

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-LD5-30SL-SLC-UNV-L850-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-LD5-30SL-SLC-UNV-L850-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

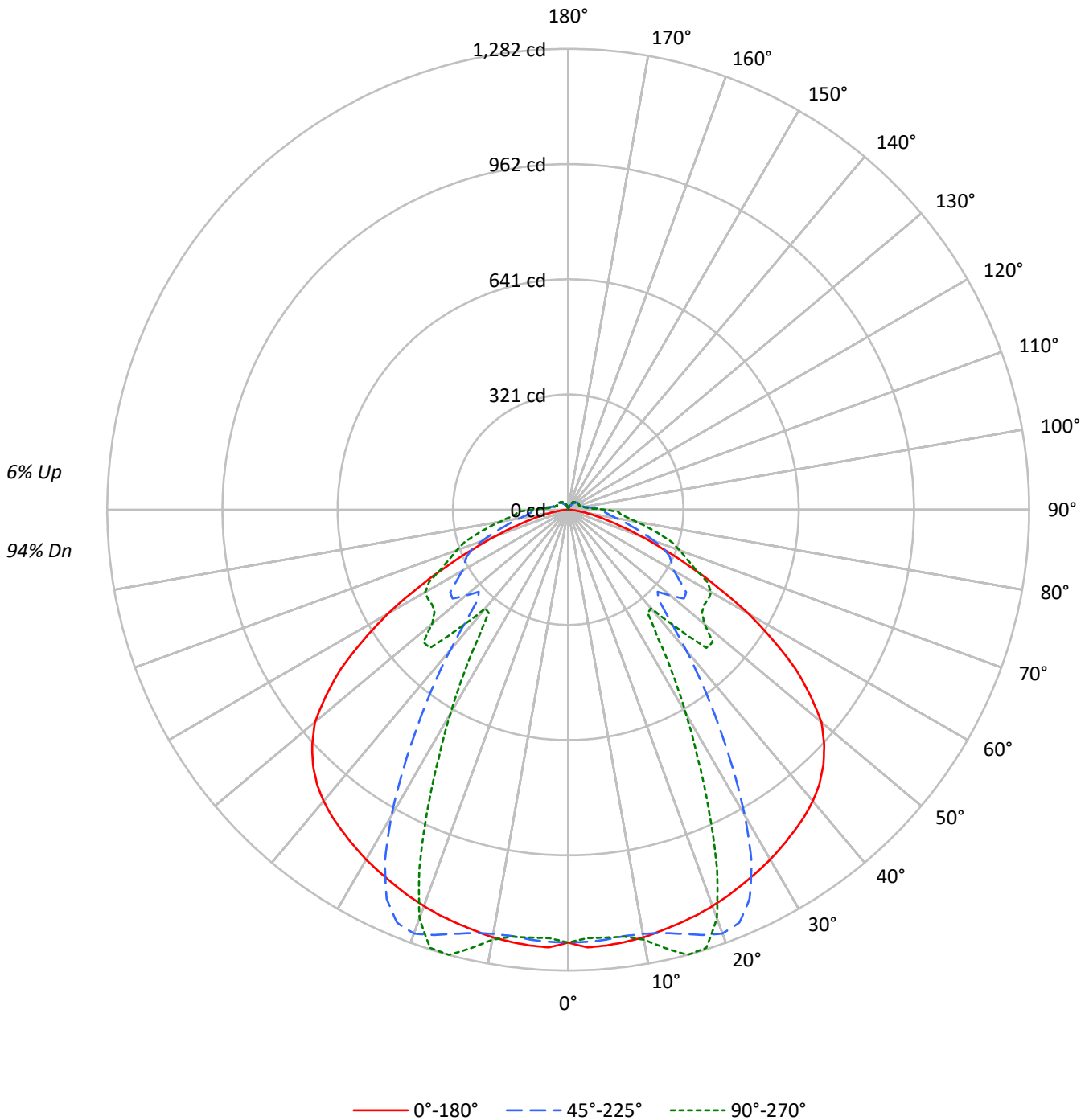
Lumens per Lamp: N/A
Luminaire Lumens: 3092.0 lumens
Efficiency: N/A
Efficacy: 147.2 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 21
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	64	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°	9727	9727	9727
5°	9845	9499	9382
10°	9857	9355	9350
15°	9885	9487	9745
20°	9976	9769	9147
25°	10100	9388	7043
30°	10301	7863	5010
35°	10556	5955	3393
40°	10878	4329	2873
45°	11125	3140	4516
50°	11140	3478	4286
55°	10413	4002	4232
60°	8873	3662	4498
65°	6675	3693	4115
70°	4685	3362	3830
75°	3070	2816	3437
80°	1961	2413	2862
85°	1059	2293	2567



