

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-L830-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-L830-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

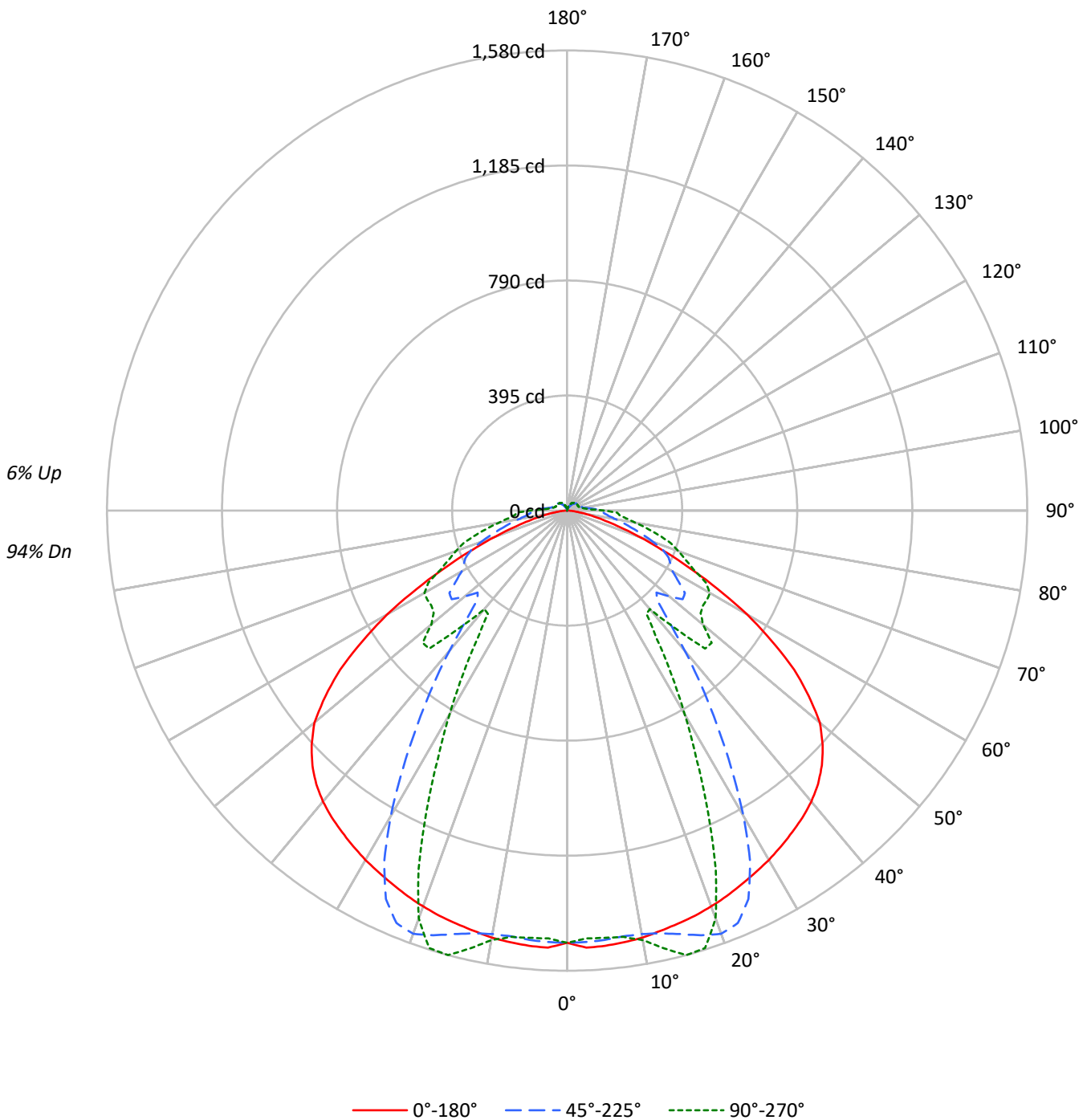
Lumens per Lamp: N/A
Luminaire Lumens: 3811.0 lumens
Efficiency: N/A
Efficacy: 136.1 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 28
Input Voltage (V): NR
Input Current (A_{in}): 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°	11989	11989	11989
5°	12135	11708	11564
10°	12150	11530	11524
15°	12184	11693	12011
20°	12297	12040	11275
25°	12450	11572	8681
30°	12696	9691	6175
35°	13010	7340	4181
40°	13408	5335	3540
45°	13712	3871	5566
50°	13731	4287	5282
55°	12834	4933	5216
60°	10935	4513	5544
65°	8227	4553	5072
70°	5773	4143	4721
75°	3783	3472	4236
80°	2415	2974	3526
85°	1298	2827	3165



