

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-L950-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-L950-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

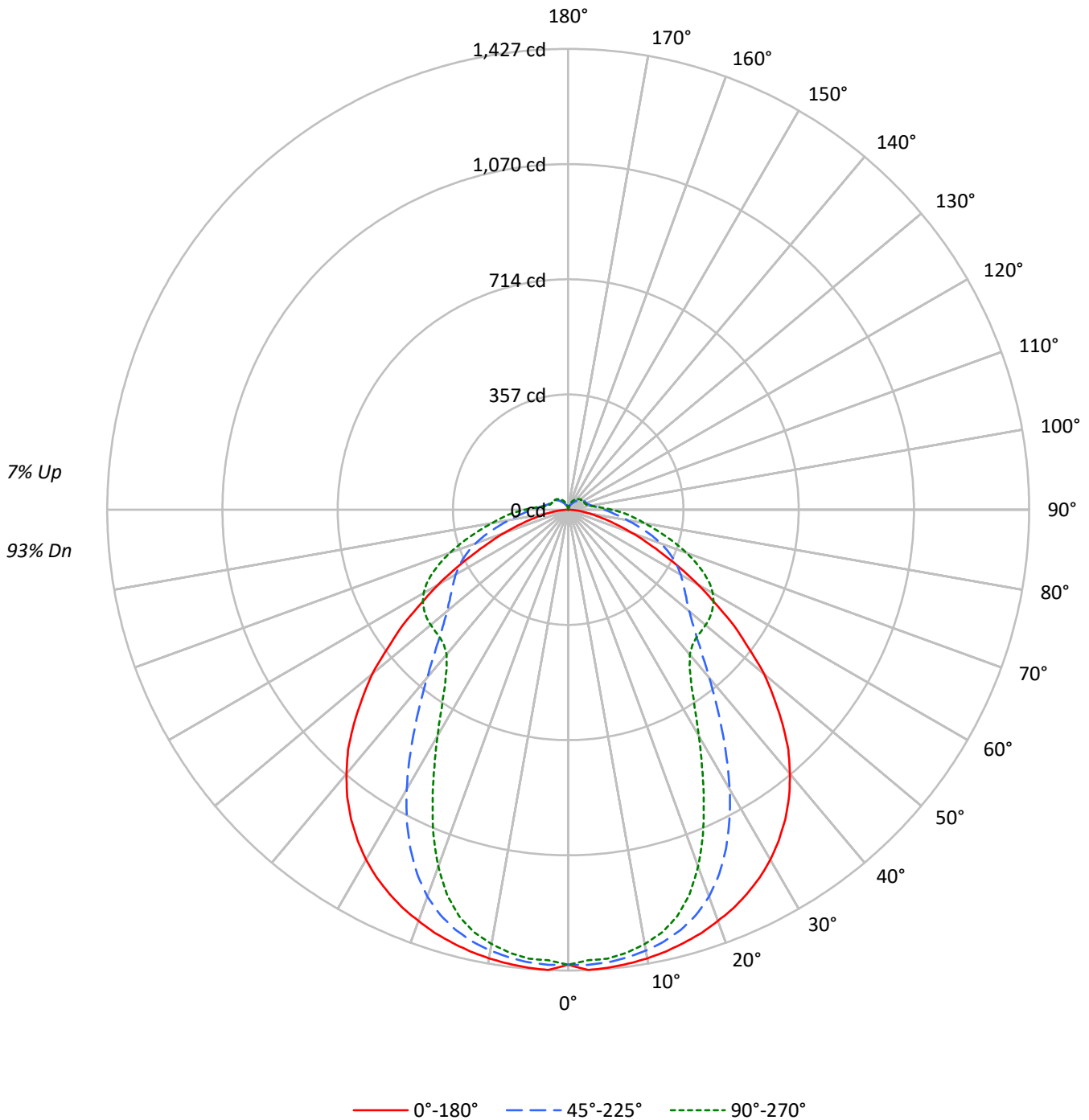
Lumens per Lamp: N/A
Luminaire Lumens: 3543.0 lumens
Efficiency: N/A
Efficacy: 126.5 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 28
Input Voltage (V): NR
Input Current (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	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°	11385	11385	11385
5°	11516	11133	10959
10°	11512	10826	10508
15°	11516	10463	9909
20°	11521	9924	8899
25°	11526	9094	7536
30°	11471	8001	6198
35°	11308	6808	5194
40°	10976	5765	4695
45°	10395	5011	4660
50°	9603	4581	4823
55°	8456	4403	4992
60°	7134	4340	5062
65°	5738	4244	4904
70°	4609	4025	4522
75°	3476	3642	4013
80°	2566	3271	3570
85°	1715	3087	3284



