

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-L835-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-L835-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
CLEAR SQUARE LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

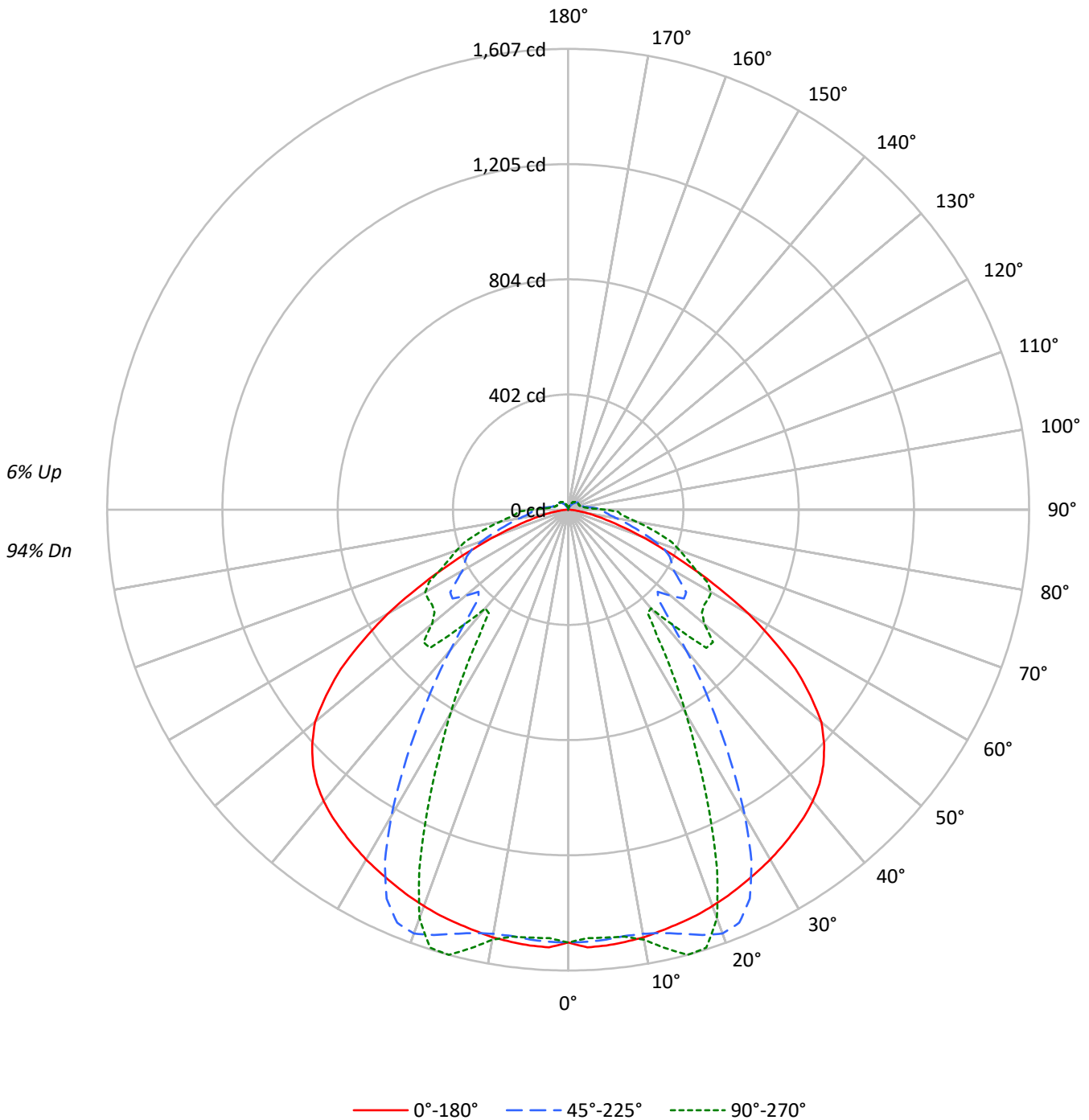
Lumens per Lamp: N/A  
Luminaire Lumens: 3876.0 lumens  
Efficiency: N/A  
Efficacy: 138.4 lumens/watt  
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	12193	12193	12193
5°	12342	11908	11761
10°	12357	11726	11721
15°	12391	11891	12216
20°	12506	12246	11467
25°	12662	11769	8830
30°	12912	9857	6280
35°	13232	7465	4253
40°	13636	5427	3601
45°	13946	3937	5661
50°	13965	4360	5372
55°	13054	5017	5305
60°	11122	4591	5639
65°	8367	4630	5158
70°	5873	4215	4801
75°	3848	3530	4308
80°	2455	3025	3586
85°	1325	2875	3219



