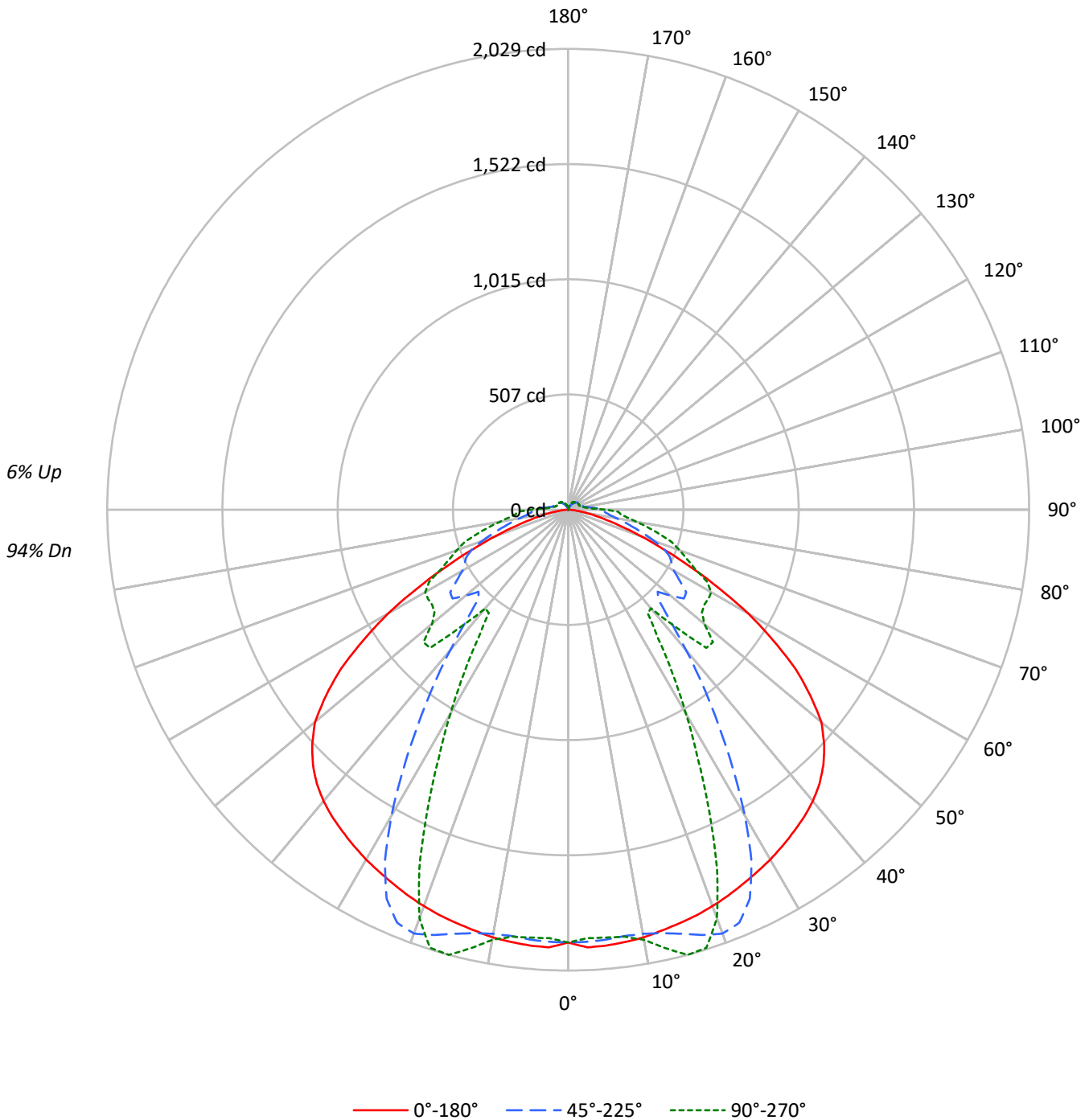
Lumens per Lamp: N/A  
Luminaire Lumens: 4894.0 lumens  
Efficiency: N/A  
Efficacy: 125.5 lumens/watt  
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

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	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°	15396	15396	15396
5°	15583	15035	14851
10°	15602	14806	14799
15°	15646	15015	15425
20°	15791	15462	14478
25°	15988	14860	11149
30°	16303	12446	7930
35°	16707	9426	5370
40°	17217	6852	4546
45°	17608	4971	7148
50°	17633	5504	6784
55°	16482	6334	6699
60°	14043	5796	7120
65°	10564	5845	6513
70°	7413	5321	6062
75°	4857	4458	5440
80°	3099	3819	4529
85°	1674	3630	4064



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	181.2	3.7
10°-20°	547.4	11.2
20°-30°	795.2	16.2
30°-40°	759.7	15.5
40°-50°	694.9	14.2
50°-60°	641.7	13.1
60°-70°	509.7	10.4
70°-80°	314.6	6.4
80°-90°	171.3	3.5
90°-100°	86.6	1.8
100°-110°	54.4	1.1
110°-120°	46.1	0.9
120°-130°	37.6	0.8
130°-140°	27.0	0.6
140°-150°	16.6	0.3
150°-160°	7.9	0.2
160°-170°	2.1	0.0
170°-180°	0.0	0.0
0°-30°	1523.8	31.1
0°-40°	2283.5	46.7
0°-60°	3620.1	74.0
0°-90°	4615.7	94.3
90°-120°	187.1	3.8
90°-150°	268.3	5.5
90°-180°	278.0	5.7
0°-180°	4894.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1905	1905	1905	1905	1905	
5°	1926	1897	1900	1890	1891	183
15°	1886	1860	1933	2005	2029	534
25°	1819	1855	1890	1600	1469	841
35°	1731	1703	1148	790	687	1085
45°	1589	1108	560	714	860	1221
55°	1222	568	634	682	730	1076
65°	590	369	494	600	615	596
75°	174	196	296	392	418	197
85°	24	84	168	229	232	31
90°	1	62	150	178	164	1
95°	0	58	104	92	87	0
105°	0	52	64	58	57	0
115°	0	43	62	55	52	0
125°	1	35	55	53	51	1
135°	1	24	44	48	46	1
145°	1	15	30	39	41	1
155°	2	9	19	24	30	1
165°	2	5	9	12	16	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-55HL-SLC-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1905.2	1905.2	1905.2	1905.2	1905.2
2.5°	1928.8	1901.0	1904.3	1898.4	1888.3
5°	1926.3	1896.8	1900.1	1890.0	1890.9
7.5°	1919.5	1889.2	1893.4	1891.7	1895.9
10°	1911.9	1879.9	1895.9	1910.2	1922.9
12.5°	1898.4	1869.8	1908.6	1950.7	1976.9
