

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-LD5-41SL-SLC-UNV-L930-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-LD5-41SL-SLC-UNV-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

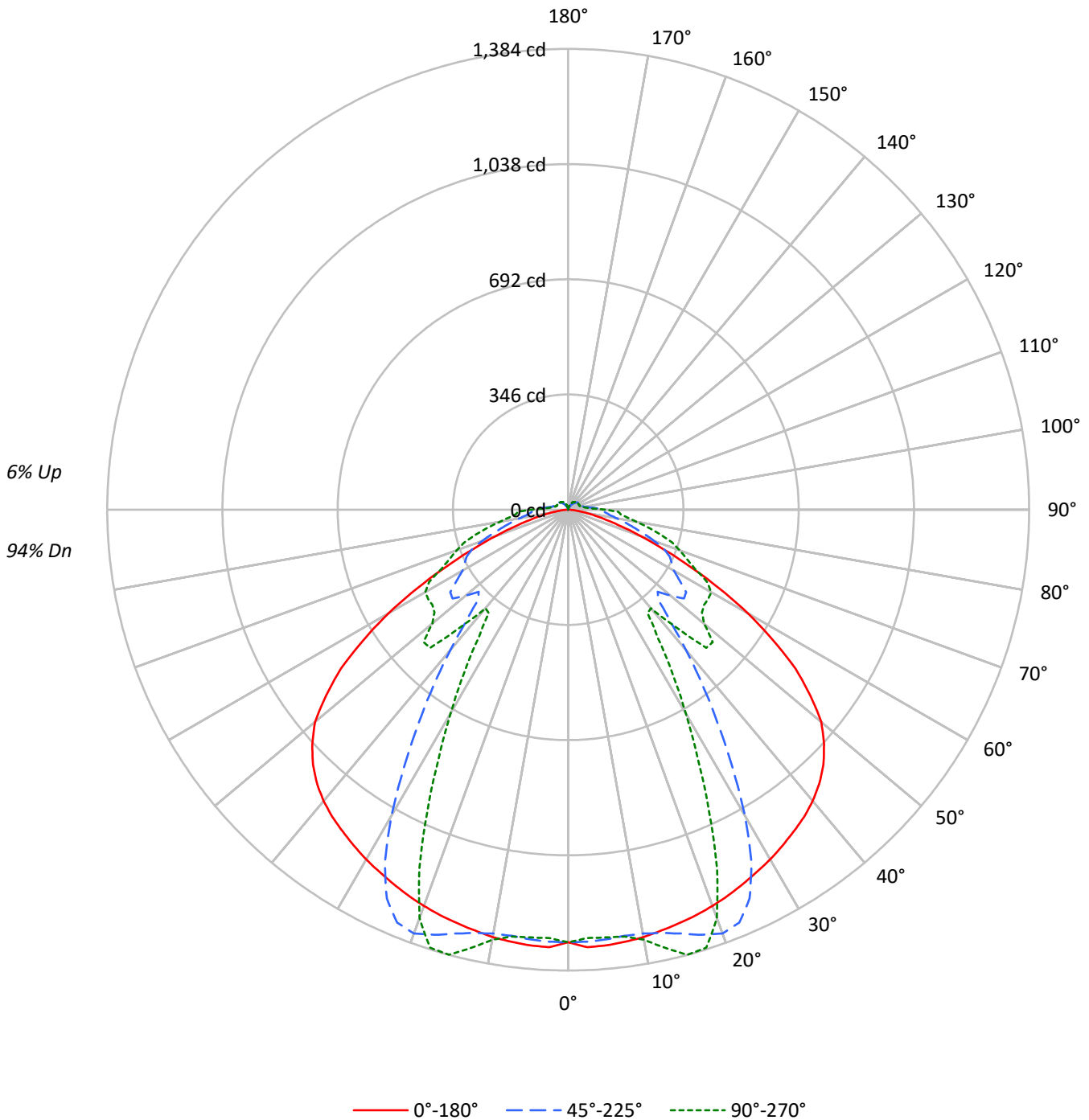
Lumens per Lamp: N/A
Luminaire Lumens: 3337.1 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 31
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°	10498	10498	10498
5°	10625	10252	10126
10°	10639	10096	10091
15°	10668	10238	10517
20°	10767	10543	9872
25°	10901	10132	7602
30°	11116	8486	5407
35°	11392	6427	3661
40°	11740	4673	3100
45°	12006	3389	4874
50°	12023	3753	4625
55°	11239	4319	4568
60°	9575	3952	4855
65°	7204	3986	4441
70°	5055	3629	4134
75°	3313	3039	3709
80°	2115	2604	3088
85°	1141	2475	2771



