

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-L940-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-L940-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

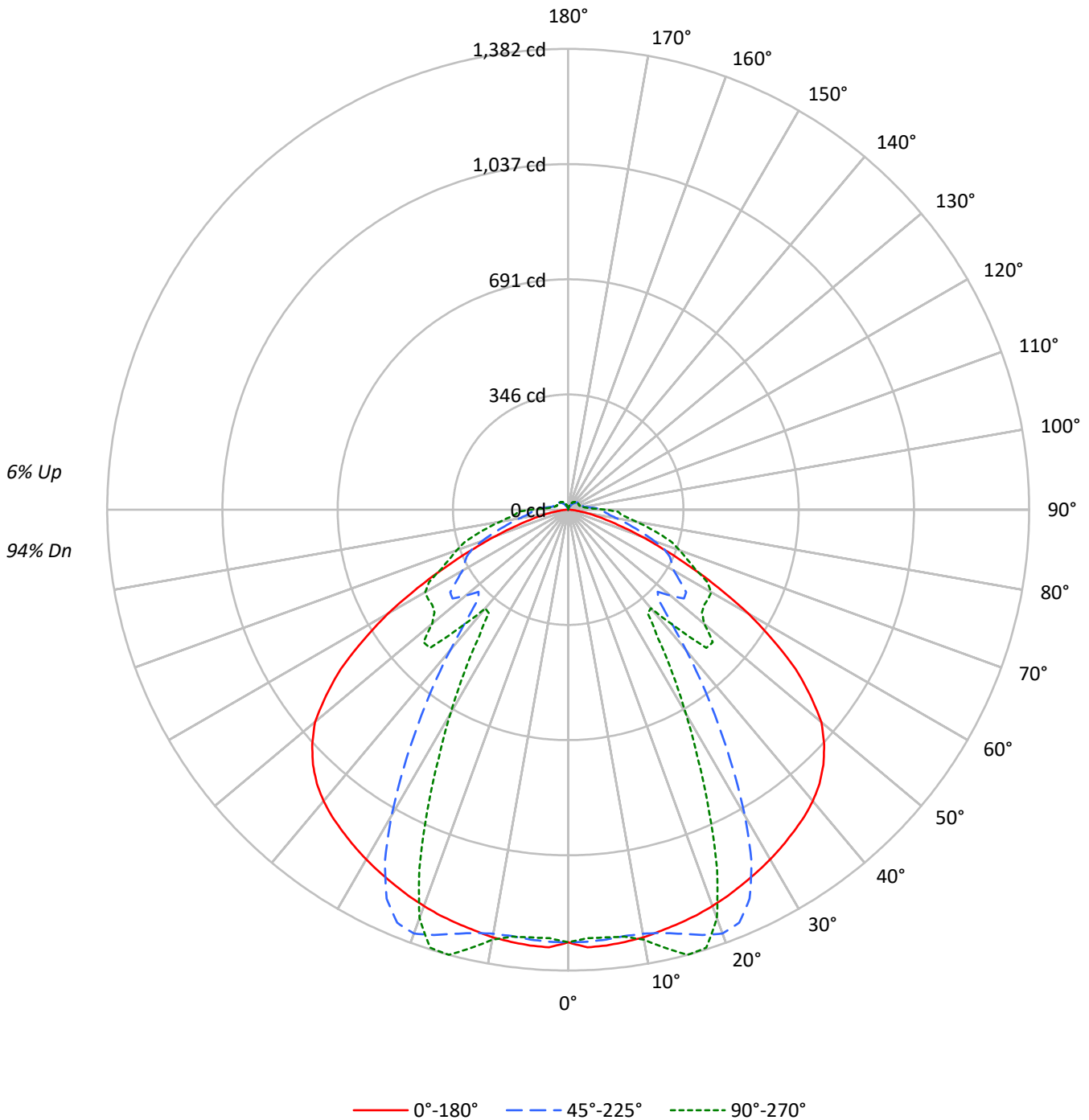
Lumens per Lamp: N/A
Luminaire Lumens: 3333.0 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 28
Input Voltage (V): NR
Input Current (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	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°	10485	10485	10485
5°	10613	10240	10114
10°	10626	10084	10079
15°	10655	10226	10505
20°	10755	10530	9860
25°	10888	10120	7593
30°	11103	8476	5401
35°	11378	6419	3657
40°	11726	4667	3097
45°	11992	3385	4868
50°	12009	3748	4620
55°	11225	4314	4562
60°	9564	3948	4849
65°	7195	3981	4436
70°	5048	3623	4129
75°	3308	3036	3705
80°	2111	2600	3083
85°	1141	2472	2769



