

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-L835-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-L835-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

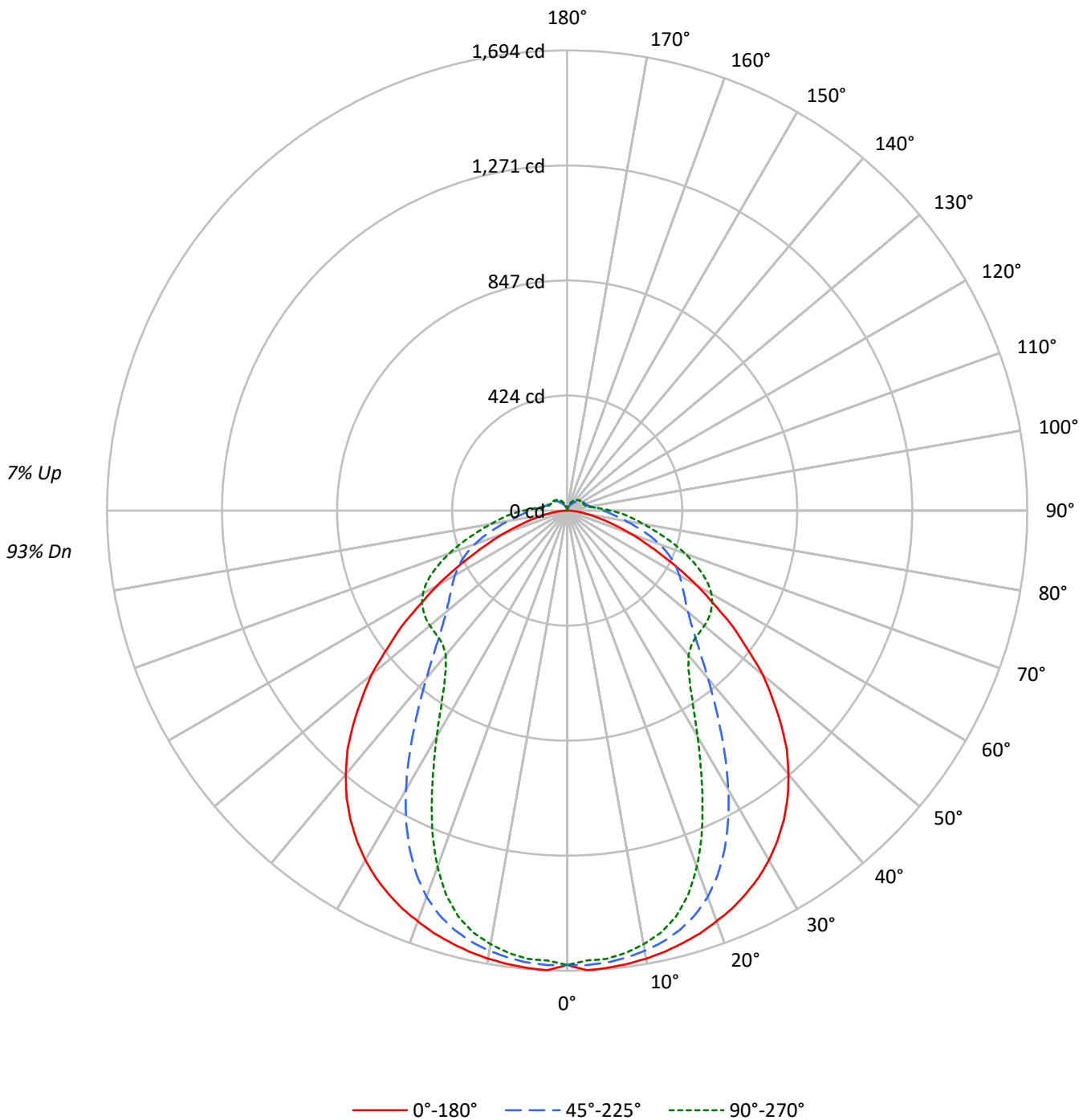
Lumens per Lamp: N/A
Luminaire Lumens: 4206.0 lumens
Efficiency: N/A
Efficacy: 135.7 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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	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°	13516	13516	13516
5°	13671	13217	13010
10°	13667	12852	12475
15°	13671	12421	11763
20°	13677	11781	10564
25°	13683	10795	8946
30°	13618	9498	7358
35°	13424	8082	6167
40°	13030	6844	5575
45°	12340	5949	5532
50°	11399	5438	5726
55°	10038	5227	5927
60°	8469	5152	6009
65°	6812	5038	5821
70°	5472	4778	5368
75°	4124	4324	4764
80°	3044	3883	4237
85°	2036	3664	3898



