

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-L840-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-L840-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

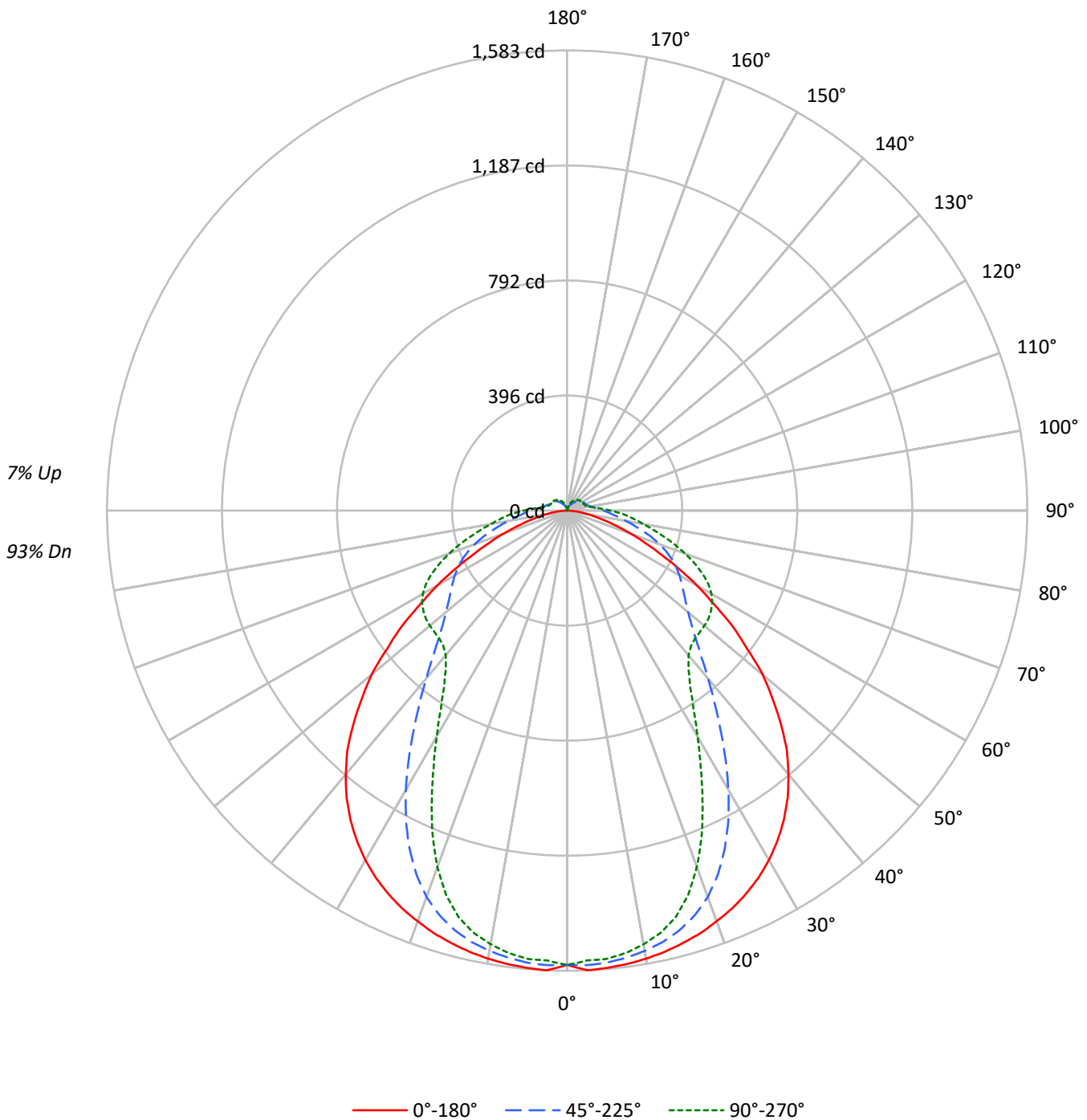
Lumens per Lamp: N/A
Luminaire Lumens: 3931.1 lumens
Efficiency: N/A
Efficacy: 140.4 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 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°	12631	12631	12631
5°	12777	12353	12159
10°	12773	12011	11659
15°	12777	11609	10994
20°	12782	11011	9874
25°	12788	10089	8361
30°	12727	8877	6877
35°	12545	7553	5763
40°	12178	6397	5210
45°	11533	5559	5171
50°	10654	5082	5351
55°	9381	4885	5539
60°	7916	4815	5615
65°	6367	4709	5441
70°	5113	4465	5018
75°	3856	4041	4453
80°	2846	3630	3961
85°	1906	3424	3644



