

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

Summary

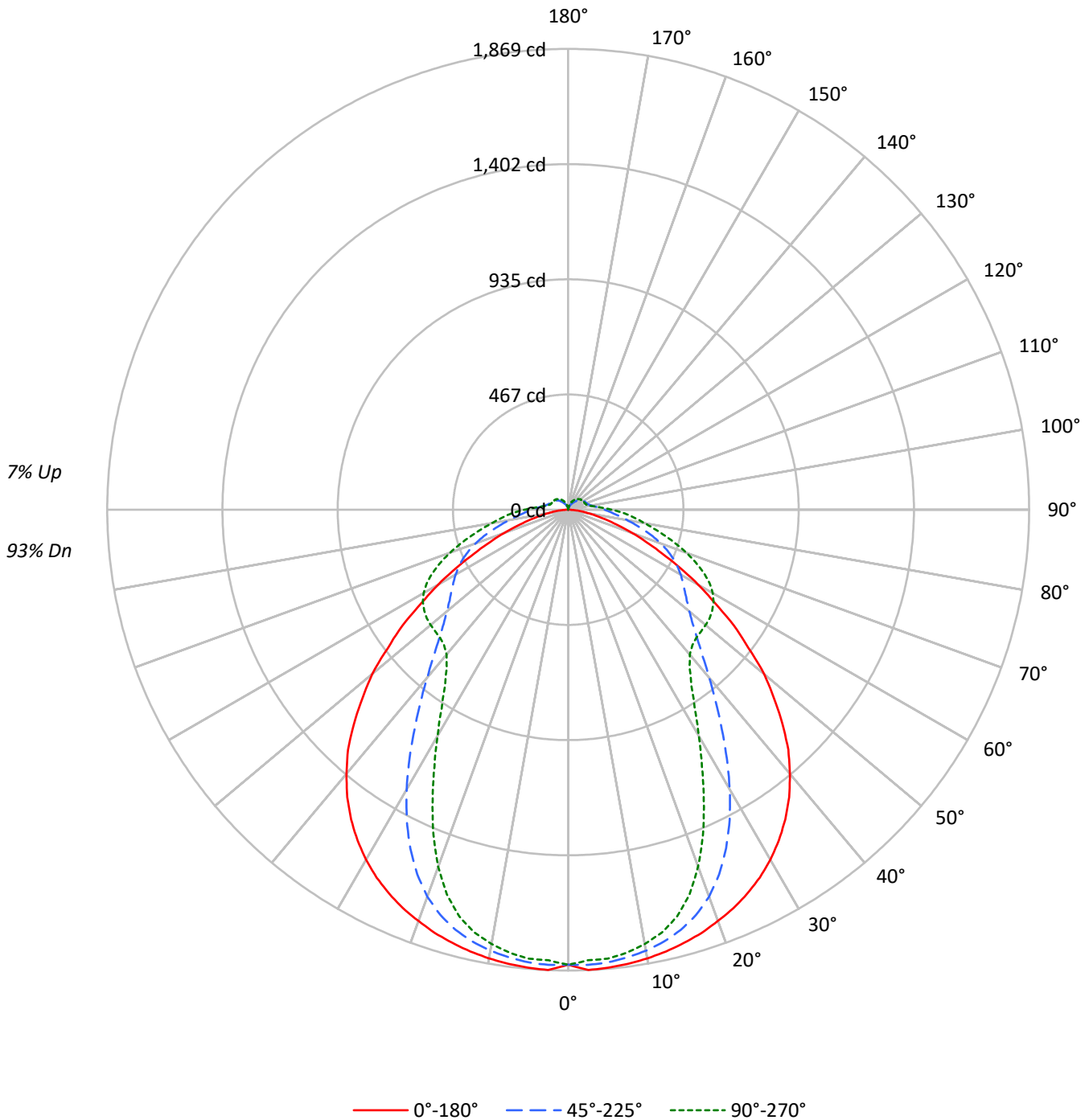
Lumens per Lamp: N/A
Luminaire Lumens: 4641.0 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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	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°	14913	14913	14913
5°	15085	14583	14355
10°	15080	14181	13765
15°	15085	13705	12980
20°	15092	12999	11657
25°	15098	11911	9871
30°	15025	10481	8119
35°	14812	8917	6804
40°	14378	7552	6151
45°	13616	6564	6105
50°	12579	6000	6318
55°	11077	5768	6540
60°	9345	5685	6630
65°	7518	5559	6423
70°	6038	5272	5924
75°	4552	4771	5256
80°	3360	4285	4676
85°	2248	4043	4301



