

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-L835-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-L835-CD1-U  
Description: 4FT LINEAR SNLED LED FIXTURE  
SQUARE NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

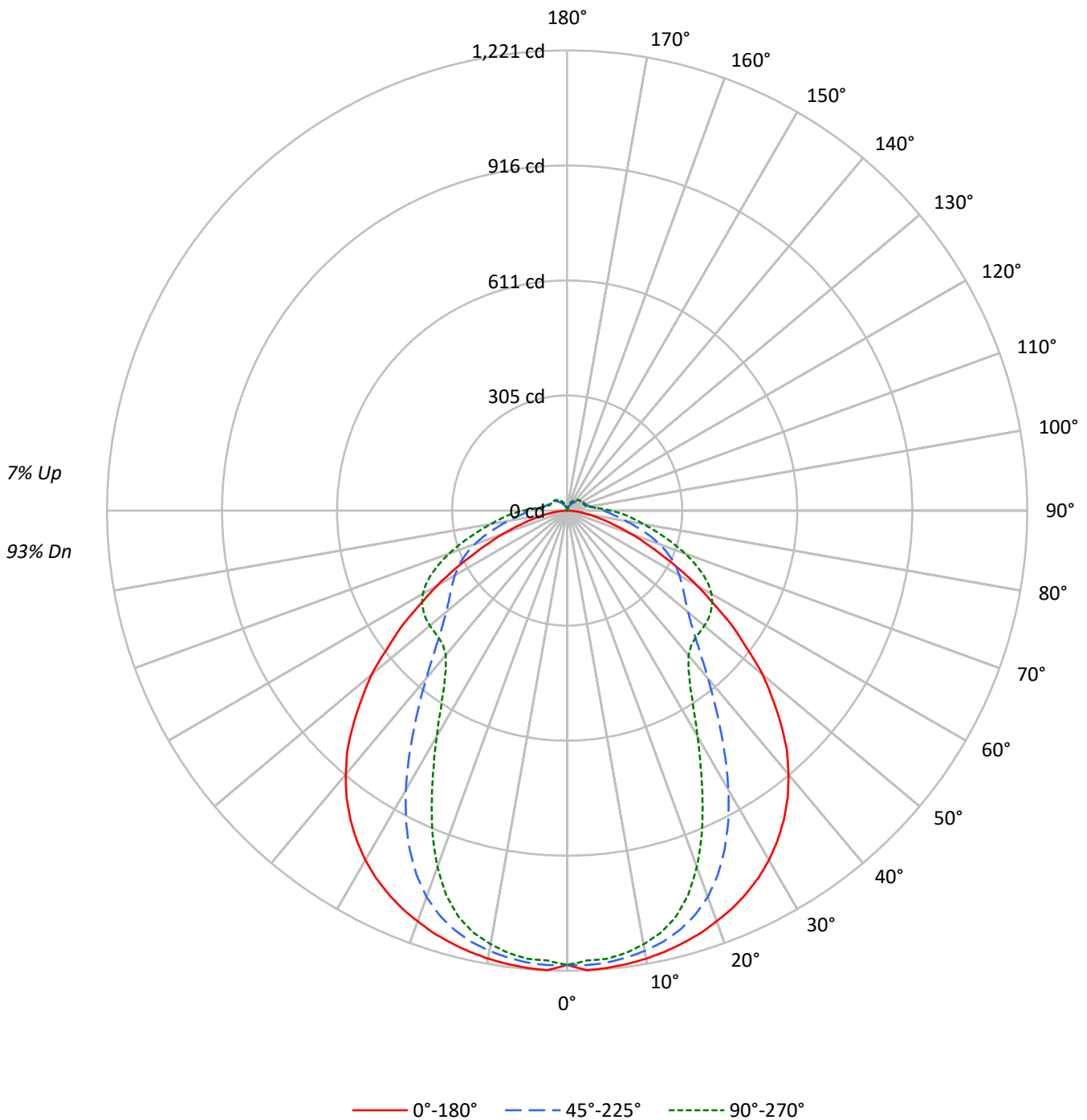
Lumens per Lamp: N/A  
Luminaire Lumens: 3032.0 lumens  
Efficiency: N/A  
Efficacy: 144.4 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 21  
Input Voltage (V): NR  
Input Current (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	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°	9742	9742	9742
5°	9855	9528	9378
10°	9852	9265	8992
15°	9855	8954	8479
20°	9859	8493	7615
25°	9863	7782	6449
30°	9817	6847	5304
35°	9676	5825	4445
40°	9393	4934	4018
45°	8895	4288	3988
50°	8218	3920	4128
55°	7236	3768	4272
60°	6105	3714	4331
65°	4910	3631	4196
70°	3945	3444	3870
75°	2975	3118	3434
80°	2194	2799	3055
85°	1469	2641	2809



