

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-L850-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-L850-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

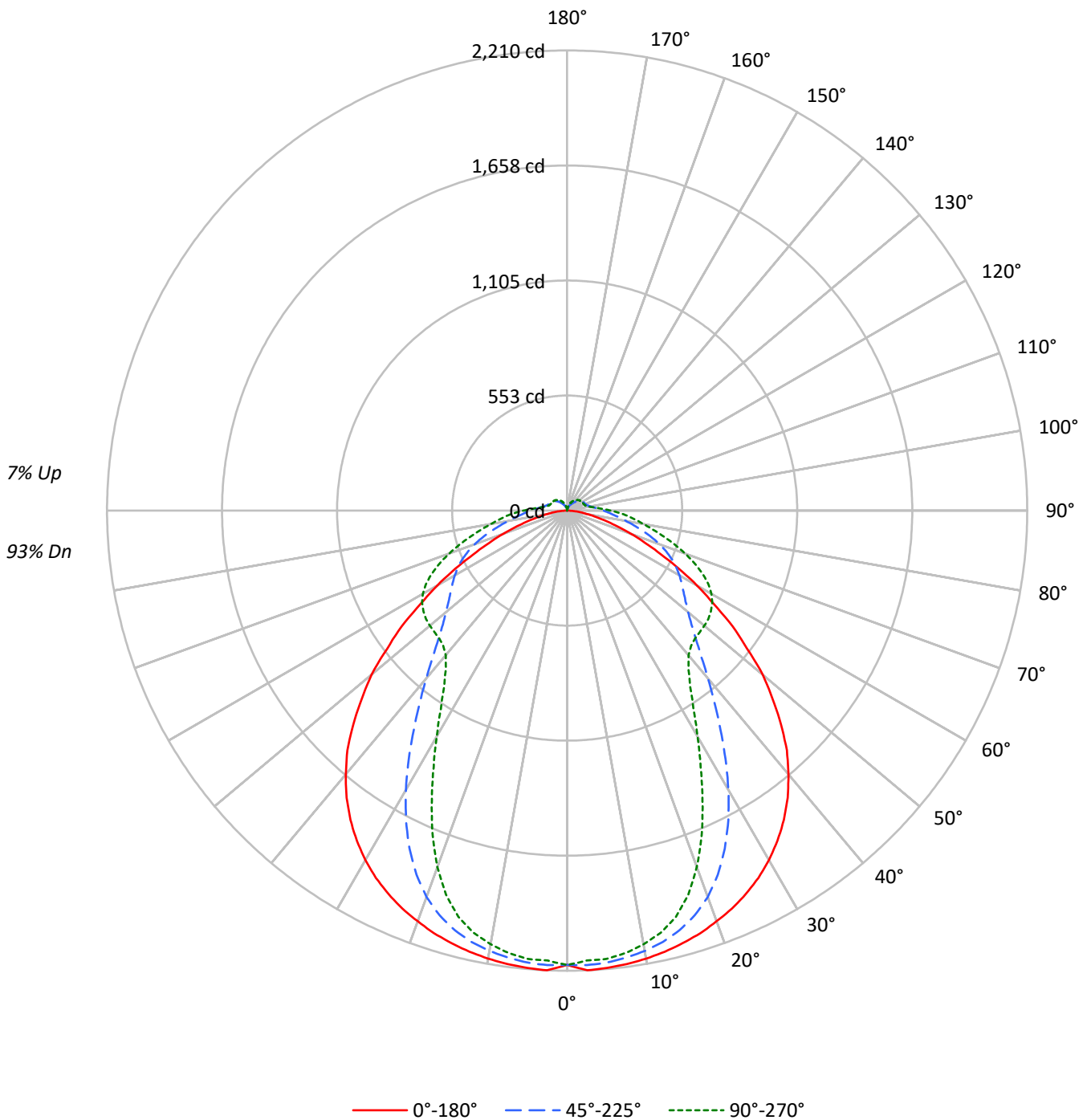
Lumens per Lamp: N/A
Luminaire Lumens: 5488.0 lumens
Efficiency: N/A
Efficacy: 133.9 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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°	17634	17634	17634
5°	17838	17245	16976
10°	17832	16769	16277
15°	17838	16207	15348
20°	17846	15372	13784
25°	17854	14085	11673
30°	17768	12394	9601
35°	17515	10545	8046
40°	17002	8930	7274
45°	16101	7761	7218
50°	14874	7096	7472
55°	13098	6820	7733
60°	11051	6723	7839
65°	8889	6574	7596
70°	7139	6234	7004
75°	5383	5642	6216
80°	3973	5066	5530
85°	2658	4780	5086



