

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

Summary

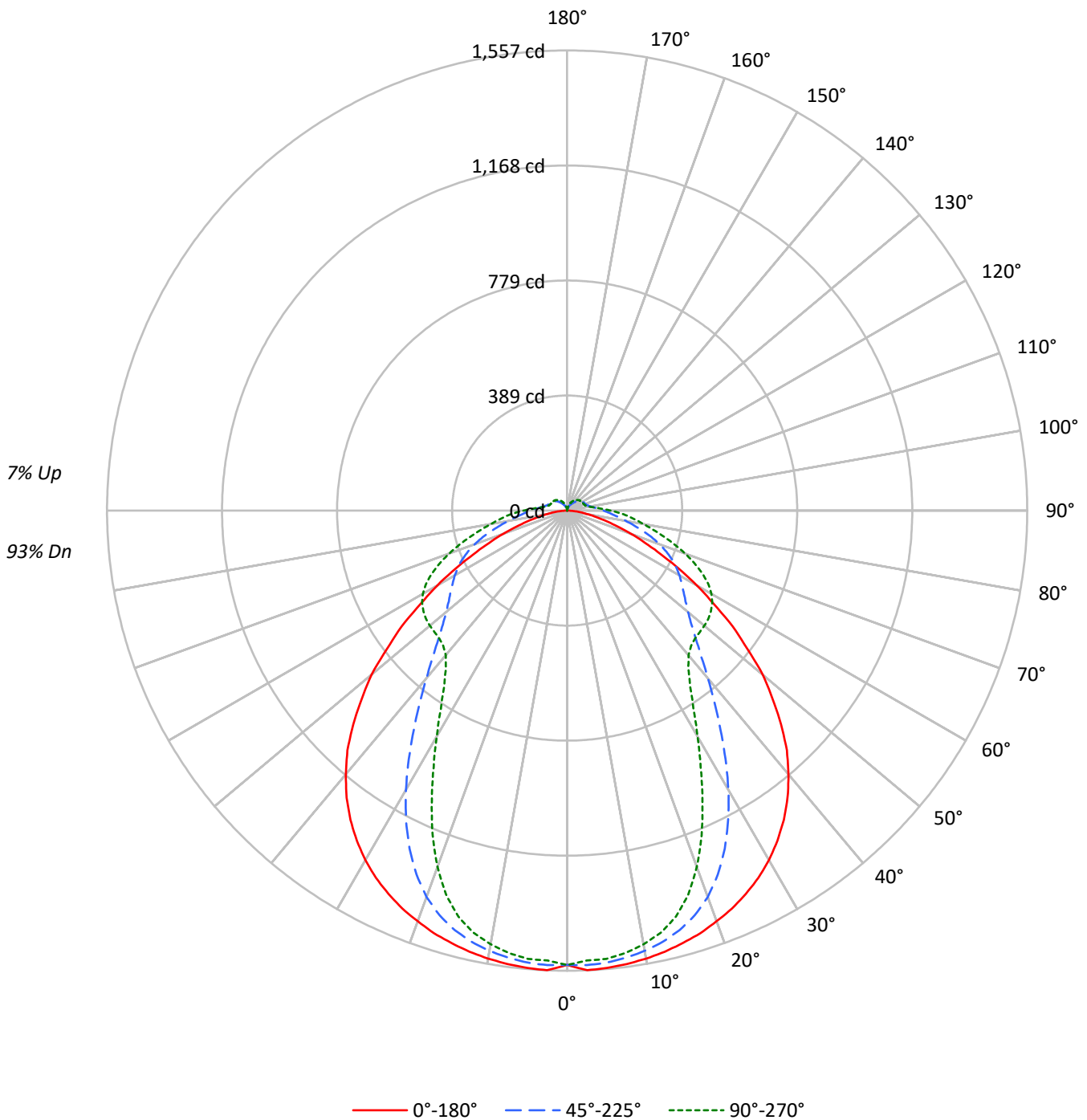
Lumens per Lamp: N/A
Luminaire Lumens: 3866.0 lumens
Efficiency: N/A
Efficacy: 138.1 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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°	12423	12423	12423
5°	12566	12149	11958
10°	12562	11813	11466
15°	12566	11417	10812
20°	12572	10829	9710
25°	12576	9922	8223
30°	12517	8731	6763
35°	12339	7428	5667
40°	11977	6291	5124
45°	11342	5468	5085
50°	10478	4998	5264
55°	9226	4804	5447
60°	7784	4735	5523
65°	6261	4631	5351
70°	5031	4392	4934
75°	3792	3975	4379
80°	2799	3570	3895
85°	1872	3368	3582



