

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-SLC-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 (P27404)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-41SL-SLC-UNV-L835-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

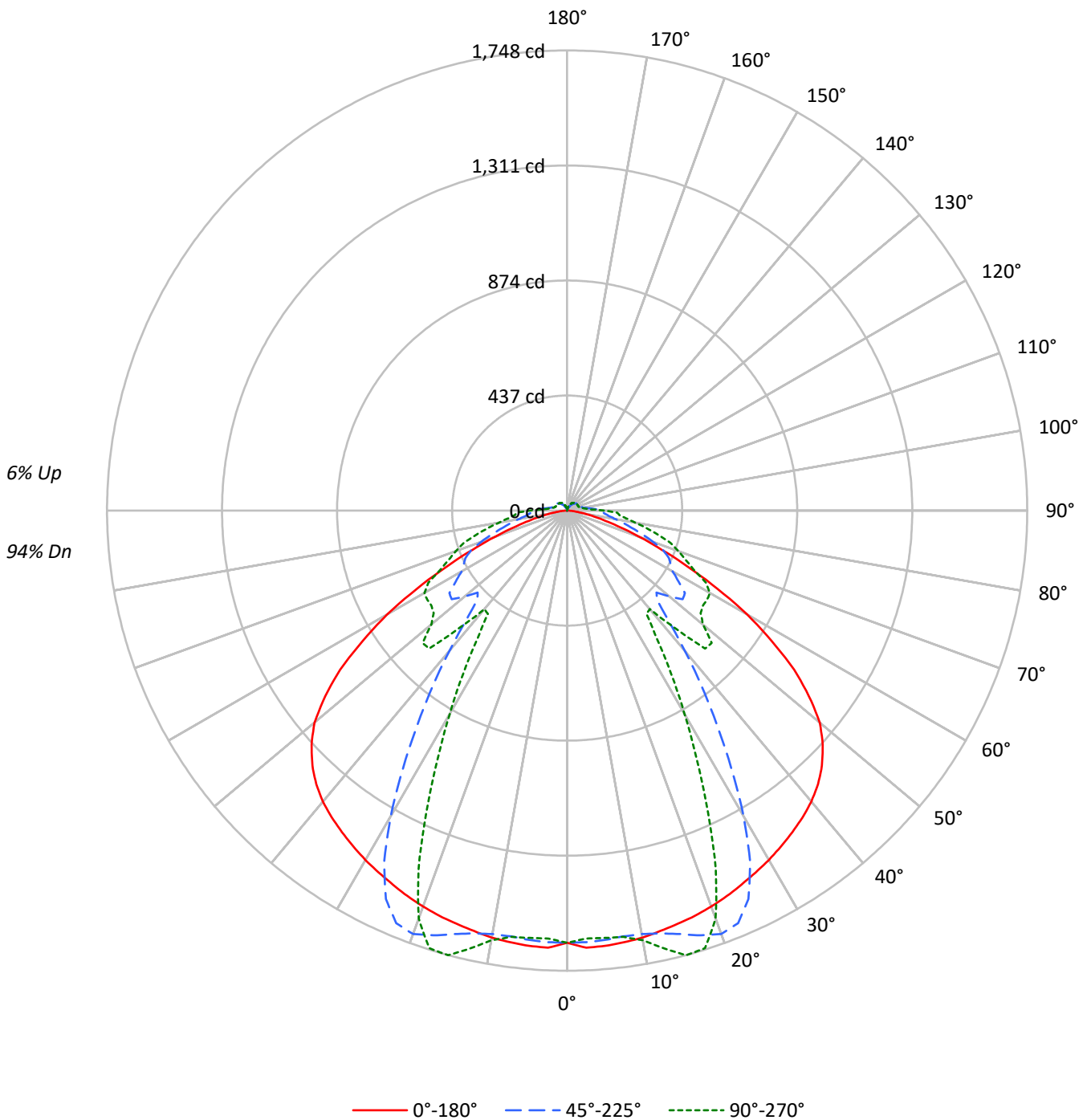
Lumens per Lamp: N/A
Luminaire Lumens: 4217.0 lumens
Efficiency: N/A
Efficacy: 136.0 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 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	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°	13266	13266	13266
5°	13427	12956	12796
10°	13445	12758	12752
15°	13481	12938	13291
20°	13606	13323	12475
25°	13776	12804	9606
30°	14047	10724	6832
35°	14396	8122	4627
40°	14835	5904	3917
45°	15172	4283	6159
50°	15194	4743	5845
55°	14202	5458	5772
60°	12100	4994	6135
65°	9104	5038	5612
70°	6388	4586	5224
75°	4186	3842	4687
80°	2672	3290	3901
85°	1441	3128	3502