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.5	3.8
10°-20°	583.6	10.6
20°-30°	815.8	14.9
30°-40°	846.1	15.4
40°-50°	781.7	14.2
50°-60°	697.9	12.7
60°-70°	565.6	10.3
70°-80°	376.2	6.9
80°-90°	215.4	3.9
90°-100°	119.2	2.2
100°-110°	80.7	1.5
110°-120°	67.2	1.2
120°-130°	54.6	1.0
130°-140°	39.4	0.7
140°-150°	23.8	0.4
150°-160°	11.4	0.2
160°-170°	3.0	0.1
170°-180°	0.0	0.0
0°-30°	1605.8	29.3
0°-40°	2451.9	44.7
0°-60°	3931.5	71.6
0°-90°	5088.7	92.7
90°-120°	267.1	4.9
90°-150°	384.9	7.0
90°-180°	399.0	7.3
0°-180°	5488.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2182	2182	2182	2182	2182	
5°	2205	2168	2179	2164	2161	210
15°	2150	2104	2086	2039	2019	608
25°	2032	1941	1792	1604	1538	936
35°	1814	1615	1284	1078	1030	1132
45°	1453	1151	874	843	869	1117
55°	971	734	683	794	843	864
65°	496	444	556	681	717	501
75°	192	241	375	459	478	211
85°	39	112	221	283	290	45
90°	2	79	174	210	209	3
95°	2	66	138	148	143	1
105°	1	58	100	97	92	1
115°	1	52	88	87	84	1
125°	1	45	78	82	80	1
135°	2	33	62	72	72	1
145°	2	21	43	56	60	1
155°	2	13	27	35	43	1
165°	2	8	13	17	23	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-53SL-SLN-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2182.2	2182.2	2182.2	2182.2	2182.2
2.5°	2209.8	2173.7	2185.1	2175.6	2163.3
5°	2205.0	2168.0	2179.4	2164.2	2161.4
7.5°	2196.5	2159.5	2166.1	2148.1	2143.4
10°	2185.1	2146.2	2147.2	2121.6	2114.9
12.5°	2169.9	2127.2	2121.6	2086.5	2077.0
15°	2150.0	2104.5	2086.5	2039.0	2019.1
17.5°	2128.2	2075.1	2038.1	1965.1	1933.8
20°	2098.8	2039.0	1974.6	1863.6	1821.9
22.5°	2069.4	1995.4	1892.0	1744.1	1688.1
25°	2031.5	1941.4	1791.5	1603.7	1538.3
27.5°	1988.8	1877.8	1675.8	1459.6	1389.4
30°	1938.5	1801.0	1548.7	1318.3	1251.9
32.5°	1879.7	1714.7	1415.0	1191.2	1129.5
35°	1814.3	1615.1	1284.1	1078.3	1030.0
37.5°	1739.3	1506.0	1162.7	987.3	956.0
40°	1654.0	1387.5	1050.8	917.1	906.7
42.5°	1562.0	1271.8	955.0	871.6	881.1
45°	1452.9	1151.3	874.4	843.1	868.7
47.5°	1338.2	1033.7	809.0	827.0	864.0
50°	1227.2	924.7	757.8	816.6	860.2
52.5°	1089.7	827.0	717.0	807.1	854.5
55°	971.2	734.1	682.8	793.8	843.1
57.5°	834.6	650.6	652.5	776.7	826.0
60°	720.8	574.7	623.1	753.0	800.4
62.5°	605.1	506.4	590.8	721.7	764.4
65°	496.0	443.8	555.8	680.9	717.0
67.5°	405.0	386.9	515.9	631.6	662.0
70°	328.1	334.8	472.3	576.6	602.2
72.5°	252.3	286.4	424.9	517.8	539.6
75°	192.5	240.9	374.6	459.0	478.0
77.5°	142.3	201.1	329.1	405.9	422.0
80°	100.5	166.0	286.4	359.4	371.8
82.5°	67.3	136.6	251.3	317.7	329.1
85°	38.9	111.9	221.0	282.6	290.2
87.5°	16.1	92.9	196.3	246.6	250.4
90°	1.9	78.7	174.5	210.5	208.6
92.5°	1.9	71.1	155.5	176.4	171.7
95°	1.9	66.4	138.5	147.9	143.2
97.5°	1.9	63.5	123.3	127.1	122.3
100°	0.9	61.6	112.9	112.9	108.1
102.5°	0.9	59.7	105.3	102.4	98.6
105°	0.9	57.9	99.6	96.7	92.0
107.5°	0.9	56.9	95.8	92.9	88.2
110°	0.9	55.0	92.9	90.1	86.3



TEST NUMBER: P#

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.9	54.1	91.0	89.1	84.4
115°	0.9	52.2	88.2	87.3	84.4
117.5°	0.9	50.3	86.3	86.3	83.5
120°	0.9	48.4	83.5	85.4	82.5
122.5°	0.9	46.5	80.6	83.5	80.6
125°	0.9	44.6	77.8	81.6	79.7
127.5°	1.9	41.7	74.0	79.7	77.8
130°	0.9	38.9	70.2	77.8	76.8
132.5°	1.9	36.0	66.4	74.9	74.9
135°	1.9	33.2	61.6	72.1	72.1
137.5°	1.9	29.4	56.9	68.3	69.2
140°	1.9	26.6	52.2	64.5	66.4
142.5°	1.9	23.7	47.4	60.7	63.5
145°	1.9	20.9	42.7	56.0	59.7
147.5°	1.9	19.0	37.9	50.3	56.0
150°	1.9	16.1	34.1	45.5	51.2
152.5°	1.9	14.2	30.3	40.8	47.4
155°	1.9	13.3	26.6	35.1	42.7
157.5°	1.9	11.4	22.8	30.3	37.9
160°	1.9	9.5	19.0	26.6	32.2
162.5°	1.9	8.5	16.1	21.8	28.5
165°	1.9	7.6	13.3	17.1	22.8
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)