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.4	3.8
10°-20°	411.1	10.6
20°-30°	574.6	14.9
30°-40°	596.1	15.4
40°-50°	550.7	14.2
50°-60°	491.6	12.7
60°-70°	398.4	10.3
70°-80°	265.0	6.9
80°-90°	151.8	3.9
90°-100°	84.0	2.2
100°-110°	56.9	1.5
110°-120°	47.3	1.2
120°-130°	38.5	1.0
130°-140°	27.8	0.7
140°-150°	16.7	0.4
150°-160°	8.0	0.2
160°-170°	2.1	0.1
170°-180°	0.0	0.0
0°-30°	1131.2	29.3
0°-40°	1727.2	44.7
0°-60°	2769.5	71.6
0°-90°	3584.7	92.7
90°-120°	188.2	4.9
90°-150°	271.2	7.0
90°-180°	281.0	7.3
0°-180°	3866.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1537	1537	1537	1537	1537	
5°	1553	1527	1535	1525	1523	148
15°	1515	1482	1470	1436	1422	428
25°	1431	1368	1262	1130	1084	659
35°	1278	1138	905	760	726	797
45°	1024	811	616	594	612	787
55°	684	517	481	559	594	608
65°	349	313	392	480	505	353
75°	136	170	264	323	337	149
85°	27	79	156	199	204	32
90°	1	56	123	148	147	2
95°	1	47	98	104	101	1
105°	1	41	70	68	65	1
115°	1	37	62	62	60	1
125°	1	31	55	58	56	1
135°	1	23	43	51	51	1
145°	1	15	30	39	42	1
155°	1	9	19	25	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°	1537.3	1537.3	1537.3	1537.3	1537.3
2.5°	1556.7	1531.3	1539.3	1532.6	1523.9
5°	1553.3	1527.3	1535.3	1524.6	1522.6
7.5°	1547.3	1521.2	1525.9	1513.2	1509.9
10°	1539.3	1511.9	1512.6	1494.5	1489.8
12.5°	1528.6	1498.5	1494.5	1469.8	1463.1
15°	1514.6	1482.5	1469.8	1436.4	1422.4
17.5°	1499.2	1461.8	1435.7	1384.3	1362.2
20°	1478.5	1436.4	1391.0	1312.8	1283.4
22.5°	1457.8	1405.7	1332.8	1228.6	1189.2
25°	1431.0	1367.6	1262.0	1129.7	1083.6
27.5°	1401.0	1322.8	1180.5	1028.2	978.8
30°	1365.6	1268.7	1091.0	928.6	881.9
32.5°	1324.2	1207.9	996.8	839.1	795.7
35°	1278.1	1137.8	904.6	759.6	725.5
37.5°	1225.3	1060.9	819.1	695.5	673.4
40°	1165.1	977.4	740.2	646.0	638.7
42.5°	1100.3	895.9	672.8	614.0	620.7
45°	1023.5	811.1	616.0	593.9	612.0
47.5°	942.7	728.2	569.9	582.6	608.6
50°	864.5	651.4	533.8	575.2	606.0
52.5°	767.6	582.6	505.1	568.5	601.9
55°	684.1	517.1	481.0	559.2	593.9
57.5°	587.9	458.3	459.6	547.2	581.9
60°	507.7	404.9	438.9	530.5	563.9
62.5°	426.2	356.8	416.2	508.4	538.5
65°	349.4	312.7	391.5	479.7	505.1
67.5°	285.3	272.6	363.4	444.9	466.3
70°	231.2	235.8	332.7	406.2	424.2
72.5°	177.7	201.8	299.3	364.8	380.1
75°	135.6	169.7	263.9	323.4	336.7
77.5°	100.2	141.6	231.8	285.9	297.3
80°	70.8	116.9	201.8	253.2	261.9
82.5°	47.4	96.2	177.0	223.8	231.8
85°	27.4	78.8	155.7	199.1	204.4
87.5°	11.4	65.5	138.3	173.7	176.4
90°	1.3	55.5	122.9	148.3	147.0
92.5°	1.3	50.1	109.6	124.3	120.9
95°	1.3	46.8	97.5	104.2	100.9
97.5°	1.3	44.8	86.9	89.5	86.2
100°	0.7	43.4	79.5	79.5	76.2
102.5°	0.7	42.1	74.2	72.2	69.5
105°	0.7	40.8	70.1	68.1	64.8
107.5°	0.7	40.1	67.5	65.5	62.1
110°	0.7	38.7	65.5	63.5	60.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.7	38.1	64.1	62.8	59.5
115°	0.7	36.7	62.1	61.5	59.5
117.5°	0.7	35.4	60.8	60.8	58.8
120°	0.7	34.1	58.8	60.1	58.1
122.5°	0.7	32.7	56.8	58.8	56.8
125°	0.7	31.4	54.8	57.5	56.1
127.5°	1.3	29.4	52.1	56.1	54.8
130°	0.7	27.4	49.4	54.8	54.1
132.5°	1.3	25.4	46.8	52.8	52.8
135°	1.3	23.4	43.4	50.8	50.8
137.5°	1.3	20.7	40.1	48.1	48.8
140°	1.3	18.7	36.7	45.4	46.8
142.5°	1.3	16.7	33.4	42.8	44.8
145°	1.3	14.7	30.1	39.4	42.1
147.5°	1.3	13.4	26.7	35.4	39.4
150°	1.3	11.4	24.1	32.1	36.1
152.5°	1.3	10.0	21.4	28.7	33.4
155°	1.3	9.4	18.7	24.7	30.1
157.5°	1.3	8.0	16.0	21.4	26.7
160°	1.3	6.7	13.4	18.7	22.7
162.5°	1.3	6.0	11.4	15.4	20.0
165°	1.3	5.3	9.4	12.0	16.0
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)