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.6	3.7
10°-20°	373.2	11.2
20°-30°	542.2	16.2
30°-40°	518.0	15.5
40°-50°	473.9	14.2
50°-60°	437.5	13.1
60°-70°	347.5	10.4
70°-80°	214.5	6.4
80°-90°	116.8	3.5
90°-100°	59.0	1.8
100°-110°	37.1	1.1
110°-120°	31.4	0.9
120°-130°	25.7	0.8
130°-140°	18.4	0.6
140°-150°	11.4	0.3
150°-160°	5.4	0.2
160°-170°	1.4	0.0
170°-180°	0.0	0.0
0°-30°	1039.0	31.1
0°-40°	1557.0	46.7
0°-60°	2468.4	74.0
0°-90°	3147.2	94.3
90°-120°	127.6	3.8
90°-150°	183.0	5.5
90°-180°	190.0	5.7
0°-180°	3337.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1299	1299	1299	1299	1299	
5°	1313	1293	1296	1289	1289	125
15°	1286	1269	1318	1367	1384	364
25°	1240	1265	1289	1091	1002	573
35°	1180	1161	783	539	469	740
45°	1083	756	382	487	587	833
55°	833	388	432	465	498	734
65°	402	251	337	409	419	406
75°	118	134	202	267	285	134
85°	17	57	114	156	158	21
90°	1	43	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	4	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°	1299.1	1299.1	1299.1	1299.1	1299.1
2.5°	1315.2	1296.2	1298.5	1294.5	1287.6
5°	1313.4	1293.3	1295.6	1288.7	1289.3
7.5°	1308.8	1288.1	1291.0	1289.9	1292.7
10°	1303.7	1281.8	1292.7	1302.5	1311.1
12.5°	1294.5	1274.9	1301.4	1330.1	1347.9
15°	1285.8	1268.6	1318.0	1366.9	1383.6
17.5°	1277.2	1266.3	1338.7	1381.3	1379.0
20°	1266.3	1265.1	1354.3	1339.9	1304.8
22.5°	1254.2	1265.7	1342.2	1237.0	1167.9
25°	1240.4	1264.6	1288.7	1090.9	1001.8
27.5°	1226.6	1259.4	1191.5	931.0	843.0
30°	1212.8	1245.6	1060.4	785.0	705.0
32.5°	1196.7	1215.7	917.8	655.6	582.0
35°	1180.0	1161.0	782.7	538.8	468.7
37.5°	1162.8	1082.3	661.3	436.5	391.6
40°	1142.1	983.4	549.8	374.4	386.4
42.5°	1116.2	871.8	451.4	392.8	476.7
45°	1083.4	755.6	381.8	487.1	586.6
47.5°	1042.0	644.1	364.6	557.8	588.9
50°	992.0	541.7	400.8	534.8	532.5
52.5°	916.1	456.6	437.6	487.7	506.1
55°	833.3	387.6	432.4	465.2	498.0
57.5°	728.6	341.0	396.8	460.6	498.6
60°	624.5	310.0	366.3	460.0	495.7
62.5°	509.5	281.8	350.8	449.1	470.4
65°	402.0	251.3	337.0	409.4	419.2
67.5°	308.2	220.2	312.8	365.2	384.7
70°	232.3	189.8	274.9	331.2	355.4
72.5°	167.3	161.0	235.8	301.3	326.6
75°	118.5	134.0	201.8	267.4	285.2
77.5°	81.7	109.3	173.1	230.0	244.4
80°	53.5	87.4	147.2	197.8	207.6
82.5°	32.2	70.2	127.7	173.1	178.3
85°	16.7	56.9	114.4	155.8	158.1
87.5°	5.2	47.7	107.0	147.8	150.7
90°	0.6	42.6	102.4	121.3	112.1
92.5°	0.0	40.3	88.6	82.8	74.2
95°	0.0	39.7	70.7	62.7	59.2
97.5°	0.0	38.5	58.1	52.3	50.6
100°	0.0	37.4	50.0	46.0	45.4
102.5°	0.0	36.8	45.4	42.0	41.4
105°	0.0	35.7	43.7	39.7	39.1
107.5°	0.0	33.9	42.6	38.5	37.4
110°	0.0	32.2	42.6	38.0	36.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	30.5	42.6	37.4	35.7
115°	0.0	29.3	42.0	37.4	35.7
117.5°	0.6	28.2	41.4	37.4	35.7
120°	0.0	27.0	40.3	37.4	35.1
122.5°	0.6	25.3	39.1	36.8	35.1
125°	0.6	23.6	37.4	36.2	34.5
127.5°	0.6	21.9	35.7	35.1	33.4
130°	0.6	20.1	33.9	34.5	32.8
132.5°	0.6	18.4	31.6	33.4	32.2
135°	0.6	16.7	29.9	32.8	31.6
137.5°	0.6	15.0	27.6	31.1	31.1
140°	0.6	13.2	25.3	29.9	30.5
142.5°	0.6	12.1	23.0	28.8	29.3
145°	0.6	10.4	20.7	26.5	28.2
147.5°	0.6	9.2	18.4	24.2	26.5
150°	0.6	8.1	16.1	21.9	24.2
152.5°	0.6	6.9	14.4	19.0	22.4
155°	1.2	6.3	12.7	16.7	20.1
157.5°	1.2	5.2	10.4	14.4	17.3
160°	1.2	4.6	9.2	12.1	15.5
162.5°	1.2	4.0	7.5	10.4	13.2
165°	1.2	3.5	6.3	8.1	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)