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.5	3.7
10°-20°	433.5	11.2
20°-30°	629.8	16.2
30°-40°	601.7	15.5
40°-50°	550.4	14.2
50°-60°	508.2	13.1
60°-70°	403.7	10.4
70°-80°	249.1	6.4
80°-90°	135.7	3.5
90°-100°	68.6	1.8
100°-110°	43.1	1.1
110°-120°	36.5	0.9
120°-130°	29.8	0.8
130°-140°	21.4	0.6
140°-150°	13.2	0.3
150°-160°	6.3	0.2
160°-170°	1.6	0.0
170°-180°	0.0	0.0
0°-30°	1206.8	31.1
0°-40°	1808.5	46.7
0°-60°	2867.1	74.0
0°-90°	3655.6	94.3
90°-120°	148.2	3.8
90°-150°	212.6	5.5
90°-180°	220.0	5.7
0°-180°	3876.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1509	1509	1509	1509	1509	
5°	1526	1502	1505	1497	1498	145
15°	1494	1474	1531	1588	1607	423
25°	1441	1469	1497	1267	1164	666
35°	1371	1349	909	626	544	859
45°	1258	878	444	566	681	967
55°	968	450	502	540	578	852
65°	467	292	391	476	487	472
75°	138	156	234	311	331	156
85°	19	66	133	181	184	25
90°	1	49	119	141	130	1
95°	0	46	82	73	69	0
105°	0	41	51	46	45	0
115°	0	34	49	43	41	0
125°	1	27	43	42	40	1
135°	1	19	35	38	37	1
145°	1	12	24	31	33	0
155°	1	7	15	19	23	0
165°	1	4	7	9	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°	1508.9	1508.9	1508.9	1508.9	1508.9
2.5°	1527.6	1505.6	1508.2	1503.5	1495.5
5°	1525.6	1502.2	1504.9	1496.9	1497.5
7.5°	1520.2	1496.2	1499.5	1498.2	1501.5
10°	1514.2	1488.9	1501.5	1512.9	1522.9
12.5°	1503.5	1480.8	1511.6	1545.0	1565.7
15°	1493.5	1473.5	1530.9	1587.7	1607.1
17.5°	1483.5	1470.8	1555.0	1604.4	1601.7
20°	1470.8	1469.5	1573.0	1556.3	1515.6
22.5°	1456.8	1470.1	1559.0	1436.8	1356.6
25°	1440.8	1468.8	1496.9	1267.1	1163.6
27.5°	1424.7	1462.8	1384.0	1081.4	979.2
30°	1408.7	1446.8	1231.7	911.7	818.9
32.5°	1390.0	1412.0	1066.0	761.5	676.0
35°	1370.6	1348.6	909.1	625.9	544.4
37.5°	1350.6	1257.1	768.1	507.0	454.9
40°	1326.5	1142.2	638.6	434.8	448.9
42.5°	1296.5	1012.6	524.3	456.2	553.7
45°	1258.4	877.7	443.5	565.8	681.3
47.5°	1210.3	748.1	423.5	647.9	684.0
50°	1152.2	629.2	465.6	621.2	618.5
52.5°	1064.0	530.3	508.3	566.4	587.8
55°	967.9	450.2	502.3	540.4	578.4
57.5°	846.3	396.1	460.9	535.0	579.1
60°	725.4	360.0	425.5	534.4	575.8
62.5°	591.8	327.3	407.4	521.7	546.4
65°	466.9	291.9	391.4	475.6	486.9
67.5°	358.0	255.8	363.4	424.1	446.9
70°	269.9	220.4	319.3	384.7	412.8
72.5°	194.4	187.0	273.9	350.0	379.4
75°	137.6	155.6	234.4	310.6	331.3
77.5°	94.8	126.9	201.1	267.2	283.9
80°	62.1	101.5	171.0	229.8	241.1
82.5°	37.4	81.5	148.3	201.1	207.1
85°	19.4	66.1	132.9	181.0	183.7
87.5°	6.0	55.4	124.2	171.7	175.0
90°	0.7	49.4	118.9	140.9	130.2
92.5°	0.0	46.8	102.9	96.2	86.2
95°	0.0	46.1	82.2	72.8	68.8
97.5°	0.0	44.8	67.5	60.8	58.8
100°	0.0	43.4	58.1	53.4	52.8
102.5°	0.0	42.7	52.8	48.8	48.1
105°	0.0	41.4	50.8	46.1	45.4
107.5°	0.0	39.4	49.4	44.8	43.4
110°	0.0	37.4	49.4	44.1	42.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	35.4	49.4	43.4	41.4
115°	0.0	34.1	48.8	43.4	41.4
117.5°	0.7	32.7	48.1	43.4	41.4
120°	0.0	31.4	46.8	43.4	40.7
122.5°	0.7	29.4	45.4	42.7	40.7
125°	0.7	27.4	43.4	42.1	40.1
127.5°	0.7	25.4	41.4	40.7	38.7
130°	0.7	23.4	39.4	40.1	38.1
132.5°	0.7	21.4	36.7	38.7	37.4
135°	0.7	19.4	34.7	38.1	36.7
137.5°	0.7	17.4	32.1	36.1	36.1
140°	0.7	15.4	29.4	34.7	35.4
142.5°	0.7	14.0	26.7	33.4	34.1
145°	0.7	12.0	24.0	30.7	32.7
147.5°	0.7	10.7	21.4	28.1	30.7
150°	0.7	9.4	18.7	25.4	28.1
152.5°	0.7	8.0	16.7	22.0	26.0
155°	1.3	7.3	14.7	19.4	23.4
157.5°	1.3	6.0	12.0	16.7	20.0
160°	1.3	5.3	10.7	14.0	18.0
162.5°	1.3	4.7	8.7	12.0	15.4
165°	1.3	4.0	7.3	9.4	12.7
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)