

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

Summary

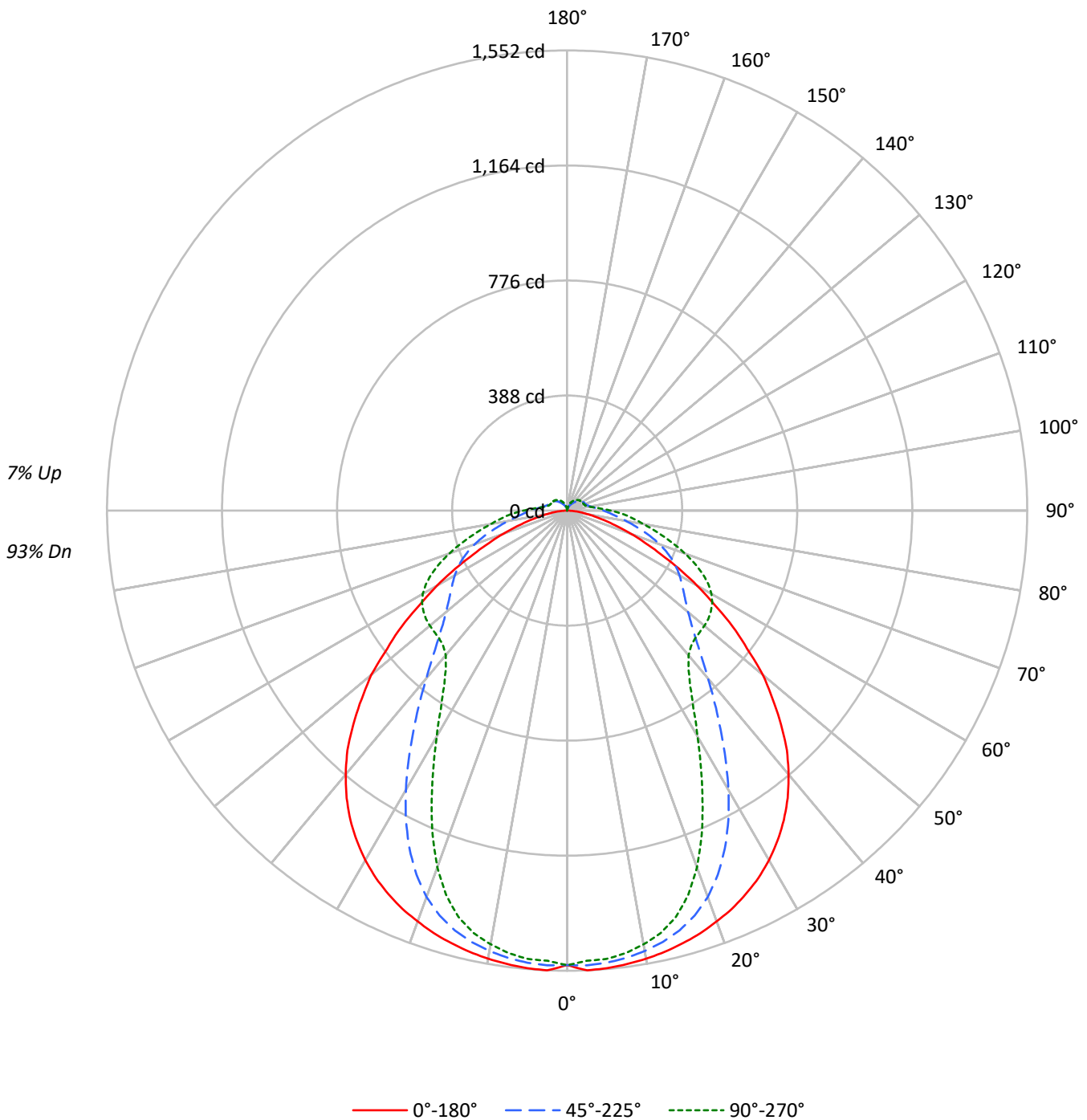
Lumens per Lamp: N/A
Luminaire Lumens: 3855.0 lumens
Efficiency: N/A
Efficacy: 124.4 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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°	12387	12387	12387
5°	12530	12114	11924
10°	12526	11779	11434
15°	12530	11384	10781
20°	12536	10798	9683
25°	12541	9894	8200
30°	12481	8706	6744
35°	12303	7407	5652
40°	11943	6273	5109
45°	11310	5452	5070
50°	10448	4984	5248
55°	9201	4791	5432
60°	7763	4722	5507
65°	6243	4618	5335
70°	5015	4380	4920
75°	3780	3963	4367
80°	2791	3559	3883
85°	1865	3357	3573



