

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-LD5-41SL-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-LD5-41SL-SLN-UNV-L850-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

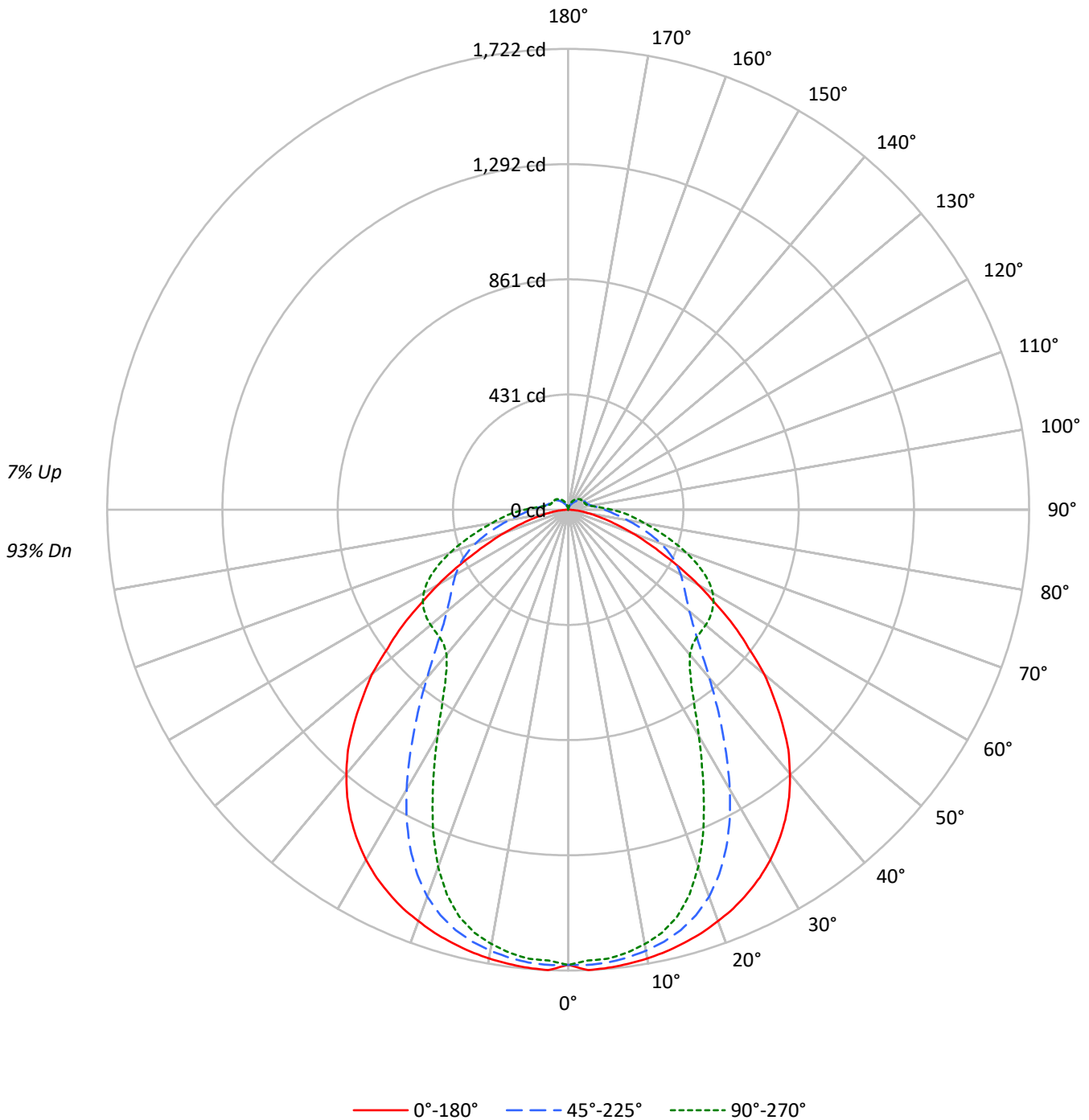
Lumens per Lamp: N/A
Luminaire Lumens: 4277.0 lumens
Efficiency: N/A
Efficacy: 138.0 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 31
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°	13743	13743	13743
5°	13901	13440	13229
10°	13897	13069	12685
15°	13902	12631	11962
20°	13908	11979	10742
25°	13914	10977	9097
30°	13848	9659	7482
35°	13650	8218	6271
40°	13250	6960	5668
45°	12548	6049	5625
50°	11592	5530	5823
55°	10208	5315	6027
60°	8612	5239	6110
65°	6928	5123	5920
70°	5564	4859	5459
75°	4194	4398	4844
80°	3095	3948	4309
85°	2070	3725	3964



