

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-SLN-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 (P27402)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-30SL-SLN-UNV-L850-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

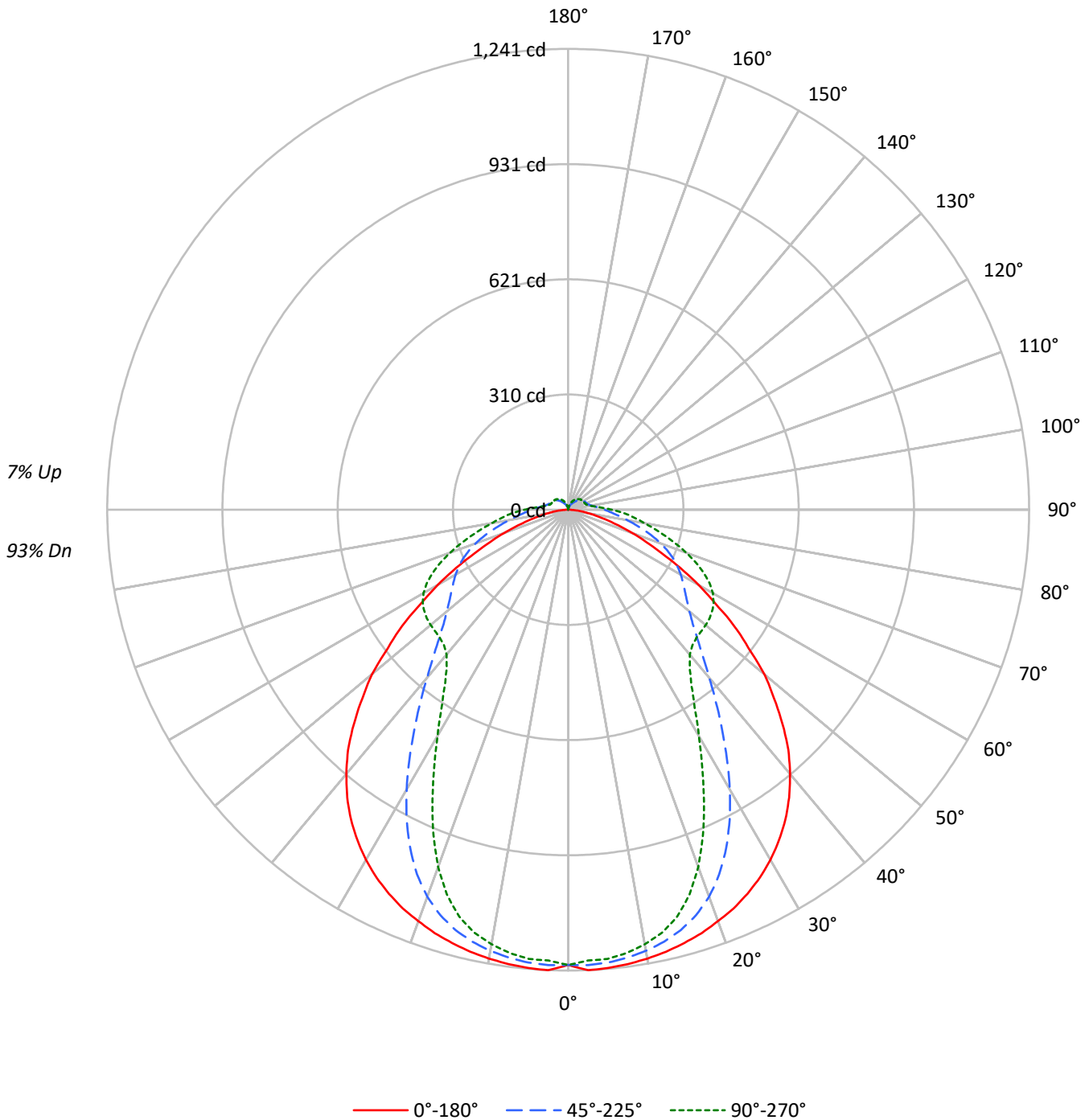
Lumens per Lamp: N/A
Luminaire Lumens: 3083.0 lumens
Efficiency: N/A
Efficacy: 146.8 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 21
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°	9907	9907	9907
5°	10021	9688	9536
10°	10017	9420	9144
15°	10021	9104	8622
20°	10025	8635	7744
25°	10029	7913	6558
30°	9982	6962	5394
35°	9839	5924	4520
40°	9552	5017	4086
45°	9045	4360	4055
50°	8356	3986	4197
55°	7358	3831	4344
60°	6208	3776	4404
65°	4993	3693	4267
70°	4010	3502	3935
75°	3025	3169	3492
80°	2233	2846	3106
85°	1489	2684	2857



