

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-SLC-UNV-L850-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 (P27404)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-37SL-SLC-UNV-L850-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

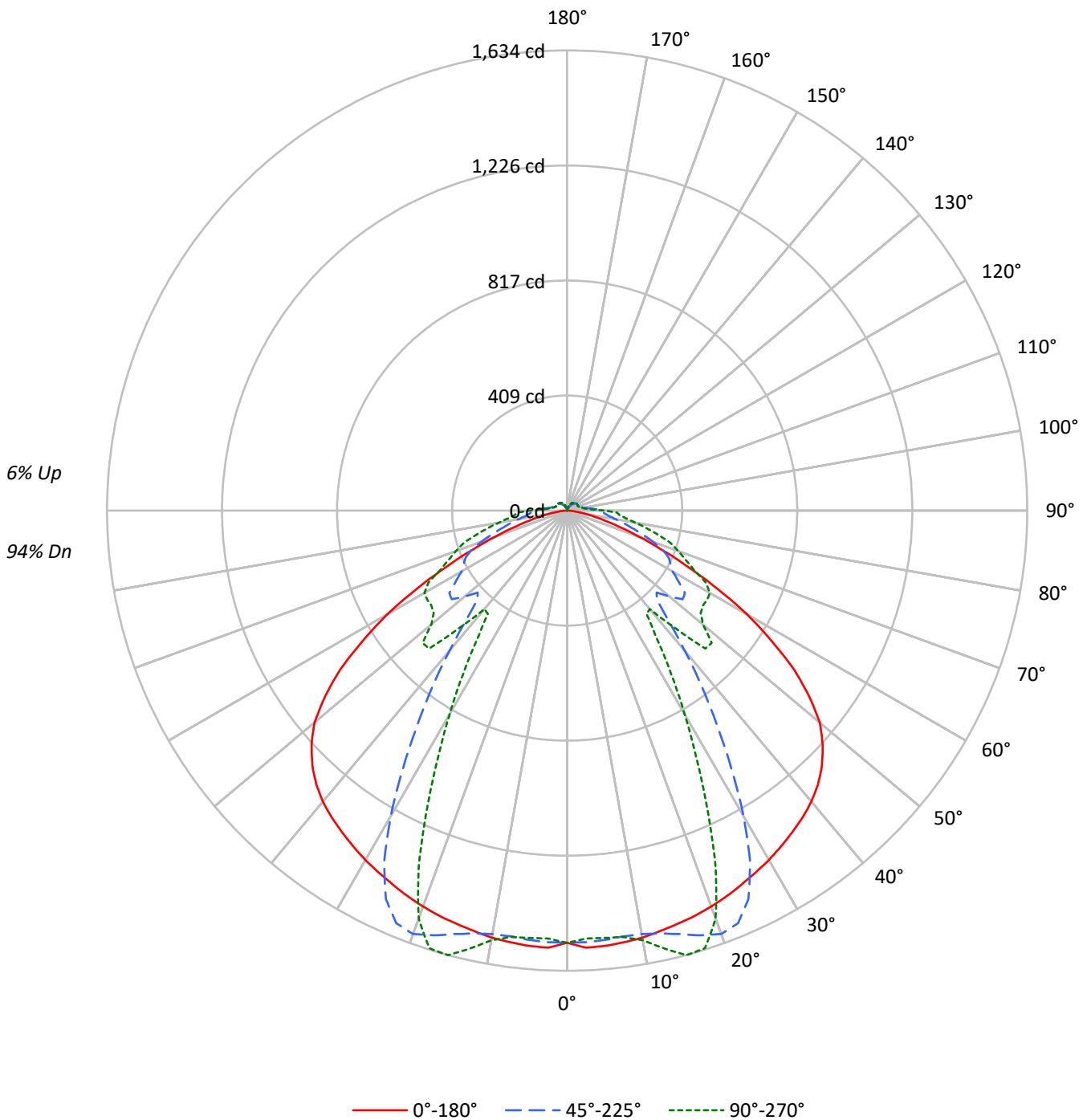
Lumens per Lamp: N/A
Luminaire Lumens: 3942.1 lumens
Efficiency: N/A
Efficacy: 140.8 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	107	102	98	94	104	99	95	92	94	91	88	89	87	84	85	83	81	78
2	98	90	83	77	95	87	81	76	83	78	73	79	74	71	75	71	68	66
3	89	79	71	65	87	77	70	64	73	67	62	70	65	60	67	62	59	56
4	82	71	62	56	80	69	61	55	66	59	53	63	57	52	60	55	51	49
5	76	63	55	48	74	62	54	48	59	52	47	57	51	46	54	49	45	43
6	70	58	49	43	68	56	48	42	54	47	41	52	45	41	50	44	40	38
7	66	52	44	38	64	51	43	38	49	42	37	47	41	36	46	40	36	34
8	61	48	40	34	59	47	39	34	45	38	33	44	37	33	42	37	32	30
9	57	44	36	31	56	44	36	31	42	35	30	41	34	30	39	34	29	28
10	54	41	33	28	52	40	33	28	39	32	28	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12401	12401	12401
5°	12552	12111	11962
10°	12567	11926	11920
15°	12603	12094	12424
20°	12720	12454	11662
25°	12878	11970	8980
30°	13132	10025	6387
35°	13457	7593	4325
40°	13868	5519	3662
45°	14183	4004	5757
50°	14203	4434	5464
55°	13275	5102	5396
60°	11311	4668	5735
65°	8509	4709	5246
70°	5971	4286	4883
75°	3912	3591	4381
80°	2498	3076	3647
85°	1346	2924	3274



