

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-LD5-34SL-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-LD5-34SL-SLN-UNV-L950-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

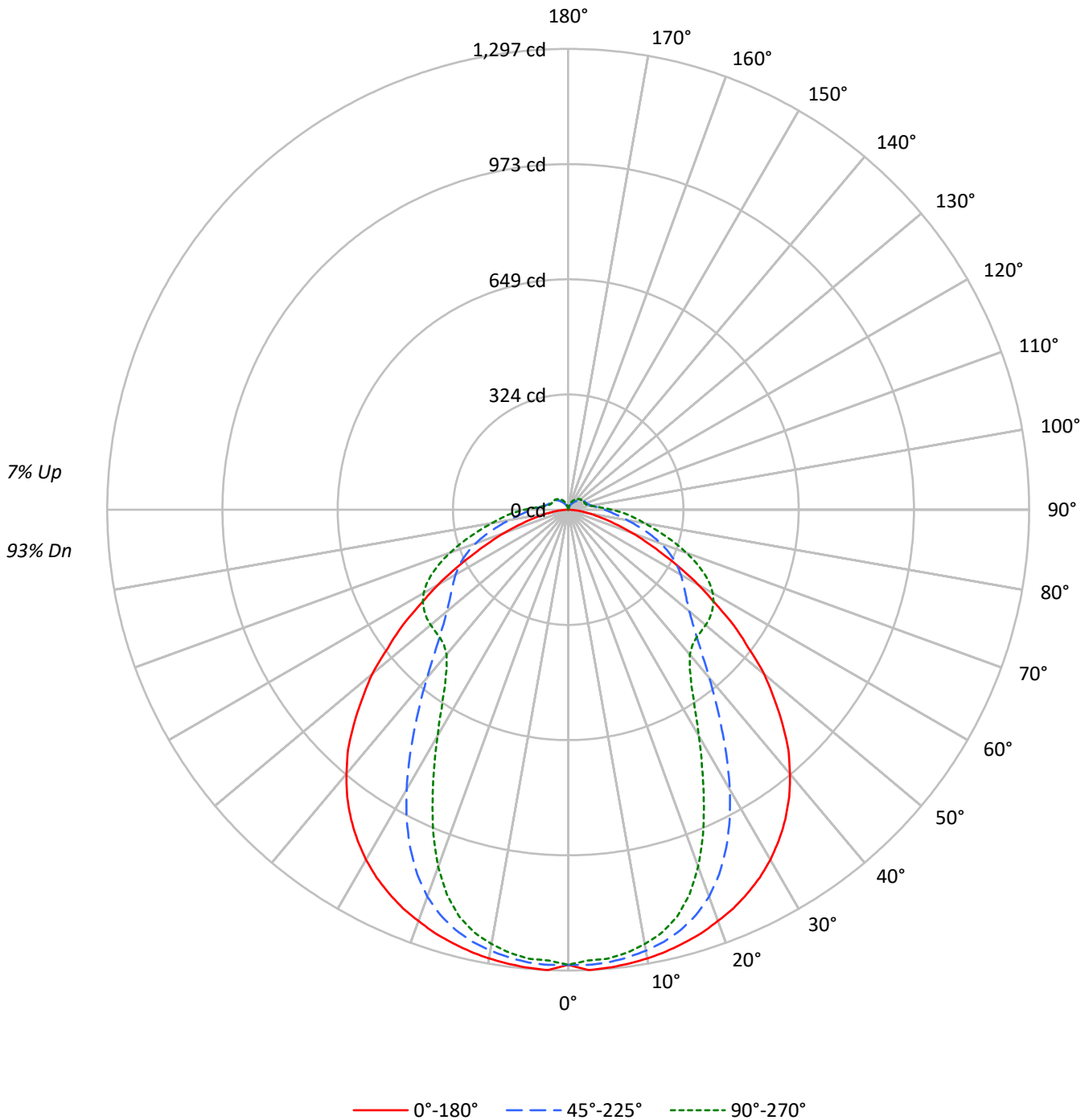
Lumens per Lamp: N/A
Luminaire Lumens: 3221.0 lumens
Efficiency: N/A
Efficacy: 128.8 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 25
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			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°	10350	10350	10350
5°	10470	10121	9964
10°	10466	9842	9553
15°	10469	9512	9009
20°	10474	9022	8090
25°	10478	8267	6851
30°	10428	7274	5634
35°	10279	6189	4722
40°	9979	5241	4269
45°	9451	4555	4237
50°	8730	4164	4386
55°	7688	4003	4538
60°	6486	3946	4601
65°	5217	3858	4458
70°	4191	3659	4112
75°	3160	3312	3648
80°	2332	2974	3245
85°	1558	2806	2985