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.0	3.8
10°-20°	409.9	10.6
20°-30°	573.0	14.9
30°-40°	594.4	15.4
40°-50°	549.1	14.2
50°-60°	490.2	12.7
60°-70°	397.3	10.3
70°-80°	264.3	6.9
80°-90°	151.3	3.9
90°-100°	83.7	2.2
100°-110°	56.7	1.5
110°-120°	47.2	1.2
120°-130°	38.4	1.0
130°-140°	27.7	0.7
140°-150°	16.7	0.4
150°-160°	8.0	0.2
160°-170°	2.1	0.1
170°-180°	0.0	0.0
0°-30°	1128.0	29.3
0°-40°	1722.3	44.7
0°-60°	2761.6	71.6
0°-90°	3574.5	92.7
90°-120°	187.6	4.9
90°-150°	270.4	7.0
90°-180°	280.0	7.3
0°-180°	3855.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1533	1533	1533	1533	1533	
5°	1549	1523	1531	1520	1518	147
15°	1510	1478	1466	1432	1418	427
25°	1427	1364	1258	1126	1081	658
35°	1274	1134	902	758	724	795
45°	1021	809	614	592	610	785
55°	682	516	480	558	592	607
65°	348	312	390	478	504	352
75°	135	169	263	322	336	148
85°	27	79	155	198	204	31
90°	1	55	123	148	147	2
95°	1	47	97	104	101	1
105°	1	41	70	68	65	1
115°	1	37	62	61	59	1
125°	1	31	55	57	56	1
135°	1	23	43	51	51	1
145°	1	15	30	39	42	1
155°	1	9	19	25	30	1
165°	1	5	9	12	16	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°	1532.9	1532.9	1532.9	1532.9	1532.9
2.5°	1552.2	1526.9	1534.9	1528.2	1519.6
5°	1548.9	1522.9	1530.9	1520.2	1518.2
7.5°	1542.9	1516.9	1521.6	1508.9	1505.6
10°	1534.9	1507.6	1508.3	1490.3	1485.6
12.5°	1524.2	1494.3	1490.3	1465.6	1459.0
15°	1510.3	1478.3	1465.6	1432.3	1418.3
17.5°	1494.9	1457.6	1431.6	1380.3	1358.4
20°	1474.3	1432.3	1387.0	1309.1	1279.8
22.5°	1453.6	1401.7	1329.0	1225.1	1185.8
25°	1427.0	1363.7	1258.4	1126.5	1080.6
27.5°	1397.0	1319.1	1177.2	1025.3	976.0
30°	1361.7	1265.1	1087.9	926.0	879.4
32.5°	1320.4	1204.5	994.0	836.7	793.4
35°	1274.4	1134.5	902.0	757.5	723.5
37.5°	1221.8	1057.9	816.7	693.5	671.5
40°	1161.8	974.6	738.1	644.2	636.9
42.5°	1097.2	893.4	670.9	612.2	618.9
45°	1020.6	808.8	614.2	592.2	610.2
47.5°	940.0	726.1	568.3	580.9	606.9
50°	862.0	649.5	532.3	573.6	604.2
52.5°	765.5	580.9	503.6	566.9	600.2
55°	682.2	515.6	479.7	557.6	592.2
57.5°	586.2	457.0	458.3	545.6	580.3
60°	506.3	403.7	437.7	529.0	562.3
62.5°	425.0	355.7	415.0	507.0	536.9
65°	348.4	311.8	390.4	478.3	503.6
67.5°	284.5	271.8	362.4	443.7	465.0
70°	230.5	235.2	331.8	405.0	423.0
72.5°	177.2	201.2	298.5	363.7	379.1
75°	135.2	169.2	263.1	322.4	335.8
77.5°	99.9	141.2	231.2	285.1	296.5
80°	70.6	116.6	201.2	252.5	261.1
82.5°	47.3	95.9	176.5	223.2	231.2
85°	27.3	78.6	155.2	198.5	203.9
87.5°	11.3	65.3	137.9	173.2	175.9
90°	1.3	55.3	122.6	147.9	146.6
92.5°	1.3	50.0	109.3	123.9	120.6
95°	1.3	46.6	97.3	103.9	100.6
97.5°	1.3	44.6	86.6	89.3	85.9
100°	0.7	43.3	79.3	79.3	75.9
102.5°	0.7	42.0	73.9	71.9	69.3
105°	0.7	40.6	69.9	68.0	64.6
107.5°	0.7	40.0	67.3	65.3	62.0
110°	0.7	38.6	65.3	63.3	60.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.7	38.0	64.0	62.6	59.3
115°	0.7	36.6	62.0	61.3	59.3
117.5°	0.7	35.3	60.6	60.6	58.6
120°	0.7	34.0	58.6	60.0	58.0
122.5°	0.7	32.6	56.6	58.6	56.6
125°	0.7	31.3	54.6	57.3	56.0
127.5°	1.3	29.3	52.0	56.0	54.6
130°	0.7	27.3	49.3	54.6	54.0
132.5°	1.3	25.3	46.6	52.6	52.6
135°	1.3	23.3	43.3	50.6	50.6
137.5°	1.3	20.7	40.0	48.0	48.6
140°	1.3	18.7	36.6	45.3	46.6
142.5°	1.3	16.7	33.3	42.6	44.6
145°	1.3	14.7	30.0	39.3	42.0
147.5°	1.3	13.3	26.6	35.3	39.3
150°	1.3	11.3	24.0	32.0	36.0
152.5°	1.3	10.0	21.3	28.6	33.3
155°	1.3	9.3	18.7	24.6	30.0
157.5°	1.3	8.0	16.0	21.3	26.6
160°	1.3	6.7	13.3	18.7	22.7
162.5°	1.3	6.0	11.3	15.3	20.0
165°	1.3	5.3	9.3	12.0	16.0
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)