

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-LD5-37SL-SLN-UNV-L940-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-LD5-37SL-SLN-UNV-L940-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

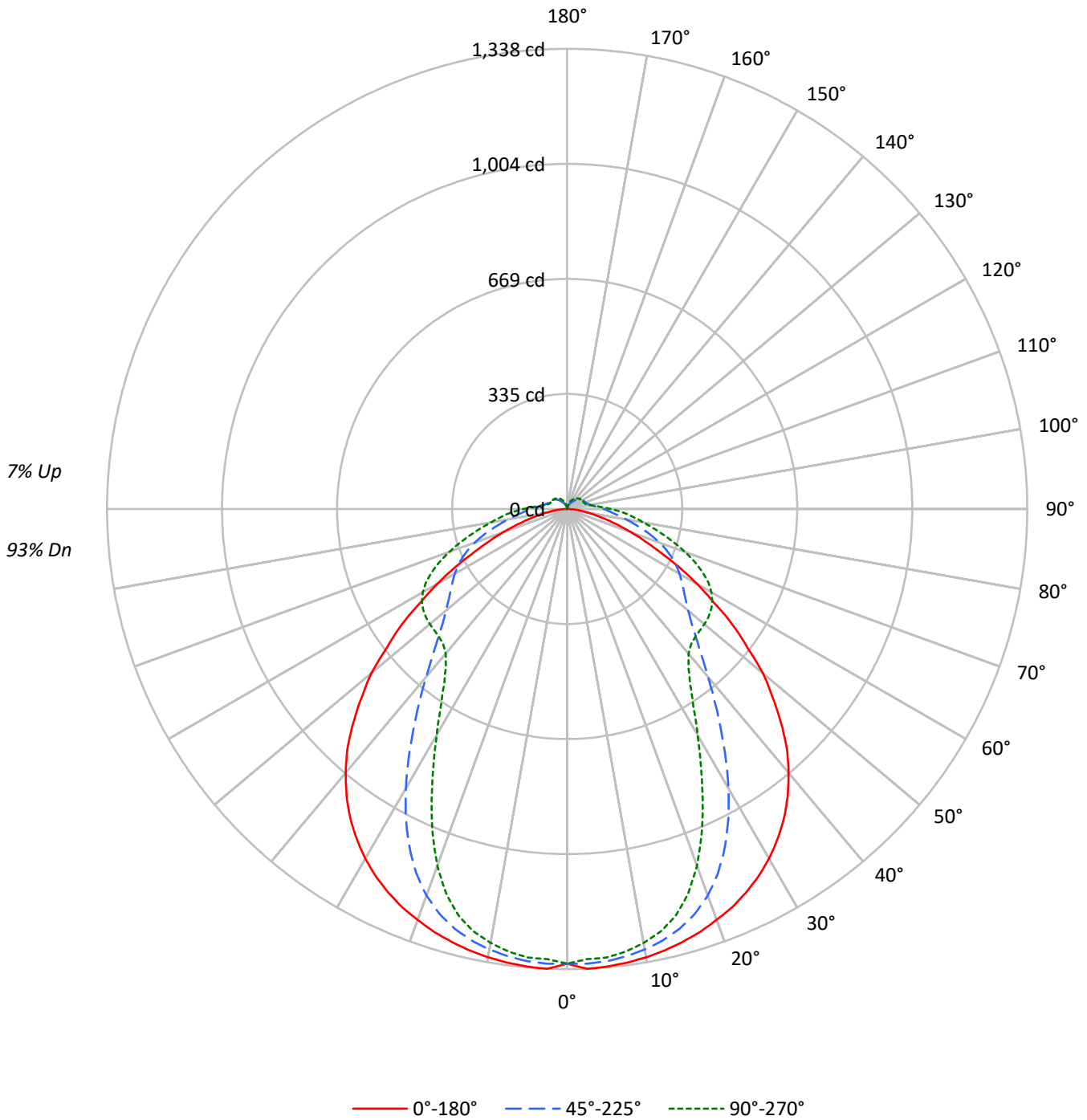
Lumens per Lamp: N/A
Luminaire Lumens: 3324.0 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 28
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°	10681	10681	10681
5°	10804	10445	10282
10°	10801	10157	9859
15°	10804	9816	9297
20°	10809	9311	8349
25°	10813	8531	7070
30°	10762	7507	5815
35°	10609	6387	4873
40°	10298	5409	4406
45°	9752	4701	4372
50°	9009	4298	4525
55°	7933	4131	4684
60°	6694	4072	4748
65°	5383	3981	4601
70°	4326	3776	4243
75°	3260	3417	3765
80°	2407	3069	3349
85°	1612	2894	3081