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.3	3.8
10°-20°	376.7	10.6
20°-30°	526.6	14.9
30°-40°	546.3	15.4
40°-50°	504.7	14.2
50°-60°	450.6	12.7
60°-70°	365.1	10.3
70°-80°	242.9	6.9
80°-90°	139.1	3.9
90°-100°	76.9	2.2
100°-110°	52.1	1.5
110°-120°	43.4	1.2
120°-130°	35.3	1.0
130°-140°	25.4	0.7
140°-150°	15.3	0.4
150°-160°	7.4	0.2
160°-170°	1.9	0.1
170°-180°	0.0	0.0
0°-30°	1036.7	29.3
0°-40°	1582.9	44.7
0°-60°	2538.2	71.6
0°-90°	3285.3	92.7
90°-120°	172.4	4.9
90°-150°	248.5	7.0
90°-180°	258.0	7.3
0°-180°	3543.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1409	1409	1409	1409	1409	
5°	1424	1400	1407	1397	1395	135
15°	1388	1359	1347	1316	1304	392
25°	1312	1253	1157	1035	993	604
35°	1171	1043	829	696	665	731
45°	938	743	564	544	561	721
55°	627	474	441	512	544	557
65°	320	286	359	440	463	324
75°	124	156	242	296	309	136
85°	25	72	143	182	187	29
90°	1	51	113	136	135	2
95°	1	43	89	96	92	1
105°	1	37	64	62	59	1
115°	1	34	57	56	54	1
125°	1	29	50	53	51	1
135°	1	21	40	46	46	1
145°	1	14	28	36	39	1
155°	1	9	17	23	28	1
165°	1	5	9	11	15	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°	1408.8	1408.8	1408.8	1408.8	1408.8
2.5°	1426.6	1403.3	1410.7	1404.6	1396.6
5°	1423.5	1399.7	1407.0	1397.2	1395.4
7.5°	1418.0	1394.1	1398.4	1386.8	1383.7
10°	1410.7	1385.6	1386.2	1369.7	1365.4
12.5°	1400.9	1373.3	1369.7	1347.0	1340.9
15°	1388.0	1358.6	1347.0	1316.4	1303.5
17.5°	1373.9	1339.7	1315.8	1268.6	1248.4
20°	1355.0	1316.4	1274.8	1203.1	1176.2
22.5°	1336.0	1288.2	1221.5	1126.0	1089.8
25°	1311.5	1253.3	1156.6	1035.4	993.1
27.5°	1283.9	1212.3	1081.9	942.3	897.0
30°	1251.5	1162.7	999.8	851.1	808.2
32.5°	1213.5	1107.0	913.5	769.0	729.2
35°	1171.3	1042.7	829.0	696.2	664.9
37.5°	1122.9	972.3	750.6	637.4	617.2
40°	1067.8	895.8	678.4	592.1	585.3
42.5°	1008.4	821.1	616.6	562.7	568.8
45°	938.0	743.3	564.5	544.3	560.8
47.5°	863.9	667.4	522.3	533.9	557.8
50°	792.3	597.0	489.2	527.2	555.3
52.5°	703.5	533.9	462.9	521.0	551.7
55°	627.0	473.9	440.8	512.5	544.3
57.5°	538.8	420.0	421.2	501.5	533.3
60°	465.3	371.0	402.3	486.1	516.8
62.5°	390.6	327.0	381.4	465.9	493.5
65°	320.2	286.5	358.8	439.6	462.9
67.5°	261.4	249.8	333.1	407.8	427.4
70°	211.8	216.1	304.9	372.3	388.8
72.5°	162.9	184.9	274.3	334.3	348.4
75°	124.3	155.5	241.8	296.3	308.6
77.5°	91.8	129.8	212.5	262.1	272.5
80°	64.9	107.1	184.9	232.1	240.0
82.5°	43.5	88.2	162.3	205.1	212.5
85°	25.1	72.2	142.7	182.5	187.4
87.5°	10.4	60.0	126.7	159.2	161.6
90°	1.2	50.8	112.7	135.9	134.7
92.5°	1.2	45.9	100.4	113.9	110.8
95°	1.2	42.9	89.4	95.5	92.5
97.5°	1.2	41.0	79.6	82.0	79.0
100°	0.6	39.8	72.9	72.9	69.8
102.5°	0.6	38.6	68.0	66.1	63.7
105°	0.6	37.3	64.3	62.5	59.4
107.5°	0.6	36.7	61.8	60.0	56.9
110°	0.6	35.5	60.0	58.2	55.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.6	34.9	58.8	57.6	54.5
115°	0.6	33.7	56.9	56.3	54.5
117.5°	0.6	32.5	55.7	55.7	53.9
120°	0.6	31.2	53.9	55.1	53.3
122.5°	0.6	30.0	52.0	53.9	52.0
125°	0.6	28.8	50.2	52.7	51.4
127.5°	1.2	26.9	47.8	51.4	50.2
130°	0.6	25.1	45.3	50.2	49.6
132.5°	1.2	23.3	42.9	48.4	48.4
135°	1.2	21.4	39.8	46.5	46.5
137.5°	1.2	19.0	36.7	44.1	44.7
140°	1.2	17.1	33.7	41.6	42.9
142.5°	1.2	15.3	30.6	39.2	41.0
145°	1.2	13.5	27.6	36.1	38.6
147.5°	1.2	12.2	24.5	32.5	36.1
150°	1.2	10.4	22.0	29.4	33.1
152.5°	1.2	9.2	19.6	26.3	30.6
155°	1.2	8.6	17.1	22.7	27.6
157.5°	1.2	7.3	14.7	19.6	24.5
160°	1.2	6.1	12.2	17.1	20.8
162.5°	1.2	5.5	10.4	14.1	18.4
165°	1.2	4.9	8.6	11.0	14.7
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)