

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-L840-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-L840-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

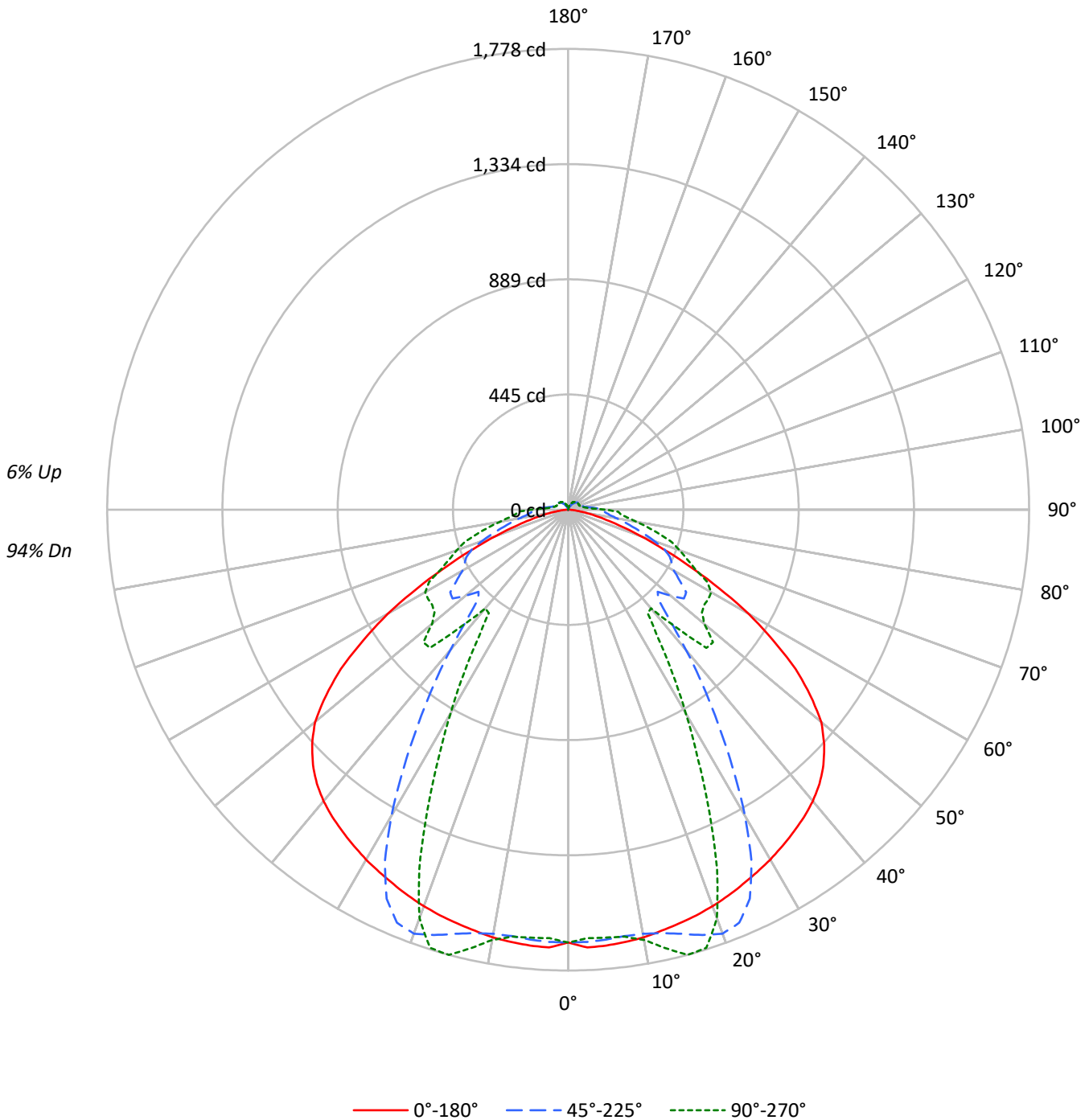
Lumens per Lamp: N/A
Luminaire Lumens: 4289.0 lumens
Efficiency: N/A
Efficacy: 138.4 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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	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°	13493	13493	13493
5°	13656	13176	13015
10°	13674	12976	12970
15°	13712	13159	13518
20°	13839	13550	12689
25°	14011	13023	9770
30°	14288	10907	6950
35°	14642	8260	4706
40°	15089	6005	3985
45°	15432	4356	6264
50°	15454	4824	5945
55°	14444	5551	5871
60°	12307	5079	6240
65°	9258	5123	5708
70°	6497	4663	5313
75°	4259	3907	4767
80°	2716	3347	3968
85°	1462	3182	3563