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.2	3.8
10°-20°	342.5	10.6
20°-30°	478.8	14.9
30°-40°	496.6	15.4
40°-50°	458.8	14.2
50°-60°	409.6	12.7
60°-70°	332.0	10.3
70°-80°	220.8	6.9
80°-90°	126.4	3.9
90°-100°	70.0	2.2
100°-110°	47.4	1.5
110°-120°	39.4	1.2
120°-130°	32.1	1.0
130°-140°	23.1	0.7
140°-150°	13.9	0.4
150°-160°	6.7	0.2
160°-170°	1.7	0.1
170°-180°	0.0	0.0
0°-30°	942.4	29.3
0°-40°	1439.1	44.7
0°-60°	2307.5	71.6
0°-90°	2986.6	92.7
90°-120°	156.8	4.9
90°-150°	225.9	7.0
90°-180°	234.0	7.3
0°-180°	3221.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1281	1281	1281	1281	1281	
5°	1294	1272	1279	1270	1269	123
15°	1262	1235	1225	1197	1185	357
25°	1192	1139	1052	941	903	549
35°	1065	948	754	633	604	664
45°	853	676	513	495	510	656
55°	570	431	401	466	495	507
65°	291	260	326	400	421	294
75°	113	141	220	269	280	124
85°	23	66	130	166	170	26
90°	1	46	102	124	122	2
95°	1	39	81	87	84	1
105°	1	34	58	57	54	1
115°	1	31	52	51	50	1
125°	1	26	46	48	47	1
135°	1	20	36	42	42	1
145°	1	12	25	33	35	1
155°	1	8	16	21	25	1
165°	1	4	8	10	13	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°	1280.8	1280.8	1280.8	1280.8	1280.8
2.5°	1296.9	1275.8	1282.5	1276.9	1269.7
5°	1294.2	1272.4	1279.1	1270.2	1268.6
7.5°	1289.1	1267.4	1271.3	1260.8	1258.0
10°	1282.5	1259.6	1260.2	1245.2	1241.3
12.5°	1273.6	1248.5	1245.2	1224.6	1219.0
15°	1261.9	1235.2	1224.6	1196.7	1185.1
17.5°	1249.1	1217.9	1196.2	1153.3	1135.0
20°	1231.8	1196.7	1158.9	1093.8	1069.3
22.5°	1214.6	1171.1	1110.5	1023.6	990.8
25°	1192.3	1139.4	1051.5	941.3	902.8
27.5°	1167.2	1102.1	983.6	856.6	815.5
30°	1137.7	1057.0	909.0	773.7	734.7
32.5°	1103.2	1006.4	830.5	699.1	662.9
35°	1064.8	947.9	753.7	632.9	604.5
37.5°	1020.9	883.9	682.4	579.4	561.1
40°	970.8	814.3	616.7	538.3	532.1
42.5°	916.8	746.4	560.5	511.5	517.1
45°	852.8	675.7	513.2	494.8	509.9
47.5°	785.4	606.7	474.8	485.4	507.1
50°	720.3	542.7	444.7	479.3	504.9
52.5°	639.6	485.4	420.8	473.7	501.5
55°	570.0	430.8	400.8	465.9	494.8
57.5°	489.8	381.8	383.0	455.9	484.8
60°	423.0	337.3	365.7	442.0	469.8
62.5°	355.1	297.2	346.8	423.6	448.6
65°	291.1	260.5	326.2	399.7	420.8
67.5°	237.7	227.1	302.8	370.7	388.5
70°	192.6	196.5	277.2	338.4	353.5
72.5°	148.1	168.1	249.4	303.9	316.7
75°	113.0	141.4	219.9	269.4	280.5
77.5°	83.5	118.0	193.1	238.2	247.7
80°	59.0	97.4	168.1	211.0	218.2
82.5°	39.5	80.2	147.5	186.5	193.1
85°	22.8	65.7	129.7	165.9	170.3
87.5°	9.5	54.5	115.2	144.7	146.9
90°	1.1	46.2	102.4	123.6	122.5
92.5°	1.1	41.7	91.3	103.5	100.7
95°	1.1	39.0	81.3	86.8	84.1
97.5°	1.1	37.3	72.4	74.6	71.8
100°	0.6	36.2	66.2	66.2	63.5
102.5°	0.6	35.1	61.8	60.1	57.9
105°	0.6	34.0	58.4	56.8	54.0
107.5°	0.6	33.4	56.2	54.5	51.8
110°	0.6	32.3	54.5	52.9	50.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.6	31.7	53.4	52.3	49.5
115°	0.6	30.6	51.8	51.2	49.5
117.5°	0.6	29.5	50.7	50.7	49.0
120°	0.6	28.4	49.0	50.1	48.4
122.5°	0.6	27.3	47.3	49.0	47.3
125°	0.6	26.2	45.6	47.9	46.8
127.5°	1.1	24.5	43.4	46.8	45.6
130°	0.6	22.8	41.2	45.6	45.1
132.5°	1.1	21.2	39.0	44.0	44.0
135°	1.1	19.5	36.2	42.3	42.3
137.5°	1.1	17.3	33.4	40.1	40.6
140°	1.1	15.6	30.6	37.9	39.0
142.5°	1.1	13.9	27.8	35.6	37.3
145°	1.1	12.2	25.0	32.8	35.1
147.5°	1.1	11.1	22.3	29.5	32.8
150°	1.1	9.5	20.0	26.7	30.1
152.5°	1.1	8.3	17.8	23.9	27.8
155°	1.1	7.8	15.6	20.6	25.0
157.5°	1.1	6.7	13.4	17.8	22.3
160°	1.1	5.6	11.1	15.6	18.9
162.5°	1.1	5.0	9.5	12.8	16.7
165°	1.1	4.5	7.8	10.0	13.4
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)