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.0	3.8
10°-20°	327.8	10.6
20°-30°	458.3	14.9
30°-40°	475.3	15.4
40°-50°	439.1	14.2
50°-60°	392.1	12.7
60°-70°	317.7	10.3
70°-80°	211.3	6.9
80°-90°	121.0	3.9
90°-100°	67.0	2.2
100°-110°	45.3	1.5
110°-120°	37.7	1.2
120°-130°	30.7	1.0
130°-140°	22.1	0.7
140°-150°	13.3	0.4
150°-160°	6.4	0.2
160°-170°	1.7	0.1
170°-180°	0.0	0.0
0°-30°	902.1	29.3
0°-40°	1377.4	44.7
0°-60°	2208.6	71.6
0°-90°	2858.7	92.7
90°-120°	150.0	4.9
90°-150°	216.2	7.0
90°-180°	224.0	7.3
0°-180°	3083.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1226	1226	1226	1226	1226	
5°	1239	1218	1224	1216	1214	118
15°	1208	1182	1172	1146	1134	341
25°	1141	1091	1006	901	864	526
35°	1019	907	721	606	579	636
45°	816	647	491	474	488	628
55°	546	412	384	446	474	485
65°	279	249	312	382	403	282
75°	108	135	210	258	268	119
85°	22	63	124	159	163	25
90°	1	44	98	118	117	2
95°	1	37	78	83	80	1
105°	0	32	56	54	52	1
115°	0	29	50	49	47	0
125°	0	25	44	46	45	1
135°	1	19	35	40	40	1
145°	1	12	24	31	34	1
155°	1	8	15	20	24	1
165°	1	4	8	10	13	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°	1225.9	1225.9	1225.9	1225.9	1225.9
2.5°	1241.4	1221.1	1227.5	1222.2	1215.3
5°	1238.7	1217.9	1224.3	1215.8	1214.2
7.5°	1233.9	1213.1	1216.9	1206.7	1204.1
10°	1227.5	1205.7	1206.2	1191.8	1188.1
12.5°	1219.0	1195.0	1191.8	1172.1	1166.8
15°	1207.8	1182.2	1172.1	1145.5	1134.3
17.5°	1195.6	1165.7	1144.9	1103.9	1086.3
20°	1179.0	1145.5	1109.2	1046.9	1023.5
22.5°	1162.5	1121.0	1062.9	979.8	948.3
25°	1141.2	1090.6	1006.4	900.9	864.2
27.5°	1117.2	1054.9	941.4	819.9	780.5
30°	1089.0	1011.7	870.0	740.6	703.3
32.5°	1056.0	963.3	794.9	669.2	634.5
35°	1019.2	907.3	721.4	605.8	578.6
37.5°	977.1	846.1	653.2	554.6	537.0
40°	929.2	779.5	590.3	515.2	509.3
42.5°	877.5	714.5	536.5	489.6	495.0
45°	816.2	646.8	491.2	473.6	488.0
47.5°	751.8	580.7	454.5	464.6	485.4
50°	689.4	519.5	425.7	458.7	483.2
52.5°	612.2	464.6	402.8	453.4	480.0
55°	545.6	412.4	383.6	445.9	473.6
57.5°	468.8	365.5	366.6	436.3	464.1
60°	404.9	322.9	350.0	423.0	449.7
62.5°	339.9	284.5	331.9	405.4	429.4
65°	278.6	249.3	312.2	382.5	402.8
67.5°	227.5	217.4	289.8	354.8	371.9
70°	184.3	188.1	265.3	323.9	338.3
72.5°	141.7	160.9	238.7	290.9	303.2
75°	108.2	135.3	210.4	257.9	268.5
77.5°	79.9	112.9	184.9	228.0	237.1
80°	56.5	93.2	160.9	201.9	208.8
82.5°	37.8	76.7	141.2	178.5	184.9
85°	21.8	62.9	124.1	158.8	163.0
87.5°	9.1	52.2	110.3	138.5	140.7
90°	1.1	44.2	98.0	118.3	117.2
92.5°	1.1	40.0	87.4	99.1	96.4
95°	1.1	37.3	77.8	83.1	80.4
97.5°	1.1	35.7	69.3	71.4	68.7
100°	0.5	34.6	63.4	63.4	60.7
102.5°	0.5	33.6	59.1	57.5	55.4
105°	0.5	32.5	55.9	54.3	51.7
107.5°	0.5	32.0	53.8	52.2	49.5
110°	0.5	30.9	52.2	50.6	48.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.5	30.4	51.1	50.1	47.4
115°	0.5	29.3	49.5	49.0	47.4
117.5°	0.5	28.2	48.5	48.5	46.9
120°	0.5	27.2	46.9	48.0	46.4
122.5°	0.5	26.1	45.3	46.9	45.3
125°	0.5	25.0	43.7	45.8	44.8
127.5°	1.1	23.4	41.6	44.8	43.7
130°	0.5	21.8	39.4	43.7	43.2
132.5°	1.1	20.2	37.3	42.1	42.1
135°	1.1	18.6	34.6	40.5	40.5
137.5°	1.1	16.5	32.0	38.4	38.9
140°	1.1	14.9	29.3	36.2	37.3
142.5°	1.1	13.3	26.6	34.1	35.7
145°	1.1	11.7	24.0	31.4	33.6
147.5°	1.1	10.7	21.3	28.2	31.4
150°	1.1	9.1	19.2	25.6	28.8
152.5°	1.1	8.0	17.0	22.9	26.6
155°	1.1	7.5	14.9	19.7	24.0
157.5°	1.1	6.4	12.8	17.0	21.3
160°	1.1	5.3	10.7	14.9	18.1
162.5°	1.1	4.8	9.1	12.3	16.0
165°	1.1	4.3	7.5	9.6	12.8
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)