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.9	3.8
10°-20°	418.0	10.6
20°-30°	584.3	14.9
30°-40°	606.1	15.4
40°-50°	559.9	14.2
50°-60°	499.9	12.7
60°-70°	405.1	10.3
70°-80°	269.5	6.9
80°-90°	154.3	3.9
90°-100°	85.4	2.2
100°-110°	57.8	1.5
110°-120°	48.1	1.2
120°-130°	39.1	1.0
130°-140°	28.2	0.7
140°-150°	17.0	0.4
150°-160°	8.2	0.2
160°-170°	2.1	0.1
170°-180°	0.0	0.0
0°-30°	1150.2	29.3
0°-40°	1756.3	44.7
0°-60°	2816.1	71.6
0°-90°	3645.0	92.7
90°-120°	191.3	4.9
90°-150°	275.7	7.0
90°-180°	286.0	7.3
0°-180°	3931.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1563	1563	1563	1563	1563	
5°	1579	1553	1561	1550	1548	150
15°	1540	1507	1494	1460	1446	435
25°	1455	1391	1283	1149	1102	670
35°	1300	1157	920	772	738	811
45°	1041	825	626	604	622	800
55°	696	526	489	569	604	619
65°	355	318	398	488	514	359
75°	138	172	268	329	342	151
85°	28	80	158	202	208	32
90°	1	56	125	151	150	2
95°	1	48	99	106	103	1
105°	1	41	71	69	66	1
115°	1	37	63	62	60	1
125°	1	32	56	58	57	1
135°	1	24	44	52	52	1
145°	1	15	31	40	43	1
155°	1	10	19	25	31	1
165°	1	5	10	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°	1563.1	1563.1	1563.1	1563.1	1563.1
2.5°	1582.8	1557.0	1565.2	1558.4	1549.5
5°	1579.4	1552.9	1561.1	1550.2	1548.2
7.5°	1573.3	1546.8	1551.6	1538.7	1535.3
10°	1565.2	1537.3	1538.0	1519.6	1514.9
12.5°	1554.3	1523.7	1519.6	1494.5	1487.7
15°	1540.0	1507.4	1494.5	1460.5	1446.3
17.5°	1524.4	1486.4	1459.9	1407.6	1385.1
20°	1503.3	1460.5	1414.4	1334.9	1305.0
22.5°	1482.3	1429.3	1355.2	1249.3	1209.2
25°	1455.1	1390.6	1283.2	1148.7	1101.9
27.5°	1424.5	1345.1	1200.4	1045.5	995.2
30°	1388.5	1290.0	1109.3	944.3	896.7
32.5°	1346.4	1228.2	1013.6	853.2	809.1
35°	1299.5	1156.9	919.8	772.4	737.7
37.5°	1245.9	1078.8	832.9	707.2	684.8
40°	1184.7	993.8	752.7	656.9	649.4
42.5°	1118.8	911.0	684.1	624.3	631.1
45°	1040.7	824.7	626.3	603.9	622.3
47.5°	958.5	740.5	579.5	592.4	618.9
50°	879.0	662.3	542.8	584.9	616.1
52.5°	780.5	592.4	513.6	578.1	612.1
55°	695.6	525.8	489.1	568.6	603.9
57.5°	597.8	466.0	467.4	556.4	591.7
60°	516.3	411.7	446.3	539.4	573.3
62.5°	433.4	362.8	423.2	517.0	547.5
65°	355.3	317.9	398.1	487.8	513.6
67.5°	290.1	277.2	369.6	452.4	474.2
70°	235.0	239.8	338.3	413.0	431.4
72.5°	180.7	205.2	304.3	370.9	386.5
75°	137.9	172.5	268.3	328.8	342.4
77.5°	101.9	144.0	235.7	290.8	302.3
80°	72.0	118.9	205.2	257.5	266.3
82.5°	48.2	97.8	180.0	227.6	235.7
85°	27.9	80.2	158.3	202.4	207.9
87.5°	11.5	66.6	140.6	176.6	179.3
90°	1.4	56.4	125.0	150.8	149.5
92.5°	1.4	50.9	111.4	126.4	123.0
95°	1.4	47.6	99.2	106.0	102.6
97.5°	1.4	45.5	88.3	91.0	87.6
100°	0.7	44.2	80.8	80.8	77.4
102.5°	0.7	42.8	75.4	73.4	70.6
105°	0.7	41.4	71.3	69.3	65.9
107.5°	0.7	40.8	68.6	66.6	63.2
110°	0.7	39.4	66.6	64.5	61.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.7	38.7	65.2	63.9	60.5
115°	0.7	37.4	63.2	62.5	60.5
117.5°	0.7	36.0	61.8	61.8	59.8
120°	0.7	34.6	59.8	61.1	59.1
122.5°	0.7	33.3	57.7	59.8	57.7
125°	0.7	31.9	55.7	58.4	57.1
127.5°	1.4	29.9	53.0	57.1	55.7
130°	0.7	27.9	50.3	55.7	55.0
132.5°	1.4	25.8	47.6	53.7	53.7
135°	1.4	23.8	44.2	51.6	51.6
137.5°	1.4	21.1	40.8	48.9	49.6
140°	1.4	19.0	37.4	46.2	47.6
142.5°	1.4	17.0	34.0	43.5	45.5
145°	1.4	14.9	30.6	40.1	42.8
147.5°	1.4	13.6	27.2	36.0	40.1
150°	1.4	11.5	24.5	32.6	36.7
152.5°	1.4	10.2	21.7	29.2	34.0
155°	1.4	9.5	19.0	25.1	30.6
157.5°	1.4	8.2	16.3	21.7	27.2
160°	1.4	6.8	13.6	19.0	23.1
162.5°	1.4	6.1	11.5	15.6	20.4
165°	1.4	5.4	9.5	12.2	16.3
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)