15°	1885.8	1860.5	1933.0	2004.7	2029.2
17.5°	1873.1	1857.1	1963.4	2025.8	2022.4
20°	1857.1	1855.4	1986.2	1965.1	1913.6
22.5°	1839.4	1856.3	1968.4	1814.1	1712.9
25°	1819.2	1854.6	1890.0	1599.9	1469.2
27.5°	1798.9	1847.0	1747.5	1365.4	1236.4
30°	1778.7	1826.8	1555.2	1151.2	1034.0
32.5°	1755.1	1782.9	1346.0	961.4	853.5
35°	1730.6	1702.8	1147.8	790.2	687.4
37.5°	1705.3	1587.2	969.9	640.1	574.3
40°	1674.9	1442.2	806.3	549.0	566.7
42.5°	1637.0	1278.6	662.1	576.0	699.2
45°	1588.9	1108.2	560.0	714.3	860.2
47.5°	1528.2	944.6	534.7	818.1	863.6
50°	1454.8	794.5	587.8	784.3	781.0
52.5°	1343.5	669.6	641.8	715.2	742.2
55°	1222.1	568.4	634.2	682.3	730.4
57.5°	1068.6	500.1	581.9	675.5	731.2
60°	915.9	454.6	537.2	674.7	727.0
62.5°	747.2	413.3	514.5	658.7	689.9
65°	589.5	368.6	494.2	600.5	614.8
67.5°	452.0	323.0	458.8	535.5	564.2
70°	340.7	278.3	403.1	485.8	521.2
72.5°	245.4	236.1	345.8	441.9	479.0
75°	173.7	196.5	296.0	392.2	418.3
77.5°	119.8	160.2	253.9	337.4	358.4
80°	78.4	128.2	215.9	290.1	304.5
82.5°	47.2	102.9	187.2	253.9	261.4
85°	24.5	83.5	167.8	228.6	231.9
87.5°	7.6	70.0	156.9	216.7	221.0
90°	0.8	62.4	150.1	178.0	164.5
92.5°	0.0	59.0	129.9	121.4	108.8
95°	0.0	58.2	103.7	91.9	86.9
97.5°	0.0	56.5	85.2	76.7	74.2
100°	0.0	54.8	73.4	67.5	66.6
102.5°	0.0	54.0	66.6	61.6	60.7
105°	0.0	52.3	64.1	58.2	57.3
107.5°	0.0	49.8	62.4	56.5	54.8
110°	0.0	47.2	62.4	55.7	53.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	44.7	62.4	54.8	52.3
115°	0.0	43.0	61.6	54.8	52.3
117.5°	0.8	41.3	60.7	54.8	52.3
120°	0.0	39.6	59.0	54.8	51.4
122.5°	0.8	37.1	57.3	54.0	51.4
125°	0.8	34.6	54.8	53.1	50.6
127.5°	0.8	32.0	52.3	51.4	48.9
130°	0.8	29.5	49.8	50.6	48.1
132.5°	0.8	27.0	46.4	48.9	47.2
135°	0.8	24.5	43.9	48.1	46.4
137.5°	0.8	21.9	40.5	45.5	45.5
140°	0.8	19.4	37.1	43.9	44.7
142.5°	0.8	17.7	33.7	42.2	43.0
145°	0.8	15.2	30.4	38.8	41.3
147.5°	0.8	13.5	27.0	35.4	38.8
150°	0.8	11.8	23.6	32.0	35.4
152.5°	0.8	10.1	21.1	27.8	32.9
155°	1.7	9.3	18.6	24.5	29.5
157.5°	1.7	7.6	15.2	21.1	25.3
160°	1.7	6.7	13.5	17.7	22.8
162.5°	1.7	5.9	11.0	15.2	19.4
165°	1.7	5.1	9.3	11.8	16.0
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)