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.8	3.7
10°-20°	479.7	11.2
20°-30°	696.9	16.2
30°-40°	665.8	15.5
40°-50°	609.0	14.2
50°-60°	562.3	13.1
60°-70°	446.7	10.4
70°-80°	275.7	6.4
80°-90°	150.1	3.5
90°-100°	75.9	1.8
100°-110°	47.7	1.1
110°-120°	40.4	0.9
120°-130°	33.0	0.8
130°-140°	23.7	0.6
140°-150°	14.6	0.3
150°-160°	6.9	0.2
160°-170°	1.8	0.0
170°-180°	0.0	0.0
0°-30°	1335.4	31.1
0°-40°	2001.2	46.7
0°-60°	3172.6	74.0
0°-90°	4045.1	94.3
90°-120°	163.9	3.8
90°-150°	235.2	5.5
90°-180°	244.0	5.7
0°-180°	4289.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1670	1670	1670	1670	1670	
5°	1688	1662	1665	1656	1657	161
15°	1653	1630	1694	1757	1778	468
25°	1594	1625	1656	1402	1288	737
35°	1517	1492	1006	693	602	951
45°	1392	971	491	626	754	1070
55°	1071	498	556	598	640	943
65°	517	323	433	526	539	522
75°	152	172	259	344	367	173
85°	21	73	147	200	203	27
90°	1	55	132	156	144	1
95°	0	51	91	81	76	0
105°	0	46	56	51	50	0
115°	0	38	54	48	46	0
125°	1	30	48	47	44	1
135°	1	21	38	42	41	1
145°	1	13	27	34	36	0
155°	2	8	16	21	26	1
165°	2	4	8	10	14	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 4SNLED-LD5-41SL-SLC-UNV-L840-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1669.7	1669.7	1669.7	1669.7	1669.7
2.5°	1690.4	1666.0	1668.9	1663.8	1654.9
5°	1688.1	1662.3	1665.2	1656.4	1657.1
7.5°	1682.2	1655.6	1659.3	1657.8	1661.5
10°	1675.6	1647.5	1661.5	1674.1	1685.2
12.5°	1663.8	1638.6	1672.6	1709.6	1732.5
15°	1652.7	1630.5	1694.1	1756.9	1778.3
17.5°	1641.6	1627.5	1720.7	1775.4	1772.4
20°	1627.5	1626.1	1740.6	1722.1	1677.1
22.5°	1612.0	1626.8	1725.1	1589.8	1501.1
25°	1594.3	1625.3	1656.4	1402.1	1287.5
27.5°	1576.5	1618.7	1531.5	1196.6	1083.5
30°	1558.8	1600.9	1362.9	1008.9	906.2
32.5°	1538.1	1562.5	1179.6	842.6	748.0
35°	1516.7	1492.3	1005.9	692.6	602.4
37.5°	1494.5	1391.0	850.0	561.0	503.3
40°	1467.9	1263.9	706.6	481.2	496.7
42.5°	1434.6	1120.5	580.2	504.8	612.7
45°	1392.5	971.2	490.8	626.0	753.9
47.5°	1339.3	827.8	468.6	716.9	756.9
50°	1275.0	696.2	515.2	687.4	684.4
52.5°	1177.4	586.9	562.5	626.8	650.4
55°	1071.0	498.2	555.8	597.9	640.1
57.5°	936.5	438.3	510.0	592.0	640.8
60°	802.7	398.4	470.8	591.3	637.1
62.5°	654.9	362.2	450.9	577.3	604.6
65°	516.6	323.0	433.1	526.3	538.8
67.5°	396.2	283.1	402.1	469.3	494.5
70°	298.6	243.9	353.3	425.7	456.8
72.5°	215.1	207.0	303.0	387.3	419.8
75°	152.3	172.2	259.4	343.7	366.6
77.5°	105.0	140.4	222.5	295.6	314.1
80°	68.7	112.3	189.2	254.3	266.8
82.5°	41.4	90.2	164.1	222.5	229.1
85°	21.4	73.2	147.1	200.3	203.3
87.5°	6.7	61.3	137.5	190.0	193.6
90°	0.7	54.7	131.6	156.0	144.1
92.5°	0.0	51.7	113.8	106.4	95.3
95°	0.0	51.0	90.9	80.6	76.1
97.5°	0.0	49.5	74.7	67.3	65.0
100°	0.0	48.0	64.3	59.1	58.4
102.5°	0.0	47.3	58.4	54.0	53.2
105°	0.0	45.8	56.2	51.0	50.3
107.5°	0.0	43.6	54.7	49.5	48.0
110°	0.0	41.4	54.7	48.8	46.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	39.2	54.7	48.0	45.8
115°	0.0	37.7	54.0	48.0	45.8
117.5°	0.7	36.2	53.2	48.0	45.8
120°	0.0	34.7	51.7	48.0	45.1
122.5°	0.7	32.5	50.3	47.3	45.1
125°	0.7	30.3	48.0	46.6	44.3
127.5°	0.7	28.1	45.8	45.1	42.9
130°	0.7	25.9	43.6	44.3	42.1
132.5°	0.7	23.7	40.7	42.9	41.4
135°	0.7	21.4	38.4	42.1	40.7
137.5°	0.7	19.2	35.5	39.9	39.9
140°	0.7	17.0	32.5	38.4	39.2
142.5°	0.7	15.5	29.6	37.0	37.7
145°	0.7	13.3	26.6	34.0	36.2
147.5°	0.7	11.8	23.7	31.0	34.0
150°	0.7	10.3	20.7	28.1	31.0
152.5°	0.7	8.9	18.5	24.4	28.8
155°	1.5	8.1	16.3	21.4	25.9
157.5°	1.5	6.7	13.3	18.5	22.2
160°	1.5	5.9	11.8	15.5	20.0
162.5°	1.5	5.2	9.6	13.3	17.0
165°	1.5	4.4	8.1	10.3	14.0
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)