

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-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-LD5-52HL-SLC-UNV-L940-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
CLEAR SQUARE LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

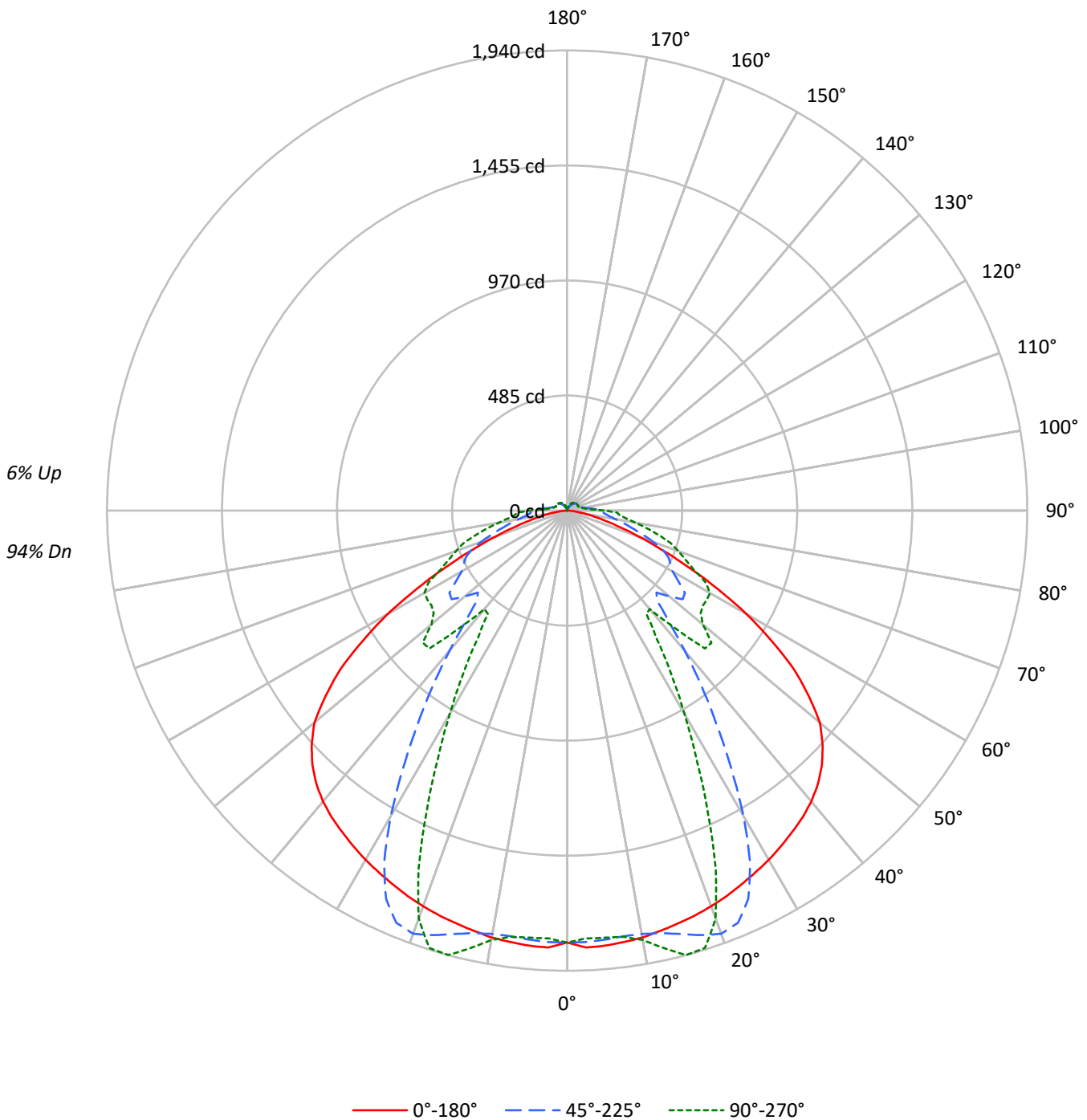
Lumens per Lamp: N/A  
Luminaire Lumens: 4678.0 lumens  
Efficiency: N/A  
Efficacy: 126.4 lumens/watt  
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 37  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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



TEST NUMBER: P#  
CATALOG NUMBER: 4SNLED-LD5-52HL-SLC-UNV-L940-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-52HL-SLC-UNV-L940-CD1-U

**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°	14716	14716	14716
5°	14896	14372	14195
10°	14914	14153	14146
15°	14955	14352	14744
20°	15094	14780	13840
25°	15282	14204	10656
30°	15584	11896	7579
35°	15969	9010	5132
40°	16457	6550	4346
45°	16831	4751	6833
50°	16855	5261	6484
55°	15754	6054	6403
60°	13423	5540	6806
65°	10098	5588	6226
70°	7087	5086	5795
75°	4644	4262	5200
80°	2965	3651	4328
85°	1599	3470	3885



