

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-L950-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-L950-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

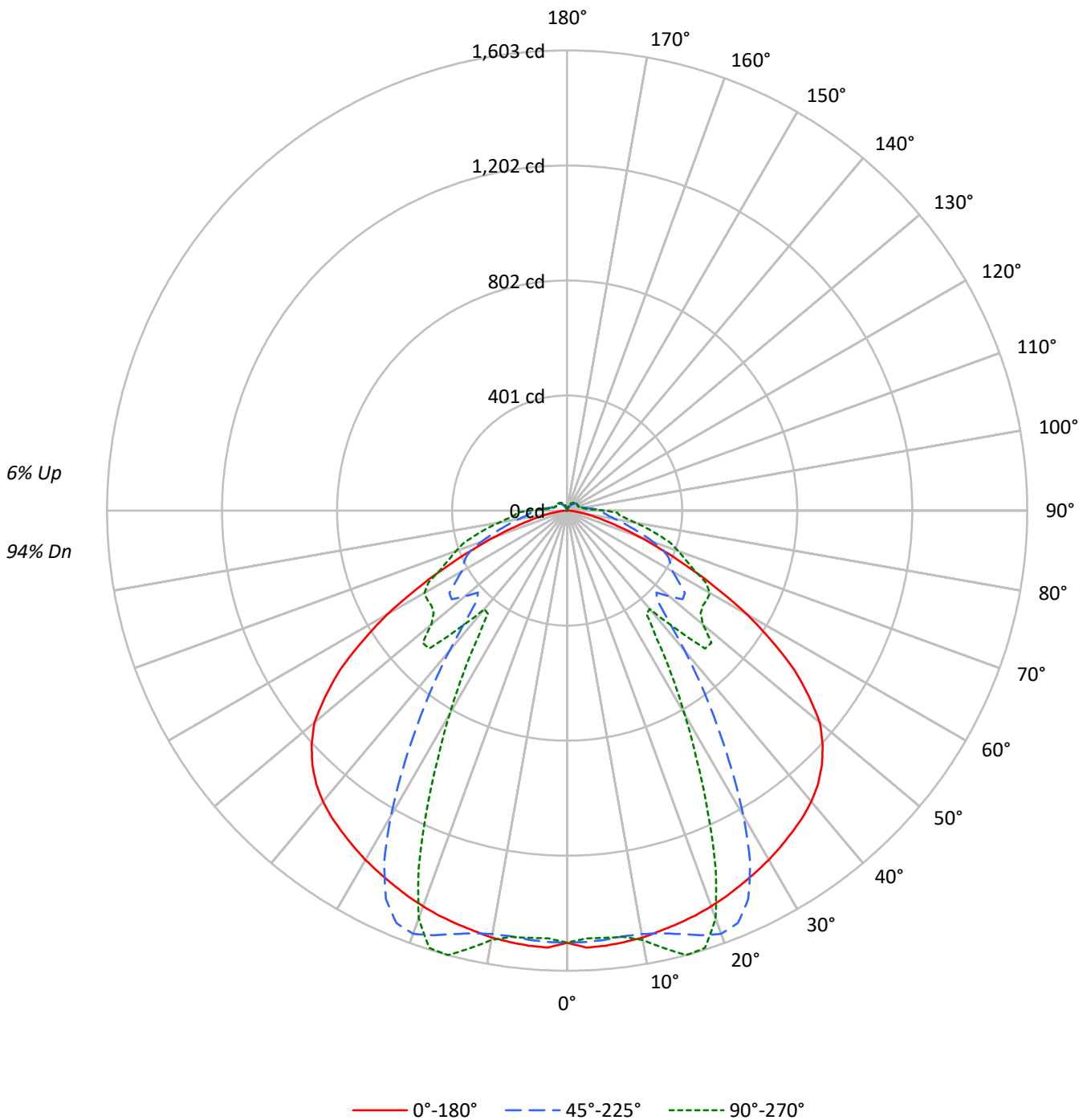
Lumens per Lamp: N/A
Luminaire Lumens: 3866.0 lumens
Efficiency: N/A
Efficacy: 124.7 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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	64	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°	12162	12162	12162
5°	12310	11877	11731
10°	12325	11697	11691
15°	12359	11861	12184
20°	12474	12215	11437
25°	12629	11738	8807
30°	12879	9831	6264
35°	13198	7446	4242
40°	13601	5413	3592
45°	13910	3927	5646
50°	13929	4348	5358
55°	13020	5004	5291
60°	11093	4579	5625
65°	8346	4618	5145
70°	5858	4204	4789
75°	3836	3521	4297
80°	2451	3018	3577
85°	1319	2868	3211