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.9	3.8
10°-20°	454.8	10.6
20°-30°	635.7	14.9
30°-40°	659.4	15.4
40°-50°	609.2	14.2
50°-60°	543.9	12.7
60°-70°	440.8	10.3
70°-80°	293.2	6.9
80°-90°	167.9	3.9
90°-100°	92.9	2.2
100°-110°	62.9	1.5
110°-120°	52.4	1.2
120°-130°	42.6	1.0
130°-140°	30.7	0.7
140°-150°	18.5	0.4
150°-160°	8.9	0.2
160°-170°	2.3	0.1
170°-180°	0.0	0.0
0°-30°	1251.4	29.3
0°-40°	1910.9	44.7
0°-60°	3064.0	71.6
0°-90°	3965.8	92.7
90°-120°	208.1	4.9
90°-150°	300.0	7.0
90°-180°	311.0	7.3
0°-180°	4277.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1701	1701	1701	1701	1701	
5°	1718	1690	1698	1687	1684	163
15°	1676	1640	1626	1589	1574	473
25°	1583	1513	1396	1250	1199	730
35°	1414	1259	1001	840	803	882
45°	1132	897	682	657	677	871
55°	757	572	532	619	657	673
65°	387	346	433	531	559	391
75°	150	188	292	358	372	164
85°	30	87	172	220	226	35
90°	2	61	136	164	163	2
95°	2	52	108	115	112	1
105°	1	45	78	75	72	1
115°	1	41	69	68	66	1
125°	1	35	61	64	62	1
135°	2	26	48	56	56	1
145°	2	16	33	44	47	1
155°	2	10	21	27	33	1
165°	2	6	10	13	18	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-41SL-SLN-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1700.7	1700.7	1700.7	1700.7	1700.7
2.5°	1722.1	1694.1	1702.9	1695.5	1685.9
5°	1718.4	1689.6	1698.5	1686.7	1684.4
7.5°	1711.8	1683.0	1688.1	1674.1	1670.4
10°	1702.9	1672.6	1673.4	1653.4	1648.2
12.5°	1691.1	1657.8	1653.4	1626.1	1618.7
15°	1675.6	1640.1	1626.1	1589.1	1573.6
17.5°	1658.6	1617.2	1588.4	1531.4	1507.1
20°	1635.7	1589.1	1538.8	1452.4	1419.8
22.5°	1612.8	1555.1	1474.5	1359.2	1315.6
25°	1583.2	1513.0	1396.2	1249.8	1198.8
27.5°	1549.9	1463.5	1306.0	1137.5	1082.8
30°	1510.8	1403.6	1207.0	1027.4	975.6
32.5°	1464.9	1336.3	1102.8	928.3	880.3
35°	1413.9	1258.7	1000.8	840.4	802.7
37.5°	1355.5	1173.7	906.2	769.4	745.0
40°	1289.0	1081.3	818.9	714.7	706.6
42.5°	1217.3	991.2	744.3	679.2	686.6
45°	1132.3	897.3	681.5	657.1	677.0
47.5°	1042.9	805.6	630.5	644.5	673.3
50°	956.4	720.6	590.6	636.4	670.4
52.5°	849.2	644.5	558.8	629.0	665.9
55°	756.9	572.1	532.2	618.6	657.1
57.5°	650.4	507.0	508.5	605.3	643.8
60°	561.7	447.9	485.6	586.9	623.8
62.5°	471.6	394.7	460.5	562.5	595.7
65°	386.6	345.9	433.1	530.7	558.8
67.5°	315.6	301.6	402.1	492.3	515.9
70°	255.7	260.9	368.1	449.4	469.3
72.5°	196.6	223.2	331.1	403.6	420.6
75°	150.0	187.7	292.0	357.7	372.5
77.5°	110.9	156.7	256.5	316.3	328.9
80°	78.3	129.3	223.2	280.1	289.7
82.5°	52.5	106.4	195.9	247.6	256.5
85°	30.3	87.2	172.2	220.3	226.2
87.5°	12.6	72.4	153.0	192.2	195.1
90°	1.5	61.3	136.0	164.1	162.6
92.5°	1.5	55.4	121.2	137.5	133.8
95°	1.5	51.7	107.9	115.3	111.6
97.5°	1.5	49.5	96.1	99.0	95.3
100°	0.7	48.0	88.0	88.0	84.3
102.5°	0.7	46.6	82.0	79.8	76.9
105°	0.7	45.1	77.6	75.4	71.7
107.5°	0.7	44.3	74.7	72.4	68.7
110°	0.7	42.9	72.4	70.2	67.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.7	42.1	71.0	69.5	65.8
115°	0.7	40.7	68.7	68.0	65.8
117.5°	0.7	39.2	67.3	67.3	65.0
120°	0.7	37.7	65.0	66.5	64.3
122.5°	0.7	36.2	62.8	65.0	62.8
125°	0.7	34.7	60.6	63.6	62.1
127.5°	1.5	32.5	57.7	62.1	60.6
130°	0.7	30.3	54.7	60.6	59.9
132.5°	1.5	28.1	51.7	58.4	58.4
135°	1.5	25.9	48.0	56.2	56.2
137.5°	1.5	22.9	44.3	53.2	54.0
140°	1.5	20.7	40.7	50.3	51.7
142.5°	1.5	18.5	37.0	47.3	49.5
145°	1.5	16.3	33.3	43.6	46.6
147.5°	1.5	14.8	29.6	39.2	43.6
150°	1.5	12.6	26.6	35.5	39.9
152.5°	1.5	11.1	23.7	31.8	37.0
155°	1.5	10.3	20.7	27.3	33.3
157.5°	1.5	8.9	17.7	23.7	29.6
160°	1.5	7.4	14.8	20.7	25.1
162.5°	1.5	6.7	12.6	17.0	22.2
165°	1.5	5.9	10.3	13.3	17.7
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)