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.1	3.7
10°-20°	426.2	11.2
20°-30°	619.2	16.2
30°-40°	591.6	15.5
40°-50°	541.2	14.2
50°-60°	499.7	13.1
60°-70°	396.9	10.4
70°-80°	245.0	6.4
80°-90°	133.4	3.5
90°-100°	67.4	1.8
100°-110°	42.4	1.1
110°-120°	35.9	0.9
120°-130°	29.3	0.8
130°-140°	21.0	0.6
140°-150°	13.0	0.3
150°-160°	6.2	0.2
160°-170°	1.6	0.0
170°-180°	0.0	0.0
0°-30°	1186.6	31.1
0°-40°	1778.2	46.7
0°-60°	2819.0	74.0
0°-90°	3594.3	94.3
90°-120°	145.7	3.8
90°-150°	209.0	5.5
90°-180°	217.0	5.7
0°-180°	3811.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1484	1484	1484	1484	1484	
5°	1500	1477	1480	1472	1472	143
15°	1468	1449	1505	1561	1580	416
25°	1417	1444	1472	1246	1144	655
35°	1348	1326	894	615	535	845
45°	1237	863	436	556	670	951
55°	952	443	494	531	569	838
65°	459	287	385	468	479	464
75°	135	153	230	305	326	153
85°	19	65	131	178	181	24
90°	1	49	117	139	128	1
95°	0	45	81	72	68	0
105°	0	41	50	45	45	0
115°	0	34	48	43	41	0
125°	1	27	43	41	39	1
135°	1	19	34	37	36	1
145°	1	12	24	30	32	0
155°	1	7	14	19	23	0
165°	1	4	7	9	12	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°	1483.6	1483.6	1483.6	1483.6	1483.6
2.5°	1502.0	1480.3	1482.9	1478.3	1470.5
5°	1500.0	1477.0	1479.6	1471.8	1472.4
7.5°	1494.8	1471.1	1474.4	1473.1	1476.4
10°	1488.8	1463.9	1476.4	1487.5	1497.4
12.5°	1478.3	1456.0	1486.2	1519.1	1539.4
15°	1468.5	1448.8	1505.3	1561.1	1580.1
17.5°	1458.6	1446.2	1528.9	1577.5	1574.9
20°	1446.2	1444.8	1546.6	1530.2	1490.2
22.5°	1432.4	1445.5	1532.8	1412.7	1333.8
25°	1416.6	1444.2	1471.8	1245.8	1144.0
27.5°	1400.8	1438.3	1360.8	1063.3	962.8
30°	1385.1	1422.5	1211.0	896.5	805.2
32.5°	1366.7	1388.4	1048.2	748.7	664.6
35°	1347.6	1326.0	893.8	615.4	535.2
37.5°	1327.9	1236.0	755.3	498.5	447.2
40°	1304.3	1123.0	627.8	427.5	441.3
42.5°	1274.7	995.6	515.5	448.6	544.4
45°	1237.3	863.0	436.1	556.3	669.9
47.5°	1190.0	735.6	416.4	637.0	672.5
50°	1132.9	618.7	457.8	610.8	608.1
52.5°	1046.2	521.5	499.8	556.9	577.9
55°	951.6	442.6	493.9	531.3	568.7
57.5°	832.1	389.4	453.2	526.1	569.4
60°	713.2	354.0	418.3	525.4	566.1
62.5°	581.9	321.8	400.6	512.9	537.2
65°	459.1	287.0	384.9	467.6	478.8
67.5°	352.0	251.5	357.3	417.0	439.4
70°	265.3	216.7	313.9	378.3	405.9
72.5°	191.1	183.9	269.3	344.1	373.0
75°	135.3	153.0	230.5	305.4	325.7
77.5°	93.3	124.8	197.7	262.7	279.1
80°	61.1	99.8	168.1	225.9	237.1
82.5°	36.8	80.1	145.8	197.7	203.6
85°	19.0	65.0	130.7	178.0	180.6
87.5°	5.9	54.5	122.2	168.8	172.1
90°	0.7	48.6	116.9	138.6	128.1
92.5°	0.0	46.0	101.1	94.6	84.7
95°	0.0	45.3	80.8	71.6	67.6
97.5°	0.0	44.0	66.3	59.8	57.8
100°	0.0	42.7	57.1	52.5	51.9
102.5°	0.0	42.0	51.9	47.9	47.3
105°	0.0	40.7	49.9	45.3	44.7
107.5°	0.0	38.7	48.6	44.0	42.7
110°	0.0	36.8	48.6	43.3	41.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	34.8	48.6	42.7	40.7
115°	0.0	33.5	47.9	42.7	40.7
117.5°	0.7	32.2	47.3	42.7	40.7
120°	0.0	30.9	46.0	42.7	40.1
122.5°	0.7	28.9	44.7	42.0	40.1
125°	0.7	26.9	42.7	41.4	39.4
127.5°	0.7	25.0	40.7	40.1	38.1
130°	0.7	23.0	38.7	39.4	37.4
132.5°	0.7	21.0	36.1	38.1	36.8
135°	0.7	19.0	34.2	37.4	36.1
137.5°	0.7	17.1	31.5	35.5	35.5
140°	0.7	15.1	28.9	34.2	34.8
142.5°	0.7	13.8	26.3	32.8	33.5
145°	0.7	11.8	23.6	30.2	32.2
147.5°	0.7	10.5	21.0	27.6	30.2
150°	0.7	9.2	18.4	25.0	27.6
152.5°	0.7	7.9	16.4	21.7	25.6
155°	1.3	7.2	14.4	19.0	23.0
157.5°	1.3	5.9	11.8	16.4	19.7
160°	1.3	5.3	10.5	13.8	17.7
162.5°	1.3	4.6	8.5	11.8	15.1
165°	1.3	3.9	7.2	9.2	12.5
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)