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-52HL-SLC-UNV-L940-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	173.2	3.7
10°-20°	523.2	11.2
20°-30°	760.1	16.2
30°-40°	726.2	15.5
40°-50°	664.3	14.2
50°-60°	613.3	13.1
60°-70°	487.2	10.4
70°-80°	300.7	6.4
80°-90°	163.8	3.5
90°-100°	82.8	1.8
100°-110°	52.0	1.1
110°-120°	44.0	0.9
120°-130°	36.0	0.8
130°-140°	25.8	0.6
140°-150°	15.9	0.3
150°-160°	7.6	0.2
160°-170°	2.0	0.0
170°-180°	0.0	0.0
0°-30°	1456.5	31.1
0°-40°	2182.7	46.7
0°-60°	3460.3	74.0
0°-90°	4411.9	94.3
90°-120°	178.8	3.8
90°-150°	256.5	5.5
90°-180°	266.0	5.7
0°-180°	4678.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1821	1821	1821	1821	1821	
5°	1841	1813	1816	1807	1807	175
15°	1803	1778	1848	1916	1940	510
25°	1739	1773	1807	1529	1404	804
35°	1654	1628	1097	755	657	1037
45°	1519	1059	535	683	822	1167
55°	1168	543	606	652	698	1029
65°	564	352	472	574	588	570
75°	166	188	283	375	400	188
85°	23	80	160	218	222	30
90°	1	60	144	170	157	1
95°	0	56	99	88	83	0
105°	0	50	61	56	55	0
115°	0	41	59	52	50	0
125°	1	33	52	51	48	1
135°	1	23	42	46	44	1
145°	1	14	29	37	40	1
155°	2	9	18	23	28	1
165°	2	5	9	11	15	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-52HL-SLC-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1821.1	1821.1	1821.1	1821.1	1821.1
2.5°	1843.7	1817.1	1820.3	1814.7	1805.0
5°	1841.3	1813.0	1816.3	1806.6	1807.4
7.5°	1834.8	1805.8	1809.8	1808.2	1812.2
10°	1827.5	1796.9	1812.2	1825.9	1838.0
12.5°	1814.7	1787.2	1824.3	1864.6	1889.6
15°	1802.6	1778.4	1847.7	1916.2	1939.6
17.5°	1790.5	1775.1	1876.7	1936.4	1933.2
20°	1775.1	1773.5	1898.5	1878.3	1829.2
22.5°	1758.2	1774.3	1881.6	1734.0	1637.3
25°	1738.9	1772.7	1806.6	1529.3	1404.3
27.5°	1719.5	1765.5	1670.3	1305.2	1181.8
30°	1700.2	1746.1	1486.5	1100.4	988.3
32.5°	1677.6	1704.2	1286.6	919.0	815.8
35°	1654.2	1627.6	1097.2	755.4	657.0
37.5°	1630.0	1517.2	927.1	611.9	549.0
40°	1601.0	1378.5	770.7	524.8	541.7
42.5°	1564.7	1222.1	632.8	550.6	668.3
45°	1518.8	1059.3	535.3	682.8	822.3
47.5°	1460.8	902.9	511.1	782.0	825.5
50°	1390.6	759.4	561.9	749.7	746.5
52.5°	1284.2	640.1	613.5	683.6	709.4
55°	1168.1	543.3	606.2	652.2	698.1
57.5°	1021.4	478.0	556.2	645.7	698.9
60°	875.5	434.5	513.5	644.9	694.9
62.5°	714.3	395.0	491.8	629.6	659.4
65°	563.5	352.3	472.4	574.0	587.7
67.5°	432.1	308.8	438.5	511.9	539.3
70°	325.7	266.0	385.3	464.3	498.2
72.5°	234.6	225.7	330.5	422.4	457.9
75°	166.1	187.8	283.0	374.9	399.9
77.5°	114.5	153.2	242.7	322.5	342.6
80°	75.0	122.5	206.4	277.3	291.0
82.5°	45.1	98.4	179.0	242.7	249.9
85°	23.4	79.8	160.4	218.5	221.7
87.5°	7.3	66.9	149.9	207.2	211.2
90°	0.8	59.7	143.5	170.1	157.2
92.5°	0.0	56.4	124.1	116.1	104.0
95°	0.0	55.6	99.2	87.9	83.0
97.5°	0.0	54.0	81.4	73.4	70.9
100°	0.0	52.4	70.1	64.5	63.7
102.5°	0.0	51.6	63.7	58.8	58.0
105°	0.0	50.0	61.3	55.6	54.8
107.5°	0.0	47.6	59.7	54.0	52.4
110°	0.0	45.1	59.7	53.2	50.8



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-52HL-SLC-UNV-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	42.7	59.7	52.4	50.0
115°	0.0	41.1	58.8	52.4	50.0
117.5°	0.8	39.5	58.0	52.4	50.0
120°	0.0	37.9	56.4	52.4	49.2
122.5°	0.8	35.5	54.8	51.6	49.2
125°	0.8	33.1	52.4	50.8	48.4
127.5°	0.8	30.6	50.0	49.2	46.8
130°	0.8	28.2	47.6	48.4	46.0
132.5°	0.8	25.8	44.3	46.8	45.1
135°	0.8	23.4	41.9	46.0	44.3
137.5°	0.8	21.0	38.7	43.5	43.5
140°	0.8	18.5	35.5	41.9	42.7
142.5°	0.8	16.9	32.2	40.3	41.1
145°	0.8	14.5	29.0	37.1	39.5
147.5°	0.8	12.9	25.8	33.9	37.1
150°	0.8	11.3	22.6	30.6	33.9
152.5°	0.8	9.7	20.2	26.6	31.4
155°	1.6	8.9	17.7	23.4	28.2
157.5°	1.6	7.3	14.5	20.2	24.2
160°	1.6	6.4	12.9	16.9	21.8
162.5°	1.6	5.6	10.5	14.5	18.5
165°	1.6	4.8	8.9	11.3	15.3
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)