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.2	3.7
10°-20°	432.4	11.2
20°-30°	628.1	16.2
30°-40°	600.1	15.5
40°-50°	549.0	14.2
50°-60°	506.9	13.1
60°-70°	402.6	10.4
70°-80°	248.5	6.4
80°-90°	135.3	3.5
90°-100°	68.4	1.8
100°-110°	43.0	1.1
110°-120°	36.4	0.9
120°-130°	29.7	0.8
130°-140°	21.3	0.6
140°-150°	13.2	0.3
150°-160°	6.2	0.2
160°-170°	1.6	0.0
170°-180°	0.0	0.0
0°-30°	1203.7	31.1
0°-40°	1803.8	46.7
0°-60°	2859.7	74.0
0°-90°	3646.2	94.3
90°-120°	147.8	3.8
90°-150°	212.0	5.5
90°-180°	220.0	5.7
0°-180°	3866.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1505	1505	1505	1505	1505	
5°	1522	1498	1501	1493	1494	145
15°	1490	1470	1527	1584	1603	422
25°	1437	1465	1493	1264	1161	664
35°	1367	1345	907	624	543	857
45°	1255	875	442	564	680	965
55°	965	449	501	539	577	850
65°	466	291	390	474	486	471
75°	137	155	234	310	330	156
85°	19	66	133	180	183	25
90°	1	49	119	141	130	1
95°	0	46	82	73	69	0
105°	0	41	51	46	45	0
115°	0	34	49	43	41	0
125°	1	27	43	42	40	1
135°	1	19	35	38	37	1
145°	1	12	24	31	33	0
155°	1	7	15	19	23	0
165°	1	4	7	9	13	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1505.0	1505.0	1505.0	1505.0	1505.0
2.5°	1523.7	1501.7	1504.3	1499.7	1491.7
5°	1521.7	1498.3	1501.0	1493.0	1493.7
7.5°	1516.3	1492.3	1495.7	1494.3	1497.7
10°	1510.3	1485.0	1497.7	1509.0	1519.0
12.5°	1499.7	1477.0	1507.7	1541.0	1561.6
15°	1489.7	1469.7	1527.0	1583.6	1602.9
17.5°	1479.7	1467.0	1551.0	1600.3	1597.6
20°	1467.0	1465.7	1569.0	1552.3	1511.7
22.5°	1453.0	1466.4	1555.0	1433.0	1353.1
25°	1437.0	1465.0	1493.0	1263.8	1160.6
27.5°	1421.1	1459.0	1380.4	1078.6	976.7
30°	1405.1	1443.0	1228.5	909.4	816.8
32.5°	1386.4	1408.4	1063.3	759.5	674.2
35°	1367.1	1345.1	906.7	624.3	543.0
37.5°	1347.1	1253.8	766.2	505.7	453.7
40°	1323.1	1139.2	636.9	433.7	447.7
42.5°	1293.1	1010.0	523.0	455.0	552.3
45°	1255.2	875.4	442.4	564.3	679.5
47.5°	1207.2	746.2	422.4	646.2	682.2
50°	1149.2	627.6	464.4	619.6	616.9
52.5°	1061.3	529.0	507.0	565.0	586.3
55°	965.4	449.0	501.0	539.0	576.9
57.5°	844.1	395.1	459.7	533.6	577.6
60°	723.5	359.1	424.4	533.0	574.3
62.5°	590.3	326.4	406.4	520.3	545.0
65°	465.7	291.1	390.4	474.4	485.7
67.5°	357.1	255.2	362.4	423.1	445.7
70°	269.2	219.9	318.5	383.7	411.7
72.5°	193.9	186.5	273.2	349.1	378.4
75°	137.2	155.2	233.8	309.8	330.4
77.5°	94.6	126.6	200.5	266.5	283.1
80°	62.0	101.3	170.6	229.2	240.5
82.5°	37.3	81.3	147.9	200.5	206.5
85°	19.3	66.0	132.6	180.5	183.2
87.5°	6.0	55.3	123.9	171.2	174.6
90°	0.7	49.3	118.6	140.6	129.9
92.5°	0.0	46.6	102.6	95.9	85.9
95°	0.0	46.0	81.9	72.6	68.6
97.5°	0.0	44.6	67.3	60.6	58.6
100°	0.0	43.3	58.0	53.3	52.6
102.5°	0.0	42.6	52.6	48.6	48.0
105°	0.0	41.3	50.6	46.0	45.3
107.5°	0.0	39.3	49.3	44.6	43.3
110°	0.0	37.3	49.3	44.0	42.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	35.3	49.3	43.3	41.3
115°	0.0	34.0	48.6	43.3	41.3
117.5°	0.7	32.6	48.0	43.3	41.3
120°	0.0	31.3	46.6	43.3	40.6
122.5°	0.7	29.3	45.3	42.6	40.6
125°	0.7	27.3	43.3	42.0	40.0
127.5°	0.7	25.3	41.3	40.6	38.6
130°	0.7	23.3	39.3	40.0	38.0
132.5°	0.7	21.3	36.6	38.6	37.3
135°	0.7	19.3	34.6	38.0	36.6
137.5°	0.7	17.3	32.0	36.0	36.0
140°	0.7	15.3	29.3	34.6	35.3
142.5°	0.7	14.0	26.6	33.3	34.0
145°	0.7	12.0	24.0	30.6	32.6
147.5°	0.7	10.7	21.3	28.0	30.6
150°	0.7	9.3	18.7	25.3	28.0
152.5°	0.7	8.0	16.7	22.0	26.0
155°	1.3	7.3	14.7	19.3	23.3
157.5°	1.3	6.0	12.0	16.7	20.0
160°	1.3	5.3	10.7	14.0	18.0
162.5°	1.3	4.7	8.7	12.0	15.3
165°	1.3	4.0	7.3	9.3	12.7
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)