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.1	3.8
10°-20°	353.4	10.6
20°-30°	494.1	14.9
30°-40°	512.5	15.4
40°-50°	473.5	14.2
50°-60°	422.7	12.7
60°-70°	342.6	10.3
70°-80°	227.9	6.9
80°-90°	130.5	3.9
90°-100°	72.2	2.2
100°-110°	48.9	1.5
110°-120°	40.7	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°	972.6	29.3
0°-40°	1485.1	44.7
0°-60°	2381.3	71.6
0°-90°	3082.2	92.7
90°-120°	161.8	4.9
90°-150°	233.1	7.0
90°-180°	242.0	7.3
0°-180°	3324.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1322	1322	1322	1322	1322	
5°	1336	1313	1320	1311	1309	127
15°	1302	1275	1264	1235	1223	368
25°	1230	1176	1085	971	932	567
35°	1099	978	778	653	624	686
45°	880	697	530	511	526	677
55°	588	445	414	481	511	523
65°	300	269	337	412	434	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	53	53	51	1
125°	1	27	47	49	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°	1321.8	1321.8	1321.8	1321.8	1321.8
2.5°	1338.4	1316.6	1323.5	1317.7	1310.3
5°	1335.5	1313.1	1320.0	1310.8	1309.1
7.5°	1330.4	1308.0	1312.0	1301.1	1298.2
10°	1323.5	1299.9	1300.5	1285.0	1281.0
12.5°	1314.3	1288.4	1285.0	1263.7	1258.0
15°	1302.2	1274.7	1263.7	1235.0	1223.0
17.5°	1289.0	1256.8	1234.4	1190.2	1171.3
20°	1271.2	1235.0	1196.0	1128.7	1103.5
22.5°	1253.4	1208.6	1146.0	1056.4	1022.5
25°	1230.4	1175.9	1085.1	971.4	931.7
27.5°	1204.6	1137.4	1015.0	884.0	841.5
30°	1174.1	1090.8	938.0	798.5	758.2
32.5°	1138.5	1038.6	857.0	721.5	684.1
35°	1098.9	978.2	777.8	653.1	623.8
37.5°	1053.5	912.2	704.2	598.0	579.0
40°	1001.8	840.4	636.5	555.5	549.2
42.5°	946.1	770.3	578.4	527.9	533.6
45°	880.0	697.4	529.6	510.7	526.2
47.5°	810.5	626.1	490.0	500.9	523.3
50°	743.3	560.1	459.0	494.6	521.0
52.5°	660.0	500.9	434.3	488.8	517.6
55°	588.2	444.6	413.6	480.8	510.7
57.5°	505.5	394.1	395.2	470.5	500.3
60°	436.6	348.1	377.4	456.1	484.8
62.5°	366.5	306.7	357.9	437.1	463.0
65°	300.4	268.8	336.6	412.4	434.3
67.5°	245.3	234.4	312.5	382.6	400.9
70°	198.8	202.8	286.1	349.3	364.8
72.5°	152.8	173.5	257.3	313.6	326.8
75°	116.6	145.9	226.9	278.0	289.5
77.5°	86.2	121.8	199.3	245.9	255.6
80°	60.9	100.5	173.5	217.7	225.2
82.5°	40.8	82.7	152.2	192.4	199.3
85°	23.6	67.8	133.8	171.2	175.8
87.5°	9.8	56.3	118.9	149.4	151.6
90°	1.1	47.7	105.7	127.5	126.4
92.5°	1.1	43.1	94.2	106.8	104.0
95°	1.1	40.2	83.9	89.6	86.7
97.5°	1.1	38.5	74.7	77.0	74.1
100°	0.6	37.3	68.4	68.4	65.5
102.5°	0.6	36.2	63.8	62.0	59.7
105°	0.6	35.0	60.3	58.6	55.7
107.5°	0.6	34.5	58.0	56.3	53.4
110°	0.6	33.3	56.3	54.6	52.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.6	32.7	55.1	54.0	51.1
115°	0.6	31.6	53.4	52.8	51.1
117.5°	0.6	30.4	52.3	52.3	50.5
120°	0.6	29.3	50.5	51.7	50.0
122.5°	0.6	28.1	48.8	50.5	48.8
125°	0.6	27.0	47.1	49.4	48.3
127.5°	1.1	25.3	44.8	48.3	47.1
130°	0.6	23.6	42.5	47.1	46.5
132.5°	1.1	21.8	40.2	45.4	45.4
135°	1.1	20.1	37.3	43.7	43.7
137.5°	1.1	17.8	34.5	41.4	41.9
140°	1.1	16.1	31.6	39.1	40.2
142.5°	1.1	14.4	28.7	36.8	38.5
145°	1.1	12.6	25.8	33.9	36.2
147.5°	1.1	11.5	23.0	30.4	33.9
150°	1.1	9.8	20.7	27.6	31.0
152.5°	1.1	8.6	18.4	24.7	28.7
155°	1.1	8.0	16.1	21.3	25.8
157.5°	1.1	6.9	13.8	18.4	23.0
160°	1.1	5.7	11.5	16.1	19.5
162.5°	1.1	5.2	9.8	13.2	17.2
165°	1.1	4.6	8.0	10.3	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)