

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-L935-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-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

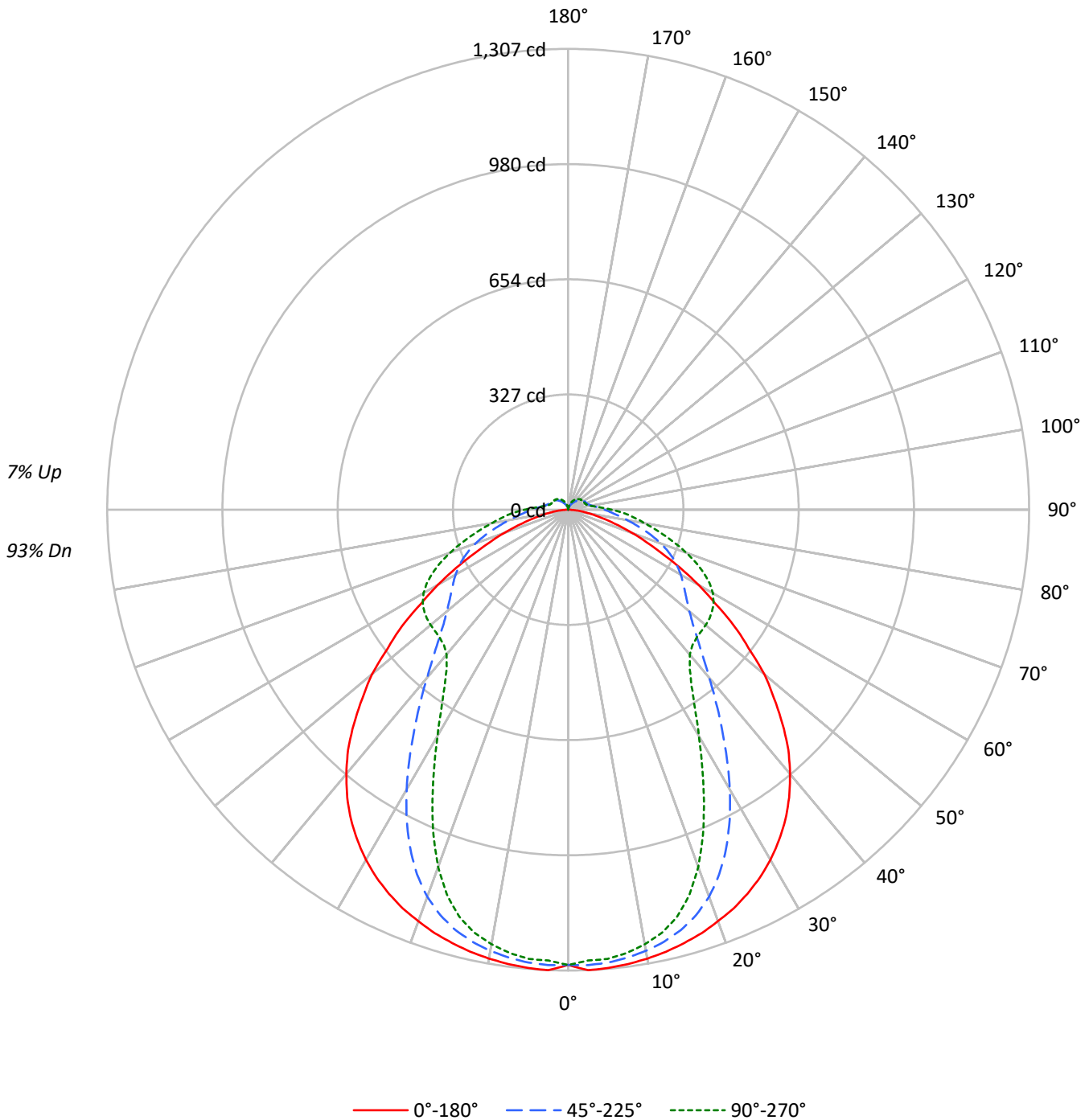
Lumens per Lamp: N/A
Luminaire Lumens: 3247.0 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

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°	10433	10433	10433
5°	10554	10204	10044
10°	10550	9921	9630
15°	10554	9589	9081
20°	10559	9095	8155
25°	10563	8334	6906
30°	10512	7333	5680
35°	10362	6239	4761
40°	10059	5284	4303
45°	9526	4593	4271
50°	8801	4198	4420
55°	7750	4035	4575
60°	6539	3978	4639
65°	5260	3889	4494
70°	4223	3688	4144
75°	3185	3338	3678
80°	2352	2998	3272
85°	1571	2827	3009