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.4	3.7
10°-20°	372.8	11.2
20°-30°	541.5	16.2
30°-40°	517.4	15.5
40°-50°	473.3	14.2
50°-60°	437.0	13.1
60°-70°	347.1	10.4
70°-80°	214.2	6.4
80°-90°	116.7	3.5
90°-100°	59.0	1.8
100°-110°	37.1	1.1
110°-120°	31.4	0.9
120°-130°	25.6	0.8
130°-140°	18.4	0.6
140°-150°	11.3	0.3
150°-160°	5.4	0.2
160°-170°	1.4	0.0
170°-180°	0.0	0.0
0°-30°	1037.7	31.1
0°-40°	1555.1	46.7
0°-60°	2465.4	74.0
0°-90°	3143.5	94.3
90°-120°	127.4	3.8
90°-150°	182.8	5.5
90°-180°	190.0	5.7
0°-180°	3333.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1298	1298	1298	1298	1298	
5°	1312	1292	1294	1287	1288	125
15°	1284	1267	1316	1365	1382	363
25°	1239	1263	1287	1090	1001	573
35°	1179	1160	782	538	468	739
45°	1082	755	381	486	586	832
55°	832	387	432	465	497	733
65°	402	251	337	409	419	406
75°	118	134	202	267	285	134
85°	17	57	114	156	158	21
90°	1	42	102	121	112	1
95°	0	40	71	63	59	0
105°	0	36	44	40	39	0
115°	0	29	42	37	36	0
125°	1	24	37	36	34	0
135°	1	17	30	33	32	0
145°	1	10	21	26	28	0
155°	1	6	13	17	20	0
165°	1	3	6	8	11	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°	1297.5	1297.5	1297.5	1297.5	1297.5
2.5°	1313.6	1294.6	1296.9	1292.9	1286.0
5°	1311.9	1291.8	1294.1	1287.2	1287.7
7.5°	1307.3	1286.6	1289.5	1288.3	1291.2
10°	1302.1	1280.3	1291.2	1301.0	1309.6
12.5°	1292.9	1273.4	1299.8	1328.5	1346.3
15°	1284.3	1267.1	1316.5	1365.3	1381.9
17.5°	1275.7	1264.8	1337.1	1379.6	1377.3
20°	1264.8	1263.6	1352.6	1338.3	1303.2
22.5°	1252.7	1264.2	1340.6	1235.5	1166.5
25°	1238.9	1263.0	1287.2	1089.6	1000.6
27.5°	1225.1	1257.9	1190.1	929.9	842.0
30°	1211.3	1244.1	1059.1	784.0	704.2
32.5°	1195.3	1214.2	916.7	654.8	581.3
35°	1178.6	1159.7	781.7	538.2	468.1
37.5°	1161.4	1081.0	660.5	435.9	391.1
40°	1140.7	982.2	549.1	373.9	386.0
42.5°	1114.9	870.7	450.9	392.3	476.2
45°	1082.1	754.7	381.4	486.5	585.9
47.5°	1040.8	643.3	364.2	557.1	588.2
50°	990.8	541.1	400.3	534.2	531.9
52.5°	915.0	456.1	437.1	487.1	505.4
55°	832.3	387.1	431.9	464.7	497.4
57.5°	727.7	340.6	396.3	460.1	498.0
60°	623.8	309.6	365.9	459.5	495.1
62.5°	508.9	281.4	350.4	448.6	469.8
65°	401.5	251.0	336.6	409.0	418.7
67.5°	307.9	220.0	312.5	364.7	384.3
70°	232.0	189.5	274.5	330.8	355.0
72.5°	167.1	160.8	235.5	301.0	326.2
75°	118.3	133.8	201.6	267.1	284.9
77.5°	81.6	109.1	172.9	229.7	244.1
80°	53.4	87.3	147.0	197.6	207.3
82.5°	32.2	70.1	127.5	172.9	178.1
85°	16.7	56.9	114.3	155.7	158.0
87.5°	5.2	47.7	106.8	147.6	150.5
90°	0.6	42.5	102.2	121.2	112.0
92.5°	0.0	40.2	88.5	82.7	74.1
95°	0.0	39.6	70.6	62.6	59.2
97.5°	0.0	38.5	58.0	52.3	50.5
100°	0.0	37.3	50.0	45.9	45.4
102.5°	0.0	36.8	45.4	41.9	41.4
105°	0.0	35.6	43.7	39.6	39.1
107.5°	0.0	33.9	42.5	38.5	37.3
110°	0.0	32.2	42.5	37.9	36.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	30.4	42.5	37.3	35.6
115°	0.0	29.3	41.9	37.3	35.6
117.5°	0.6	28.1	41.4	37.3	35.6
120°	0.0	27.0	40.2	37.3	35.0
122.5°	0.6	25.3	39.1	36.8	35.0
125°	0.6	23.5	37.3	36.2	34.5
127.5°	0.6	21.8	35.6	35.0	33.3
130°	0.6	20.1	33.9	34.5	32.7
132.5°	0.6	18.4	31.6	33.3	32.2
135°	0.6	16.7	29.9	32.7	31.6
137.5°	0.6	14.9	27.6	31.0	31.0
140°	0.6	13.2	25.3	29.9	30.4
142.5°	0.6	12.1	23.0	28.7	29.3
145°	0.6	10.3	20.7	26.4	28.1
147.5°	0.6	9.2	18.4	24.1	26.4
150°	0.6	8.0	16.1	21.8	24.1
152.5°	0.6	6.9	14.4	19.0	22.4
155°	1.1	6.3	12.6	16.7	20.1
157.5°	1.1	5.2	10.3	14.4	17.2
160°	1.1	4.6	9.2	12.1	15.5
162.5°	1.1	4.0	7.5	10.3	13.2
165°	1.1	3.4	6.3	8.0	10.9
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)