

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

**Summary**

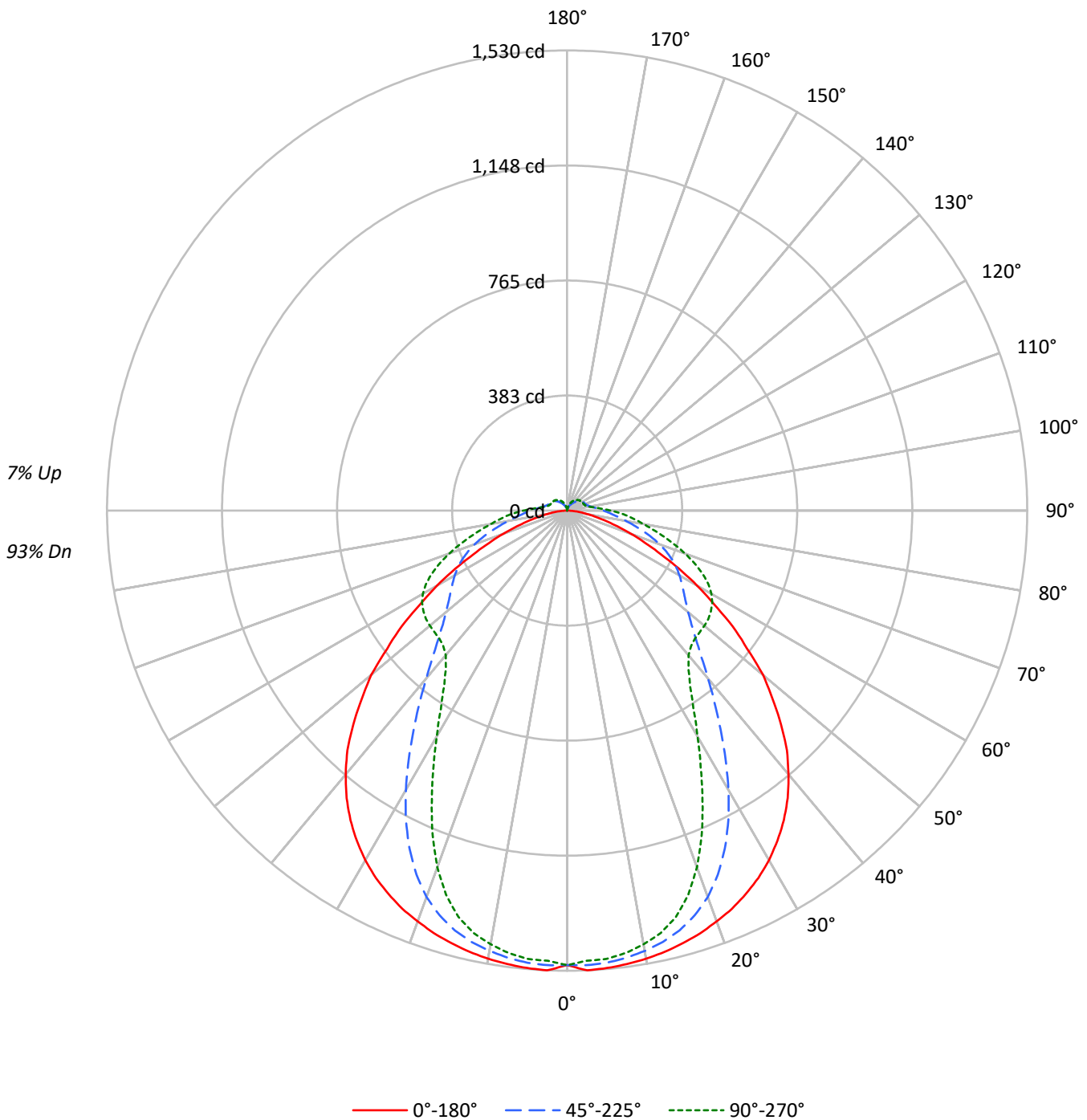
Lumens per Lamp: N/A  
Luminaire Lumens: 3800.0 lumens  
Efficiency: N/A  
Efficacy: 135.7 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

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°	12210	12210	12210
5°	12351	11941	11754
10°	12347	11611	11270
15°	12351	11222	10628
20°	12356	10644	9544
25°	12362	9753	8082
30°	12303	8582	6648
35°	12127	7302	5571
40°	11773	6184	5036
45°	11148	5375	4998
50°	10300	4913	5173
55°	9069	4722	5355
60°	7652	4654	5428
65°	6154	4551	5260
70°	4944	4316	4850
75°	3727	3907	4304
80°	2751	3508	3828
85°	1838	3310	3521



