

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: **2SNLED-LD5-22SL-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: 2SNLED-LD5-22SL-SLN-UNV-L850-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
SQUARE NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

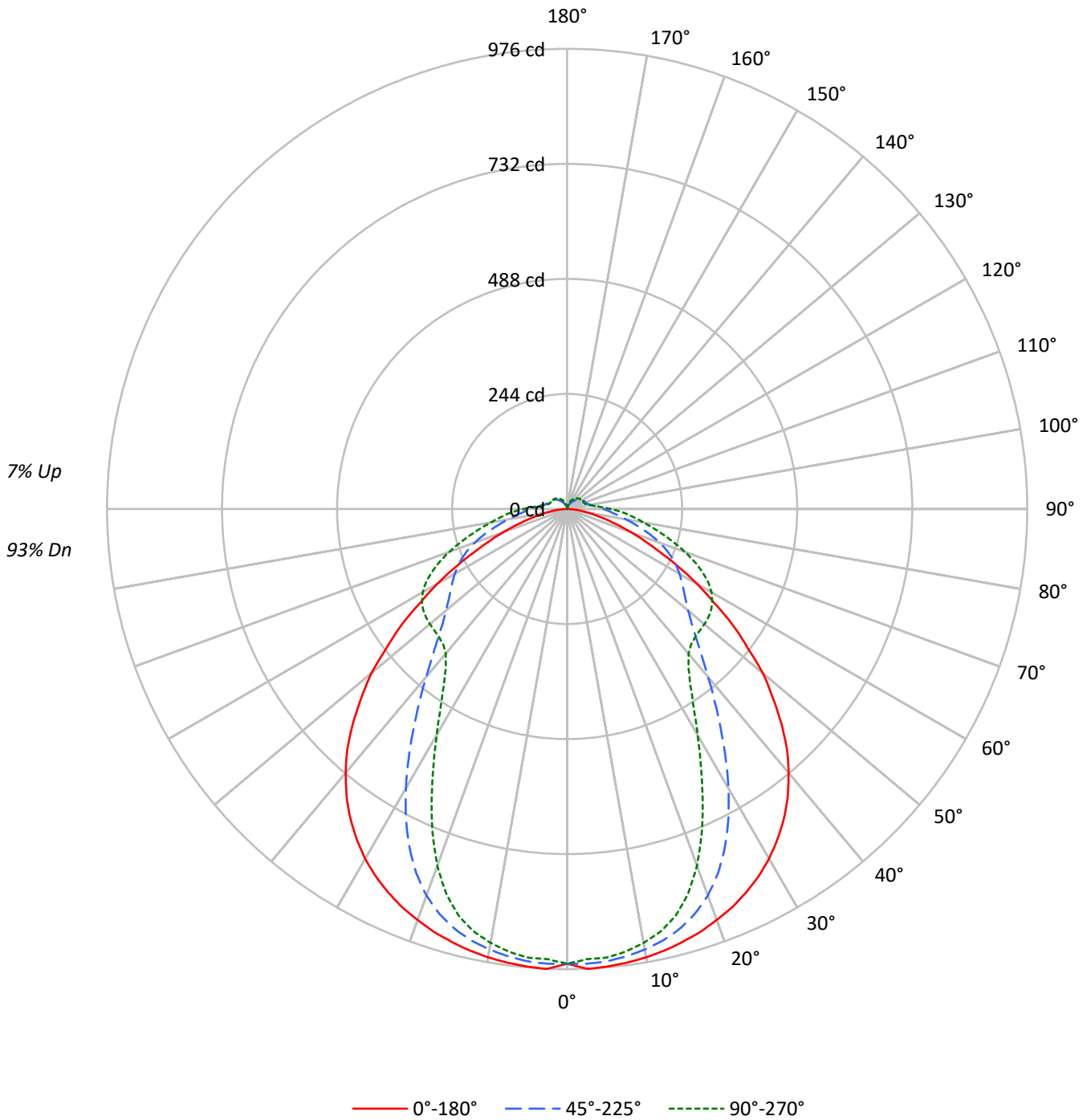
Lumens per Lamp: N/A
Luminaire Lumens: 2425.0 lumens
Efficiency: N/A
Efficacy: 134.7 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 0.96 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Direct

Input Watts (W): 18
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°	15585	15585	15585
5°	15721	15211	15003
10°	15672	14765	14384
15°	15634	14245	13564
20°	15596	13487	12181
25°	15553	12335	10315
30°	15429	10834	8485
35°	15154	9200	7110
40°	14652	7776	6427
45°	13811	6744	6380
50°	12690	6149	6603
55°	11100	5895	6835
60°	9290	5792	6928
65°	7392	5644	6712
70°	5848	5329	6190
75°	4309	4794	5493
80°	3051	4275	4887
85°	1860	3987	4494



