

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-L930-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-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

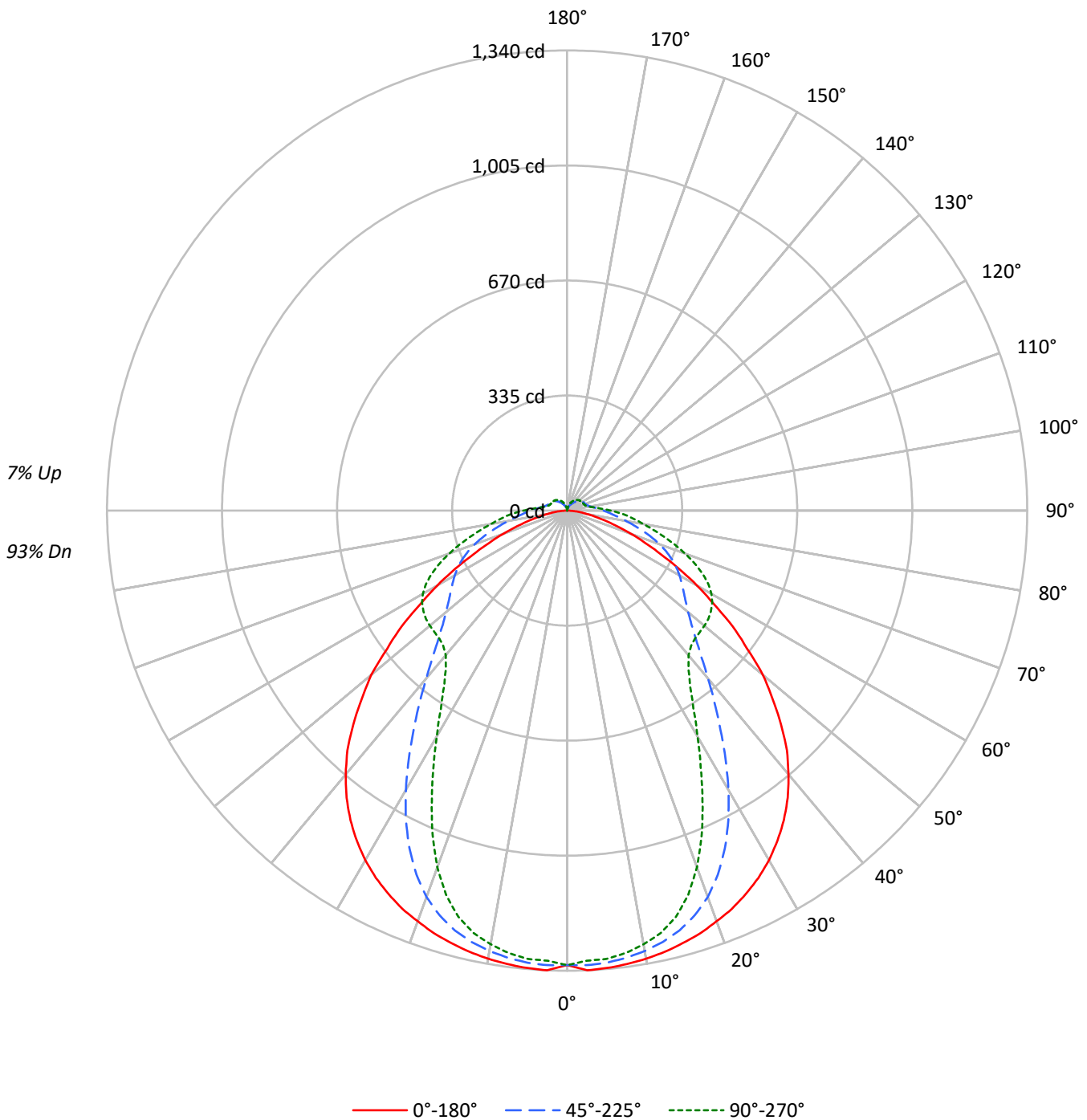
Lumens per Lamp: N/A
Luminaire Lumens: 3328.0 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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°	10694	10694	10694
5°	10817	10458	10294
10°	10814	10169	9870
15°	10817	9828	9307
20°	10822	9322	8359
25°	10826	8542	7078
30°	10774	7516	5822
35°	10621	6395	4879
40°	10310	5415	4411
45°	9764	4707	4377
50°	9020	4302	4531
55°	7942	4136	4690
60°	6702	4077	4754
65°	5390	3986	4606
70°	4330	3780	4248
75°	3263	3422	3770
80°	2411	3073	3352
85°	1612	2899	3084