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.6	3.8
10°-20°	493.5	10.6
20°-30°	689.8	14.9
30°-40°	715.5	15.4
40°-50°	661.1	14.2
50°-60°	590.2	12.7
60°-70°	478.3	10.3
70°-80°	318.1	6.9
80°-90°	182.2	3.9
90°-100°	100.8	2.2
100°-110°	68.2	1.5
110°-120°	56.8	1.2
120°-130°	46.2	1.0
130°-140°	33.3	0.7
140°-150°	20.1	0.4
150°-160°	9.7	0.2
160°-170°	2.5	0.1
170°-180°	0.0	0.0
0°-30°	1357.9	29.3
0°-40°	2073.5	44.7
0°-60°	3324.7	71.6
0°-90°	4303.3	92.7
90°-120°	225.9	4.9
90°-150°	325.5	7.0
90°-180°	338.0	7.3
0°-180°	4641.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1845	1845	1845	1845	1845	
5°	1865	1833	1843	1830	1828	177
15°	1818	1780	1764	1724	1708	514
25°	1718	1642	1515	1356	1301	792
35°	1534	1366	1086	912	871	957
45°	1229	974	740	713	735	945
55°	821	621	578	671	713	730
65°	420	375	470	576	606	424
75°	163	204	317	388	404	178
85°	33	95	187	239	245	38
90°	2	67	148	178	176	3
95°	2	56	117	125	121	1
105°	1	49	84	82	78	1
115°	1	44	75	74	71	1
125°	1	38	66	69	67	1
135°	2	28	52	61	61	1
145°	2	18	36	47	50	1
155°	2	11	22	30	36	1
165°	2	6	11	14	19	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°	1845.4	1845.4	1845.4	1845.4	1845.4
2.5°	1868.7	1838.2	1847.9	1839.8	1829.4
5°	1864.7	1833.4	1843.0	1830.2	1827.8
7.5°	1857.5	1826.2	1831.8	1816.6	1812.6
10°	1847.9	1815.0	1815.8	1794.1	1788.5
12.5°	1835.0	1798.9	1794.1	1764.4	1756.4
15°	1818.2	1779.7	1764.4	1724.3	1707.5
17.5°	1799.7	1754.8	1723.5	1661.8	1635.3
20°	1774.9	1724.3	1669.8	1576.0	1540.7
22.5°	1750.0	1687.4	1600.0	1474.9	1427.6
25°	1717.9	1641.7	1515.0	1356.2	1300.9
27.5°	1681.8	1588.0	1417.2	1234.3	1175.0
30°	1639.3	1523.0	1309.7	1114.8	1058.7
32.5°	1589.6	1450.1	1196.6	1007.3	955.2
35°	1534.3	1365.8	1085.9	911.9	871.0
37.5°	1470.9	1273.6	983.3	834.9	808.4
40°	1398.7	1173.4	888.6	775.6	766.7
42.5°	1320.9	1075.5	807.6	737.1	745.1
45°	1228.7	973.7	739.5	713.0	734.7
47.5°	1131.6	874.2	684.1	699.4	730.6
50°	1037.8	782.0	640.8	690.5	727.4
52.5°	921.5	699.4	606.3	682.5	722.6
55°	821.3	620.8	577.5	671.3	713.0
57.5°	705.8	550.2	551.8	656.9	698.6
60°	609.5	486.0	526.9	636.8	676.9
62.5°	511.7	428.3	499.7	610.3	646.4
65°	419.5	375.3	470.0	575.9	606.3
67.5°	342.5	327.2	436.3	534.1	559.8
70°	277.5	283.1	399.4	487.6	509.3
72.5°	213.3	242.2	359.3	437.9	456.3
75°	162.8	203.7	316.8	388.2	404.2
77.5°	120.3	170.0	278.3	343.3	356.9
80°	85.0	140.4	242.2	304.0	314.4
82.5°	56.9	115.5	212.5	268.7	278.3
85°	32.9	94.6	186.9	239.0	245.4
87.5°	13.6	78.6	166.0	208.5	211.7
90°	1.6	66.6	147.6	178.0	176.4
92.5°	1.6	60.2	131.5	149.2	145.2
95°	1.6	56.1	117.1	125.1	121.1
97.5°	1.6	53.7	104.3	107.5	103.5
100°	0.8	52.1	95.4	95.4	91.4
102.5°	0.8	50.5	89.0	86.6	83.4
105°	0.8	48.9	84.2	81.8	77.8
107.5°	0.8	48.1	81.0	78.6	74.6
110°	0.8	46.5	78.6	76.2	73.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.8	45.7	77.0	75.4	71.4
115°	0.8	44.1	74.6	73.8	71.4
117.5°	0.8	42.5	73.0	73.0	70.6
120°	0.8	40.9	70.6	72.2	69.8
122.5°	0.8	39.3	68.2	70.6	68.2
125°	0.8	37.7	65.8	69.0	67.4
127.5°	1.6	35.3	62.6	67.4	65.8
130°	0.8	32.9	59.3	65.8	65.0
132.5°	1.6	30.5	56.1	63.4	63.4
135°	1.6	28.1	52.1	61.0	61.0
137.5°	1.6	24.9	48.1	57.7	58.5
140°	1.6	22.5	44.1	54.5	56.1
142.5°	1.6	20.1	40.1	51.3	53.7
145°	1.6	17.6	36.1	47.3	50.5
147.5°	1.6	16.0	32.1	42.5	47.3
150°	1.6	13.6	28.9	38.5	43.3
152.5°	1.6	12.0	25.7	34.5	40.1
155°	1.6	11.2	22.5	29.7	36.1
157.5°	1.6	9.6	19.2	25.7	32.1
160°	1.6	8.0	16.0	22.5	27.3
162.5°	1.6	7.2	13.6	18.4	24.1
165°	1.6	6.4	11.2	14.4	19.2
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)