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.2	3.8
10°-20°	257.9	10.6
20°-30°	360.5	14.9
30°-40°	373.9	15.4
40°-50°	345.4	14.2
50°-60°	308.4	12.7
60°-70°	249.9	10.3
70°-80°	166.2	6.9
80°-90°	95.2	3.9
90°-100°	52.7	2.2
100°-110°	35.7	1.5
110°-120°	29.7	1.2
120°-130°	24.1	1.0
130°-140°	17.4	0.7
140°-150°	10.5	0.4
150°-160°	5.0	0.2
160°-170°	1.3	0.1
170°-180°	0.0	0.0
0°-30°	709.5	29.3
0°-40°	1083.4	44.7
0°-60°	1737.2	71.6
0°-90°	2248.6	92.7
90°-120°	118.0	4.9
90°-150°	170.0	7.0
90°-180°	176.0	7.3
0°-180°	2425.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	964	964	964	964	964	
5°	974	958	963	956	955	93
15°	950	930	922	901	892	268
25°	898	858	792	709	680	414
35°	802	714	567	476	455	500
45°	642	509	386	373	384	494
55°	429	324	302	351	373	382
65°	219	196	246	301	317	222
75°	85	106	166	203	211	93
85°	17	50	98	125	128	20
90°	1	35	77	93	92	1
95°	1	29	61	65	63	1
105°	0	26	44	43	41	0
115°	0	23	39	39	37	0
125°	0	20	34	36	35	0
135°	1	15	27	32	32	1
145°	1	9	19	25	26	1
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°	964.3	964.3	964.3	964.3	964.3
2.5°	976.4	960.5	965.5	961.3	955.9
5°	974.3	958.0	963.0	956.3	955.1
7.5°	970.6	954.2	957.2	949.2	947.1
10°	965.5	948.4	948.8	937.5	934.5
12.5°	958.8	940.0	937.5	922.0	917.8
15°	950.0	929.9	922.0	901.0	892.2
17.5°	940.4	916.9	900.6	868.3	854.5
20°	927.4	901.0	872.5	823.5	805.0
22.5°	914.4	881.7	836.0	770.7	745.9
25°	897.6	857.8	791.6	708.6	679.7
27.5°	878.8	829.8	740.5	644.9	613.9
30°	856.6	795.8	684.3	582.5	553.2
32.5°	830.6	757.7	625.3	526.4	499.1
35°	801.7	713.7	567.4	476.5	455.1
37.5°	768.6	665.5	513.8	436.3	422.4
40°	730.9	613.1	464.3	405.2	400.6
42.5°	690.2	562.0	422.0	385.1	389.3
45°	642.0	508.7	386.4	372.6	383.9
47.5°	591.3	456.8	357.5	365.4	381.8
50°	542.3	408.6	334.8	360.8	380.1
52.5°	481.5	365.4	316.8	356.6	377.6
55°	429.1	324.4	301.7	350.8	372.6
57.5°	368.8	287.5	288.3	343.2	365.0
60°	318.5	254.0	275.3	332.7	353.7
62.5°	267.4	223.8	261.1	318.9	337.8
65°	219.2	196.1	245.6	300.9	316.8
67.5°	178.9	171.0	228.0	279.1	292.5
70°	145.0	147.9	208.7	254.8	266.1
72.5°	111.5	126.6	187.7	228.8	238.5
75°	85.1	106.4	165.5	202.8	211.2
77.5°	62.9	88.8	145.4	179.4	186.5
80°	44.4	73.3	126.6	158.8	164.3
82.5°	29.8	60.3	111.1	140.4	145.4
85°	17.2	49.5	97.6	124.9	128.2
87.5°	7.1	41.1	86.7	109.0	110.6
90°	0.8	34.8	77.1	93.0	92.2
92.5°	0.8	31.4	68.7	77.9	75.9
95°	0.8	29.3	61.2	65.4	63.3
97.5°	0.8	28.1	54.5	56.2	54.1
100°	0.4	27.2	49.9	49.9	47.8
102.5°	0.4	26.4	46.5	45.3	43.6
105°	0.4	25.6	44.0	42.7	40.6
107.5°	0.4	25.1	42.3	41.1	39.0
110°	0.4	24.3	41.1	39.8	38.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.4	23.9	40.2	39.4	37.3
115°	0.4	23.0	39.0	38.6	37.3
117.5°	0.4	22.2	38.1	38.1	36.9
120°	0.4	21.4	36.9	37.7	36.5
122.5°	0.4	20.5	35.6	36.9	35.6
125°	0.4	19.7	34.4	36.0	35.2
127.5°	0.8	18.4	32.7	35.2	34.4
130°	0.4	17.2	31.0	34.4	33.9
132.5°	0.8	15.9	29.3	33.1	33.1
135°	0.8	14.7	27.2	31.8	31.8
137.5°	0.8	13.0	25.1	30.2	30.6
140°	0.8	11.7	23.0	28.5	29.3
142.5°	0.8	10.5	21.0	26.8	28.1
145°	0.8	9.2	18.9	24.7	26.4
147.5°	0.8	8.4	16.8	22.2	24.7
150°	0.8	7.1	15.1	20.1	22.6
152.5°	0.8	6.3	13.4	18.0	21.0
155°	0.8	5.9	11.7	15.5	18.9
157.5°	0.8	5.0	10.1	13.4	16.8
160°	0.8	4.2	8.4	11.7	14.2
162.5°	0.8	3.8	7.1	9.6	12.6
165°	0.8	3.4	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)