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.1	3.8
10°-20°	322.4	10.6
20°-30°	450.7	14.9
30°-40°	467.5	15.4
40°-50°	431.9	14.2
50°-60°	385.6	12.7
60°-70°	312.5	10.3
70°-80°	207.8	6.9
80°-90°	119.0	3.9
90°-100°	65.8	2.2
100°-110°	44.6	1.5
110°-120°	37.1	1.2
120°-130°	30.2	1.0
130°-140°	21.8	0.7
140°-150°	13.1	0.4
150°-160°	6.3	0.2
160°-170°	1.6	0.1
170°-180°	0.0	0.0
0°-30°	887.1	29.3
0°-40°	1354.6	44.7
0°-60°	2172.1	71.6
0°-90°	2811.4	92.7
90°-120°	147.6	4.9
90°-150°	212.6	7.0
90°-180°	221.0	7.3
0°-180°	3032.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1206	1206	1206	1206	1206	
5°	1218	1198	1204	1196	1194	116
15°	1188	1163	1153	1126	1116	336
25°	1122	1073	990	886	850	517
35°	1002	892	709	596	569	625
45°	803	636	483	466	480	617
55°	536	406	377	439	466	477
65°	274	245	307	376	396	277
75°	106	133	207	254	264	117
85°	22	62	122	156	160	25
90°	1	44	96	116	115	2
95°	1	37	76	82	79	1
105°	0	32	55	53	51	1
115°	0	29	49	48	47	0
125°	0	25	43	45	44	1
135°	1	18	34	40	40	1
145°	1	12	24	31	33	1
155°	1	7	15	19	24	0
165°	1	4	7	9	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°	1205.6	1205.6	1205.6	1205.6	1205.6
2.5°	1220.8	1200.9	1207.2	1202.0	1195.2
5°	1218.2	1197.8	1204.1	1195.7	1194.1
7.5°	1213.5	1193.1	1196.7	1186.8	1184.2
10°	1207.2	1185.7	1186.3	1172.1	1168.4
12.5°	1198.8	1175.3	1172.1	1152.7	1147.5
15°	1187.8	1162.7	1152.7	1126.5	1115.5
17.5°	1175.8	1146.4	1126.0	1085.7	1068.4
20°	1159.5	1126.5	1090.9	1029.6	1006.5
22.5°	1143.3	1102.4	1045.3	963.6	932.7
25°	1122.3	1072.6	989.8	886.0	849.9
27.5°	1098.8	1037.5	925.8	806.4	767.6
30°	1071.0	995.0	855.6	728.3	691.6
32.5°	1038.5	947.3	781.8	658.1	624.0
35°	1002.3	892.3	709.4	595.7	569.0
37.5°	961.0	832.1	642.4	545.4	528.2
40°	913.8	766.6	580.6	506.7	500.9
42.5°	863.0	702.6	527.6	481.5	486.8
45°	802.7	636.1	483.1	465.8	480.0
47.5°	739.3	571.1	446.9	456.9	477.3
50°	678.0	510.9	418.6	451.1	475.2
52.5°	602.0	456.9	396.1	445.9	472.1
55°	536.5	405.5	377.3	438.6	465.8
57.5°	461.1	359.4	360.5	429.1	456.4
60°	398.2	317.5	344.2	416.0	442.2
62.5°	334.3	279.8	326.4	398.7	422.3
65°	274.0	245.2	307.0	376.2	396.1
67.5°	223.7	213.8	285.0	349.0	365.7
70°	181.3	185.0	260.9	318.6	332.7
72.5°	139.4	158.2	234.7	286.1	298.1
75°	106.4	133.1	207.0	253.6	264.1
77.5°	78.6	111.1	181.8	224.3	233.2
80°	55.5	91.7	158.2	198.6	205.4
82.5°	37.2	75.5	138.9	175.5	181.8
85°	21.5	61.8	122.1	156.1	160.3
87.5°	8.9	51.3	108.5	136.2	138.3
90°	1.0	43.5	96.4	116.3	115.3
92.5°	1.0	39.3	85.9	97.5	94.8
95°	1.0	36.7	76.5	81.7	79.1
97.5°	1.0	35.1	68.1	70.2	67.6
100°	0.5	34.1	62.4	62.4	59.7
102.5°	0.5	33.0	58.2	56.6	54.5
105°	0.5	32.0	55.0	53.4	50.8
107.5°	0.5	31.4	52.9	51.3	48.7
110°	0.5	30.4	51.3	49.8	47.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.5	29.9	50.3	49.3	46.6
115°	0.5	28.8	48.7	48.2	46.6
117.5°	0.5	27.8	47.7	47.7	46.1
120°	0.5	26.7	46.1	47.2	45.6
122.5°	0.5	25.7	44.5	46.1	44.5
125°	0.5	24.6	43.0	45.1	44.0
127.5°	1.0	23.1	40.9	44.0	43.0
130°	0.5	21.5	38.8	43.0	42.4
132.5°	1.0	19.9	36.7	41.4	41.4
135°	1.0	18.3	34.1	39.8	39.8
137.5°	1.0	16.2	31.4	37.7	38.2
140°	1.0	14.7	28.8	35.6	36.7
142.5°	1.0	13.1	26.2	33.5	35.1
145°	1.0	11.5	23.6	30.9	33.0
147.5°	1.0	10.5	21.0	27.8	30.9
150°	1.0	8.9	18.9	25.2	28.3
152.5°	1.0	7.9	16.8	22.5	26.2
155°	1.0	7.3	14.7	19.4	23.6
157.5°	1.0	6.3	12.6	16.8	21.0
160°	1.0	5.2	10.5	14.7	17.8
162.5°	1.0	4.7	8.9	12.1	15.7
165°	1.0	4.2	7.3	9.4	12.6
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)