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.5	3.7
10°-20°	345.8	11.2
20°-30°	502.4	16.2
30°-40°	480.0	15.5
40°-50°	439.1	14.2
50°-60°	405.4	13.1
60°-70°	322.0	10.4
70°-80°	198.8	6.4
80°-90°	108.2	3.5
90°-100°	54.7	1.8
100°-110°	34.4	1.1
110°-120°	29.1	0.9
120°-130°	23.8	0.8
130°-140°	17.1	0.6
140°-150°	10.5	0.3
150°-160°	5.0	0.2
160°-170°	1.3	0.0
170°-180°	0.0	0.0
0°-30°	962.7	31.1
0°-40°	1442.7	46.7
0°-60°	2287.2	74.0
0°-90°	2916.2	94.3
90°-120°	118.2	3.8
90°-150°	169.5	5.5
90°-180°	176.0	5.7
0°-180°	3092.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1204	1204	1204	1204	1204	
5°	1217	1198	1200	1194	1195	116
15°	1191	1175	1221	1267	1282	337
25°	1149	1172	1194	1011	928	531
35°	1093	1076	725	499	434	686
45°	1004	700	354	451	544	771
55°	772	359	401	431	461	680
65°	372	233	312	379	388	377
75°	110	124	187	248	264	124
85°	16	53	106	144	146	20
90°	0	39	95	112	104	1
95°	0	37	66	58	55	0
105°	0	33	40	37	36	0
115°	0	27	39	35	33	0
125°	0	22	35	34	32	0
135°	0	16	28	30	29	0
145°	0	10	19	24	26	0
155°	1	6	12	16	19	0
165°	1	3	6	8	10	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°	1203.7	1203.7	1203.7	1203.7	1203.7
2.5°	1218.6	1201.0	1203.2	1199.4	1193.0
5°	1217.0	1198.4	1200.5	1194.1	1194.6
7.5°	1212.7	1193.6	1196.2	1195.2	1197.8
10°	1207.9	1187.7	1197.8	1206.9	1214.9
12.5°	1199.4	1181.3	1205.8	1232.5	1249.0
15°	1191.4	1175.4	1221.3	1266.6	1282.0
17.5°	1183.4	1173.3	1240.5	1279.9	1277.8
20°	1173.3	1172.2	1254.8	1241.5	1209.0
22.5°	1162.1	1172.8	1243.6	1146.1	1082.2
25°	1149.3	1171.7	1194.1	1010.8	928.2
27.5°	1136.5	1166.9	1104.0	862.7	781.1
30°	1123.8	1154.1	982.6	727.3	653.3
32.5°	1108.8	1126.4	850.4	607.4	539.2
35°	1093.4	1075.8	725.2	499.3	434.3
37.5°	1077.4	1002.8	612.8	404.4	362.9
40°	1058.2	911.2	509.4	346.9	358.1
42.5°	1034.2	807.8	418.3	363.9	441.7
45°	1003.9	700.2	353.8	451.3	543.5
47.5°	965.5	596.8	337.8	516.9	545.6
50°	919.1	501.9	371.4	495.5	493.4
52.5°	848.8	423.1	405.5	451.8	468.9
55°	772.1	359.1	400.7	431.1	461.4
57.5°	675.1	316.0	367.7	426.8	462.0
60°	578.7	287.2	339.4	426.3	459.3
62.5°	472.1	261.1	325.0	416.1	435.9
65°	372.5	232.9	312.2	379.4	388.4
67.5°	285.6	204.1	289.9	338.4	356.5
70°	215.3	175.8	254.7	306.9	329.3
72.5°	155.1	149.2	218.5	279.2	302.7
75°	109.8	124.2	187.0	247.8	264.3
77.5°	75.7	101.2	160.4	213.1	226.5
80°	49.6	81.0	136.4	183.3	192.4
82.5°	29.8	65.0	118.3	160.4	165.2
85°	15.5	52.8	106.0	144.4	146.5
87.5°	4.8	44.2	99.1	136.9	139.6
90°	0.5	39.4	94.8	112.4	103.9
92.5°	0.0	37.3	82.1	76.7	68.7
95°	0.0	36.8	65.5	58.1	54.9
97.5°	0.0	35.7	53.8	48.5	46.9
100°	0.0	34.6	46.4	42.6	42.1
102.5°	0.0	34.1	42.1	38.9	38.4
105°	0.0	33.0	40.5	36.8	36.2
107.5°	0.0	31.4	39.4	35.7	34.6
110°	0.0	29.8	39.4	35.2	33.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	28.2	39.4	34.6	33.0
115°	0.0	27.2	38.9	34.6	33.0
117.5°	0.5	26.1	38.4	34.6	33.0
120°	0.0	25.0	37.3	34.6	32.5
122.5°	0.5	23.4	36.2	34.1	32.5
125°	0.5	21.8	34.6	33.6	32.0
127.5°	0.5	20.2	33.0	32.5	30.9
130°	0.5	18.6	31.4	32.0	30.4
132.5°	0.5	17.1	29.3	30.9	29.8
135°	0.5	15.5	27.7	30.4	29.3
137.5°	0.5	13.9	25.6	28.8	28.8
140°	0.5	12.3	23.4	27.7	28.2
142.5°	0.5	11.2	21.3	26.6	27.2
145°	0.5	9.6	19.2	24.5	26.1
147.5°	0.5	8.5	17.1	22.4	24.5
150°	0.5	7.5	14.9	20.2	22.4
152.5°	0.5	6.4	13.3	17.6	20.8
155°	1.1	5.9	11.7	15.5	18.6
157.5°	1.1	4.8	9.6	13.3	16.0
160°	1.1	4.3	8.5	11.2	14.4
162.5°	1.1	3.7	6.9	9.6	12.3
165°	1.1	3.2	5.9	7.5	10.1
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)