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.2	3.8
10°-20°	447.2	10.6
20°-30°	625.2	14.9
30°-40°	648.5	15.4
40°-50°	599.1	14.2
50°-60°	534.9	12.7
60°-70°	433.5	10.3
70°-80°	288.3	6.9
80°-90°	165.1	3.9
90°-100°	91.3	2.2
100°-110°	61.8	1.5
110°-120°	51.5	1.2
120°-130°	41.9	1.0
130°-140°	30.2	0.7
140°-150°	18.2	0.4
150°-160°	8.8	0.2
160°-170°	2.3	0.1
170°-180°	0.0	0.0
0°-30°	1230.7	29.3
0°-40°	1879.1	44.7
0°-60°	3013.1	71.6
0°-90°	3900.0	92.7
90°-120°	204.7	4.9
90°-150°	295.0	7.0
90°-180°	306.0	7.3
0°-180°	4206.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1672	1672	1672	1672	1672	
5°	1690	1662	1670	1659	1656	161
15°	1648	1613	1599	1563	1548	466
25°	1557	1488	1373	1229	1179	717
35°	1390	1238	984	826	789	868
45°	1114	882	670	646	666	856
55°	744	563	523	608	646	662
65°	380	340	426	522	550	384
75°	148	185	287	352	366	162
85°	30	86	169	217	222	34
90°	2	60	134	161	160	2
95°	2	51	106	113	110	1
105°	1	44	76	74	70	1
115°	1	40	68	67	65	1
125°	1	34	60	62	61	1
135°	2	25	47	55	55	1
145°	2	16	33	43	46	1
155°	2	10	20	27	33	1
165°	2	6	10	13	17	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-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1672.5	1672.5	1672.5	1672.5	1672.5
2.5°	1693.6	1665.9	1674.7	1667.4	1657.9
5°	1689.9	1661.6	1670.3	1658.7	1656.5
7.5°	1683.4	1655.0	1660.1	1646.3	1642.7
10°	1674.7	1644.9	1645.6	1626.0	1620.9
12.5°	1663.0	1630.3	1626.0	1599.1	1591.8
15°	1647.8	1612.9	1599.1	1562.7	1547.5
17.5°	1631.0	1590.3	1562.0	1506.0	1482.0
20°	1608.5	1562.7	1513.3	1428.3	1396.3
22.5°	1586.0	1529.3	1450.1	1336.7	1293.8
25°	1556.9	1487.9	1373.0	1229.1	1178.9
27.5°	1524.2	1439.2	1284.3	1118.6	1064.8
30°	1485.7	1380.3	1186.9	1010.3	959.4
32.5°	1440.6	1314.1	1084.5	912.9	865.7
35°	1390.5	1237.8	984.2	826.4	789.4
37.5°	1333.0	1154.2	891.1	756.6	732.7
40°	1267.6	1063.4	805.3	702.9	694.9
42.5°	1197.1	974.7	731.9	668.0	675.2
45°	1113.5	882.4	670.2	646.2	665.8
47.5°	1025.6	792.3	620.0	633.8	662.2
50°	940.5	708.7	580.8	625.8	659.2
52.5°	835.1	633.8	549.5	618.5	654.9
55°	744.3	562.6	523.3	608.4	646.2
57.5°	639.6	498.6	500.1	595.3	633.1
60°	552.4	440.5	477.5	577.1	613.5
62.5°	463.7	388.1	452.8	553.1	585.8
65°	380.1	340.2	425.9	521.9	549.5
67.5°	310.4	296.6	395.4	484.1	507.3
70°	251.5	256.6	362.0	441.9	461.5
72.5°	193.3	219.5	325.6	396.9	413.6
75°	147.5	184.6	287.1	351.8	366.3
77.5°	109.0	154.1	252.2	311.1	323.4
80°	77.0	127.2	219.5	275.5	284.9
82.5°	51.6	104.7	192.6	243.5	252.2
85°	29.8	85.8	169.4	216.6	222.4
87.5°	12.4	71.2	150.5	189.0	191.9
90°	1.5	60.3	133.7	161.4	159.9
92.5°	1.5	54.5	119.2	135.2	131.6
95°	1.5	50.9	106.1	113.4	109.8
97.5°	1.5	48.7	94.5	97.4	93.8
100°	0.7	47.2	86.5	86.5	82.9
102.5°	0.7	45.8	80.7	78.5	75.6
105°	0.7	44.3	76.3	74.1	70.5
107.5°	0.7	43.6	73.4	71.2	67.6
110°	0.7	42.2	71.2	69.1	66.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.7	41.4	69.8	68.3	64.7
115°	0.7	40.0	67.6	66.9	64.7
117.5°	0.7	38.5	66.1	66.1	64.0
120°	0.7	37.1	64.0	65.4	63.2
122.5°	0.7	35.6	61.8	64.0	61.8
125°	0.7	34.2	59.6	62.5	61.1
127.5°	1.5	32.0	56.7	61.1	59.6
130°	0.7	29.8	53.8	59.6	58.9
132.5°	1.5	27.6	50.9	57.4	57.4
135°	1.5	25.4	47.2	55.2	55.2
137.5°	1.5	22.5	43.6	52.3	53.1
140°	1.5	20.4	40.0	49.4	50.9
142.5°	1.5	18.2	36.3	46.5	48.7
145°	1.5	16.0	32.7	42.9	45.8
147.5°	1.5	14.5	29.1	38.5	42.9
150°	1.5	12.4	26.2	34.9	39.2
152.5°	1.5	10.9	23.3	31.3	36.3
155°	1.5	10.2	20.4	26.9	32.7
157.5°	1.5	8.7	17.4	23.3	29.1
160°	1.5	7.3	14.5	20.4	24.7
162.5°	1.5	6.5	12.4	16.7	21.8
165°	1.5	5.8	10.2	13.1	17.4
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)