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.0	3.7
10°-20°	440.9	11.2
20°-30°	640.5	16.2
30°-40°	611.9	15.5
40°-50°	559.8	14.2
50°-60°	516.8	13.1
60°-70°	410.5	10.4
70°-80°	253.4	6.4
80°-90°	138.0	3.5
90°-100°	69.7	1.8
100°-110°	43.8	1.1
110°-120°	37.1	0.9
120°-130°	30.3	0.8
130°-140°	21.8	0.6
140°-150°	13.4	0.3
150°-160°	6.4	0.2
160°-170°	1.7	0.0
170°-180°	0.0	0.0
0°-30°	1227.4	31.1
0°-40°	1839.3	46.7
0°-60°	2915.9	74.0
0°-90°	3717.8	94.3
90°-120°	150.7	3.8
90°-150°	216.2	5.5
90°-180°	224.0	5.7
0°-180°	3942.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1535	1535	1535	1535	1535	
5°	1552	1528	1530	1522	1523	148
15°	1519	1499	1557	1615	1634	430
25°	1465	1494	1522	1289	1183	677
35°	1394	1372	925	636	554	874
45°	1280	893	451	575	693	984
55°	984	458	511	550	588	867
65°	475	297	398	484	495	480
75°	140	158	238	316	337	159
85°	20	67	135	184	187	25
90°	1	50	121	143	132	1
95°	0	47	84	74	70	0
105°	0	42	52	47	46	0
115°	0	35	50	44	42	0
125°	1	28	44	43	41	1
135°	1	20	35	39	37	1
145°	1	12	24	31	33	0
155°	1	8	15	20	24	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°	1534.6	1534.6	1534.6	1534.6	1534.6
2.5°	1553.6	1531.2	1533.9	1529.1	1521.0
5°	1551.6	1527.8	1530.5	1522.4	1523.0
7.5°	1546.1	1521.7	1525.1	1523.7	1527.1
10°	1540.0	1514.2	1527.1	1538.7	1548.8
12.5°	1529.1	1506.1	1537.3	1571.3	1592.3
15°	1519.0	1498.6	1557.0	1614.7	1634.4
17.5°	1508.8	1495.9	1581.5	1631.7	1629.0
20°	1495.9	1494.5	1599.8	1582.8	1541.4
22.5°	1481.6	1495.2	1585.5	1461.2	1379.7
25°	1465.3	1493.8	1522.4	1288.7	1183.4
27.5°	1449.0	1487.7	1407.6	1099.8	995.9
30°	1432.7	1471.4	1252.7	927.3	832.8
32.5°	1413.7	1436.1	1084.2	774.4	687.5
35°	1394.0	1371.5	924.6	636.5	553.6
37.5°	1373.6	1278.5	781.2	515.6	462.6
40°	1349.1	1161.6	649.4	442.2	456.5
42.5°	1318.6	1029.8	533.3	464.0	563.2
45°	1279.8	892.6	451.1	575.4	692.9
47.5°	1230.9	760.8	430.7	658.9	695.6
50°	1171.8	639.9	473.5	631.8	629.0
52.5°	1082.2	539.4	517.0	576.1	597.8
55°	984.3	457.9	510.8	549.6	588.3
57.5°	860.7	402.8	468.7	544.1	589.0
60°	737.7	366.2	432.7	543.5	585.6
62.5°	601.9	332.9	414.4	530.5	555.7
65°	474.8	296.9	398.1	483.7	495.2
67.5°	364.1	260.2	369.5	431.4	454.5
70°	274.4	224.2	324.7	391.3	419.8
72.5°	197.7	190.2	278.5	356.0	385.9
75°	139.9	158.3	238.4	315.9	336.9
77.5°	96.5	129.1	204.5	271.7	288.7
80°	63.2	103.3	173.9	233.7	245.2
82.5°	38.0	82.9	150.8	204.5	210.6
85°	19.7	67.3	135.2	184.1	186.8
87.5°	6.1	56.4	126.4	174.6	178.0
90°	0.7	50.3	120.9	143.3	132.5
92.5°	0.0	47.6	104.6	97.8	87.6
95°	0.0	46.9	83.6	74.0	70.0
97.5°	0.0	45.5	68.6	61.8	59.8
100°	0.0	44.2	59.1	54.3	53.7
102.5°	0.0	43.5	53.7	49.6	48.9
105°	0.0	42.1	51.6	46.9	46.2
107.5°	0.0	40.1	50.3	45.5	44.2
110°	0.0	38.0	50.3	44.8	42.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	36.0	50.3	44.2	42.1
115°	0.0	34.6	49.6	44.2	42.1
117.5°	0.7	33.3	48.9	44.2	42.1
120°	0.0	31.9	47.6	44.2	41.4
122.5°	0.7	29.9	46.2	43.5	41.4
125°	0.7	27.9	44.2	42.8	40.8
127.5°	0.7	25.8	42.1	41.4	39.4
130°	0.7	23.8	40.1	40.8	38.7
132.5°	0.7	21.7	37.4	39.4	38.0
135°	0.7	19.7	35.3	38.7	37.4
137.5°	0.7	17.7	32.6	36.7	36.7
140°	0.7	15.6	29.9	35.3	36.0
142.5°	0.7	14.3	27.2	34.0	34.6
145°	0.7	12.2	24.5	31.2	33.3
147.5°	0.7	10.9	21.7	28.5	31.2
150°	0.7	9.5	19.0	25.8	28.5
152.5°	0.7	8.2	17.0	22.4	26.5
155°	1.4	7.5	14.9	19.7	23.8
157.5°	1.4	6.1	12.2	17.0	20.4
160°	1.4	5.4	10.9	14.3	18.3
162.5°	1.4	4.8	8.8	12.2	15.6
165°	1.4	4.1	7.5	9.5	12.9
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)