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.2	3.7
10°-20°	471.7	11.2
20°-30°	685.2	16.2
30°-40°	654.6	15.5
40°-50°	598.8	14.2
50°-60°	552.9	13.1
60°-70°	439.2	10.4
70°-80°	271.1	6.4
80°-90°	147.6	3.5
90°-100°	74.6	1.8
100°-110°	46.9	1.1
110°-120°	39.7	0.9
120°-130°	32.4	0.8
130°-140°	23.3	0.6
140°-150°	14.3	0.3
150°-160°	6.8	0.2
160°-170°	1.8	0.0
170°-180°	0.0	0.0
0°-30°	1313.0	31.1
0°-40°	1967.6	46.7
0°-60°	3119.3	74.0
0°-90°	3977.2	94.3
90°-120°	161.2	3.8
90°-150°	231.2	5.5
90°-180°	240.0	5.7
0°-180°	4217.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1642	1642	1642	1642	1642	
5°	1660	1634	1637	1629	1629	158
15°	1625	1603	1666	1727	1748	460
25°	1568	1598	1629	1379	1266	724
35°	1491	1467	989	681	592	935
45°	1369	955	482	616	741	1052
55°	1053	490	546	588	629	927
65°	508	318	426	517	530	514
75°	150	169	255	338	360	170
85°	21	72	145	197	200	27
90°	1	54	129	153	142	1
95°	0	50	89	79	75	0
105°	0	45	55	50	49	0
115°	0	37	53	47	45	0
125°	1	30	47	46	44	1
135°	1	21	38	41	40	1
145°	1	13	26	33	36	0
155°	2	8	16	21	25	1
165°	2	4	8	10	14	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°	1641.6	1641.6	1641.6	1641.6	1641.6
2.5°	1662.0	1638.0	1640.9	1635.8	1627.1
5°	1659.8	1634.4	1637.3	1628.6	1629.3
7.5°	1654.0	1627.8	1631.5	1630.0	1633.6
10°	1647.5	1619.8	1633.6	1646.0	1656.9
12.5°	1635.8	1611.1	1644.5	1680.9	1703.4
15°	1624.9	1603.1	1665.6	1727.4	1748.5
17.5°	1614.0	1600.2	1691.8	1745.6	1742.7
20°	1600.2	1598.8	1711.4	1693.2	1648.9
22.5°	1585.0	1599.5	1696.1	1563.2	1475.9
25°	1567.5	1598.0	1628.6	1378.6	1265.9
27.5°	1550.1	1591.5	1505.7	1176.5	1065.4
30°	1532.6	1574.1	1340.1	992.0	890.9
32.5°	1512.3	1536.3	1159.8	828.4	735.4
35°	1491.2	1467.2	989.1	680.9	592.3
37.5°	1469.4	1367.7	835.7	551.6	494.9
40°	1443.2	1242.7	694.7	473.1	488.3
42.5°	1410.5	1101.7	570.5	496.3	602.4
45°	1369.1	954.9	482.5	615.5	741.2
47.5°	1316.8	813.9	460.7	704.9	744.2
50°	1253.6	684.6	506.5	675.8	672.9
52.5°	1157.6	577.0	553.0	616.3	639.5
55°	1053.0	489.8	546.5	587.9	629.3
57.5°	920.7	430.9	501.4	582.1	630.1
60°	789.2	391.7	462.9	581.4	626.4
62.5°	643.9	356.1	443.3	567.6	594.4
65°	508.0	317.6	425.9	517.4	529.8
67.5°	389.5	278.3	395.3	461.5	486.2
70°	293.6	239.8	347.4	418.6	449.1
72.5°	211.5	203.5	298.0	380.8	412.8
75°	149.7	169.3	255.1	337.9	360.4
77.5°	103.2	138.1	218.7	290.7	308.9
80°	67.6	110.5	186.0	250.0	262.3
82.5°	40.7	88.7	161.3	218.7	225.3
85°	21.1	71.9	144.6	196.9	199.8
87.5°	6.5	60.3	135.2	186.8	190.4
90°	0.7	53.8	129.4	153.3	141.7
92.5°	0.0	50.9	111.9	104.6	93.7
95°	0.0	50.1	89.4	79.2	74.9
97.5°	0.0	48.7	73.4	66.1	64.0
100°	0.0	47.2	63.2	58.1	57.4
102.5°	0.0	46.5	57.4	53.0	52.3
105°	0.0	45.1	55.2	50.1	49.4
107.5°	0.0	42.9	53.8	48.7	47.2
110°	0.0	40.7	53.8	48.0	45.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	38.5	53.8	47.2	45.1
115°	0.0	37.1	53.0	47.2	45.1
117.5°	0.7	35.6	52.3	47.2	45.1
120°	0.0	34.2	50.9	47.2	44.3
122.5°	0.7	32.0	49.4	46.5	44.3
125°	0.7	29.8	47.2	45.8	43.6
127.5°	0.7	27.6	45.1	44.3	42.1
130°	0.7	25.4	42.9	43.6	41.4
132.5°	0.7	23.3	40.0	42.1	40.7
135°	0.7	21.1	37.8	41.4	40.0
137.5°	0.7	18.9	34.9	39.2	39.2
140°	0.7	16.7	32.0	37.8	38.5
142.5°	0.7	15.3	29.1	36.3	37.1
145°	0.7	13.1	26.2	33.4	35.6
147.5°	0.7	11.6	23.3	30.5	33.4
150°	0.7	10.2	20.3	27.6	30.5
152.5°	0.7	8.7	18.2	24.0	28.3
155°	1.5	8.0	16.0	21.1	25.4
157.5°	1.5	6.5	13.1	18.2	21.8
160°	1.5	5.8	11.6	15.3	19.6
162.5°	1.5	5.1	9.4	13.1	16.7
165°	1.5	4.4	8.0	10.2	13.8
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)