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.2	3.8
10°-20°	353.9	10.6
20°-30°	494.7	14.9
30°-40°	513.1	15.4
40°-50°	474.0	14.2
50°-60°	423.2	12.7
60°-70°	343.0	10.3
70°-80°	228.1	6.9
80°-90°	130.6	3.9
90°-100°	72.3	2.2
100°-110°	49.0	1.5
110°-120°	40.8	1.2
120°-130°	33.1	1.0
130°-140°	23.9	0.7
140°-150°	14.4	0.4
150°-160°	6.9	0.2
160°-170°	1.8	0.1
170°-180°	0.0	0.0
0°-30°	973.8	29.3
0°-40°	1486.9	44.7
0°-60°	2384.1	71.6
0°-90°	3085.9	92.7
90°-120°	162.0	4.9
90°-150°	233.4	7.0
90°-180°	242.0	7.3
0°-180°	3328.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1323	1323	1323	1323	1323	
5°	1337	1315	1322	1312	1311	127
15°	1304	1276	1265	1236	1224	368
25°	1232	1177	1086	972	933	568
35°	1100	979	779	654	625	686
45°	881	698	530	511	527	677
55°	589	445	414	481	511	524
65°	301	269	337	413	435	304
75°	117	146	227	278	290	128
85°	24	68	134	171	176	27
90°	1	48	106	128	126	2
95°	1	40	84	90	87	1
105°	1	35	60	59	56	1
115°	1	32	54	53	51	1
125°	1	27	47	50	48	1
135°	1	20	37	44	44	1
145°	1	13	26	34	36	1
155°	1	8	16	21	26	1
165°	1	5	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°	1323.3	1323.3	1323.3	1323.3	1323.3
2.5°	1340.0	1318.2	1325.1	1319.3	1311.8
5°	1337.1	1314.7	1321.6	1312.4	1310.7
7.5°	1332.0	1309.5	1313.6	1302.6	1299.8
10°	1325.1	1301.5	1302.1	1286.5	1282.5
12.5°	1315.9	1290.0	1286.5	1265.3	1259.5
15°	1303.8	1276.2	1265.3	1236.5	1224.4
17.5°	1290.6	1258.4	1235.9	1191.6	1172.7
20°	1272.7	1236.5	1197.4	1130.1	1104.8
22.5°	1254.9	1210.0	1147.4	1057.6	1023.7
25°	1231.9	1177.3	1086.4	972.5	932.8
27.5°	1206.0	1138.7	1016.2	885.1	842.5
30°	1175.5	1092.1	939.2	799.4	759.2
32.5°	1139.9	1039.8	858.1	722.3	685.0
35°	1100.2	979.4	778.7	653.9	624.6
37.5°	1054.8	913.3	705.1	598.7	579.7
40°	1003.0	841.4	637.2	556.1	549.8
42.5°	947.2	771.2	579.1	528.5	534.3
45°	881.1	698.2	530.3	511.3	526.8
47.5°	811.5	626.9	490.6	501.5	523.9
50°	744.2	560.7	459.5	495.2	521.6
52.5°	660.8	501.5	434.8	489.4	518.2
55°	588.9	445.1	414.1	481.4	511.3
57.5°	506.1	394.5	395.7	471.0	500.9
60°	437.1	348.5	377.9	456.6	485.4
62.5°	366.9	307.1	358.3	437.7	463.5
65°	300.8	269.2	337.0	412.9	434.8
67.5°	245.6	234.6	312.9	383.0	401.4
70°	199.0	203.0	286.4	349.7	365.2
72.5°	153.0	173.7	257.7	314.0	327.2
75°	116.7	146.1	227.2	278.4	289.9
77.5°	86.3	121.9	199.6	246.2	255.9
80°	61.0	100.6	173.7	218.0	225.4
82.5°	40.8	82.8	152.4	192.7	199.6
85°	23.6	67.9	134.0	171.4	176.0
87.5°	9.8	56.4	119.0	149.5	151.8
90°	1.2	47.7	105.8	127.7	126.5
92.5°	1.2	43.1	94.3	107.0	104.1
95°	1.2	40.3	84.0	89.7	86.8
97.5°	1.2	38.5	74.8	77.1	74.2
100°	0.6	37.4	68.4	68.4	65.6
102.5°	0.6	36.2	63.8	62.1	59.8
105°	0.6	35.1	60.4	58.7	55.8
107.5°	0.6	34.5	58.1	56.4	53.5
110°	0.6	33.4	56.4	54.6	52.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.6	32.8	55.2	54.1	51.2
115°	0.6	31.6	53.5	52.9	51.2
117.5°	0.6	30.5	52.3	52.3	50.6
120°	0.6	29.3	50.6	51.8	50.0
122.5°	0.6	28.2	48.9	50.6	48.9
125°	0.6	27.0	47.2	49.5	48.3
127.5°	1.2	25.3	44.9	48.3	47.2
130°	0.6	23.6	42.6	47.2	46.6
132.5°	1.2	21.9	40.3	45.4	45.4
135°	1.2	20.1	37.4	43.7	43.7
137.5°	1.2	17.8	34.5	41.4	42.0
140°	1.2	16.1	31.6	39.1	40.3
142.5°	1.2	14.4	28.8	36.8	38.5
145°	1.2	12.7	25.9	33.9	36.2
147.5°	1.2	11.5	23.0	30.5	33.9
150°	1.2	9.8	20.7	27.6	31.1
152.5°	1.2	8.6	18.4	24.7	28.8
155°	1.2	8.1	16.1	21.3	25.9
157.5°	1.2	6.9	13.8	18.4	23.0
160°	1.2	5.8	11.5	16.1	19.6
162.5°	1.2	5.2	9.8	13.2	17.3
165°	1.2	4.6	8.1	10.4	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)