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.0	3.8
10°-20°	404.1	10.6
20°-30°	564.8	14.9
30°-40°	585.9	15.4
40°-50°	541.3	14.2
50°-60°	483.2	12.7
60°-70°	391.6	10.3
70°-80°	260.5	6.9
80°-90°	149.2	3.9
90°-100°	82.5	2.2
100°-110°	55.9	1.5
110°-120°	46.5	1.2
120°-130°	37.8	1.0
130°-140°	27.3	0.7
140°-150°	16.4	0.4
150°-160°	7.9	0.2
160°-170°	2.0	0.1
170°-180°	0.0	0.0
0°-30°	1111.9	29.3
0°-40°	1697.7	44.7
0°-60°	2722.3	71.6
0°-90°	3523.5	92.7
90°-120°	185.0	4.9
90°-150°	266.5	7.0
90°-180°	276.0	7.3
0°-180°	3800.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1511	1511	1511	1511	1511	
5°	1527	1501	1509	1499	1497	145
15°	1489	1457	1445	1412	1398	421
25°	1407	1344	1240	1110	1065	648
35°	1256	1118	889	747	713	784
45°	1006	797	606	584	602	774
55°	672	508	473	550	584	598
65°	343	307	385	472	496	347
75°	133	167	259	318	331	146
85°	27	78	153	196	201	31
90°	1	54	121	146	144	2
95°	1	46	96	102	99	1
105°	1	40	69	67	64	1
115°	1	36	61	60	58	1
125°	1	31	54	56	55	1
135°	1	23	43	50	50	1
145°	1	14	30	39	41	1
155°	1	9	18	24	30	1
165°	1	5	9	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°	1511.0	1511.0	1511.0	1511.0	1511.0
2.5°	1530.1	1505.1	1513.0	1506.4	1497.9
5°	1526.8	1501.2	1509.1	1498.6	1496.6
7.5°	1520.9	1495.3	1499.9	1487.4	1484.1
10°	1513.0	1486.1	1486.7	1469.0	1464.4
12.5°	1502.5	1472.9	1469.0	1444.7	1438.1
15°	1488.7	1457.2	1444.7	1411.9	1398.1
17.5°	1473.6	1436.8	1411.2	1360.7	1339.0
20°	1453.2	1411.9	1367.2	1290.4	1261.5
22.5°	1432.9	1381.7	1310.1	1207.6	1168.9
25°	1406.6	1344.2	1240.5	1110.5	1065.1
27.5°	1377.1	1300.2	1160.4	1010.6	962.0
30°	1342.3	1247.0	1072.4	912.8	866.8
32.5°	1301.5	1187.3	979.8	824.8	782.1
35°	1256.2	1118.3	889.2	746.7	713.2
37.5°	1204.4	1042.8	805.1	683.6	661.9
40°	1145.3	960.7	727.6	635.0	627.8
42.5°	1081.6	880.6	661.3	603.5	610.1
45°	1006.0	797.2	605.5	583.8	601.5
47.5°	926.6	715.8	560.2	572.6	598.2
50°	849.8	640.3	524.7	565.4	595.6
52.5°	754.5	572.6	496.5	558.8	591.7
55°	672.4	508.3	472.8	549.6	583.8
57.5°	577.9	450.5	451.8	537.8	572.0
60°	499.1	398.0	431.4	521.4	554.2
62.5°	419.0	350.7	409.1	499.7	529.3
65°	343.4	307.3	384.8	471.5	496.5
67.5°	280.4	267.9	357.2	437.4	458.4
70°	227.2	231.8	327.0	399.3	417.0
72.5°	174.7	198.3	294.2	358.5	373.7
75°	133.3	166.8	259.4	317.8	331.0
77.5°	98.5	139.2	227.9	281.1	292.2
80°	69.6	114.9	198.3	248.9	257.4
82.5°	46.6	94.6	174.0	220.0	227.9
85°	26.9	77.5	153.0	195.7	200.9
87.5°	11.2	64.4	135.9	170.7	173.4
90°	1.3	54.5	120.8	145.8	144.5
92.5°	1.3	49.3	107.7	122.1	118.9
95°	1.3	46.0	95.9	102.4	99.2
97.5°	1.3	44.0	85.4	88.0	84.7
100°	0.7	42.7	78.1	78.1	74.9
102.5°	0.7	41.4	72.9	70.9	68.3
105°	0.7	40.1	69.0	67.0	63.7
107.5°	0.7	39.4	66.3	64.4	61.1
110°	0.7	38.1	64.4	62.4	59.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.7	37.4	63.0	61.7	58.4
115°	0.7	36.1	61.1	60.4	58.4
117.5°	0.7	34.8	59.8	59.8	57.8
120°	0.7	33.5	57.8	59.1	57.1
122.5°	0.7	32.2	55.8	57.8	55.8
125°	0.7	30.9	53.8	56.5	55.2
127.5°	1.3	28.9	51.2	55.2	53.8
130°	0.7	26.9	48.6	53.8	53.2
132.5°	1.3	25.0	46.0	51.9	51.9
135°	1.3	23.0	42.7	49.9	49.9
137.5°	1.3	20.4	39.4	47.3	47.9
140°	1.3	18.4	36.1	44.7	46.0
142.5°	1.3	16.4	32.8	42.0	44.0
145°	1.3	14.4	29.6	38.7	41.4
147.5°	1.3	13.1	26.3	34.8	38.7
150°	1.3	11.2	23.6	31.5	35.5
152.5°	1.3	9.9	21.0	28.2	32.8
155°	1.3	9.2	18.4	24.3	29.6
157.5°	1.3	7.9	15.8	21.0	26.3
160°	1.3	6.6	13.1	18.4	22.3
162.5°	1.3	5.9	11.2	15.1	19.7
165°	1.3	5.3	9.2	11.8	15.8
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)