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.2	3.8
10°-20°	345.3	10.6
20°-30°	482.6	14.9
30°-40°	500.6	15.4
40°-50°	462.5	14.2
50°-60°	412.9	12.7
60°-70°	334.6	10.3
70°-80°	222.6	6.9
80°-90°	127.5	3.9
90°-100°	70.5	2.2
100°-110°	47.8	1.5
110°-120°	39.8	1.2
120°-130°	32.3	1.0
130°-140°	23.3	0.7
140°-150°	14.1	0.4
150°-160°	6.8	0.2
160°-170°	1.7	0.1
170°-180°	0.0	0.0
0°-30°	950.1	29.3
0°-40°	1450.7	44.7
0°-60°	2326.1	71.6
0°-90°	3010.8	92.7
90°-120°	158.0	4.9
90°-150°	227.7	7.0
90°-180°	236.0	7.3
0°-180°	3247.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1291	1291	1291	1291	1291	
5°	1305	1283	1290	1280	1279	124
15°	1272	1245	1234	1206	1195	359
25°	1202	1149	1060	949	910	554
35°	1073	956	760	638	609	670
45°	860	681	517	499	514	661
55°	575	434	404	470	499	511
65°	294	263	329	403	424	297
75°	114	142	222	272	283	125
85°	23	66	131	167	172	26
90°	1	47	103	125	123	2
95°	1	39	82	88	85	1
105°	1	34	59	57	54	1
115°	1	31	52	52	50	1
125°	1	26	46	48	47	1
135°	1	20	36	43	43	1
145°	1	12	25	33	35	1
155°	1	8	16	21	25	1
165°	1	4	8	10	14	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°	1291.1	1291.1	1291.1	1291.1	1291.1
2.5°	1307.4	1286.1	1292.8	1287.2	1279.9
5°	1304.6	1282.7	1289.5	1280.5	1278.8
7.5°	1299.6	1277.7	1281.6	1270.9	1268.1
10°	1292.8	1269.8	1270.4	1255.2	1251.3
12.5°	1283.8	1258.6	1255.2	1234.5	1228.9
15°	1272.1	1245.1	1234.5	1206.4	1194.6
17.5°	1259.2	1227.7	1205.8	1162.6	1144.1
20°	1241.8	1206.4	1168.3	1102.6	1077.9
22.5°	1224.4	1180.6	1119.4	1031.9	998.8
25°	1201.9	1148.6	1060.0	948.9	910.1
27.5°	1176.7	1111.0	991.5	863.6	822.0
30°	1146.9	1065.6	916.3	780.0	740.7
32.5°	1112.1	1014.5	837.2	704.8	668.3
35°	1073.4	955.6	759.8	638.0	609.4
37.5°	1029.1	891.1	687.9	584.1	565.6
40°	978.6	820.9	621.7	542.6	536.4
42.5°	924.2	752.5	565.0	515.7	521.3
45°	859.6	681.2	517.4	498.8	514.0
47.5°	791.7	611.6	478.6	489.3	511.2
50°	726.1	547.1	448.3	483.1	508.9
52.5°	644.7	489.3	424.2	477.5	505.6
55°	574.6	434.3	404.0	469.7	498.8
57.5°	493.8	384.9	386.1	459.6	488.7
60°	426.5	340.0	368.7	445.5	473.6
62.5°	358.0	299.6	349.6	427.0	452.3
65°	293.5	262.6	328.8	402.9	424.2
67.5°	239.6	228.9	305.2	373.7	391.7
70°	194.1	198.1	279.4	341.2	356.3
72.5°	149.3	169.5	251.4	306.4	319.3
75°	113.9	142.5	221.6	271.6	282.8
77.5°	84.2	119.0	194.7	240.2	249.7
80°	59.5	98.2	169.5	212.7	220.0
82.5°	39.8	80.8	148.7	188.0	194.7
85°	23.0	66.2	130.7	167.2	171.7
87.5°	9.5	55.0	116.2	145.9	148.1
90°	1.1	46.6	103.2	124.6	123.4
92.5°	1.1	42.1	92.0	104.4	101.6
95°	1.1	39.3	81.9	87.5	84.7
97.5°	1.1	37.6	72.9	75.2	72.4
100°	0.6	36.5	66.8	66.8	64.0
102.5°	0.6	35.4	62.3	60.6	58.4
105°	0.6	34.2	58.9	57.2	54.4
107.5°	0.6	33.7	56.7	55.0	52.2
110°	0.6	32.5	55.0	53.3	51.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.6	32.0	53.9	52.7	49.9
115°	0.6	30.9	52.2	51.6	49.9
117.5°	0.6	29.7	51.1	51.1	49.4
120°	0.6	28.6	49.4	50.5	48.8
122.5°	0.6	27.5	47.7	49.4	47.7
125°	0.6	26.4	46.0	48.3	47.1
127.5°	1.1	24.7	43.8	47.1	46.0
130°	0.6	23.0	41.5	46.0	45.5
132.5°	1.1	21.3	39.3	44.3	44.3
135°	1.1	19.6	36.5	42.6	42.6
137.5°	1.1	17.4	33.7	40.4	41.0
140°	1.1	15.7	30.9	38.2	39.3
142.5°	1.1	14.0	28.1	35.9	37.6
145°	1.1	12.3	25.3	33.1	35.4
147.5°	1.1	11.2	22.4	29.7	33.1
150°	1.1	9.5	20.2	26.9	30.3
152.5°	1.1	8.4	18.0	24.1	28.1
155°	1.1	7.9	15.7	20.8	25.3
157.5°	1.1	6.7	13.5	18.0	22.4
160°	1.1	5.6	11.2	15.7	19.1
162.5°	1.1	5.1	9.5	12.9	16.8
165°	1.1	4.5	7.9	10.1	13.5
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)