

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-LD5-22SL-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-LD5-22SL-SLC-UNV-L850-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

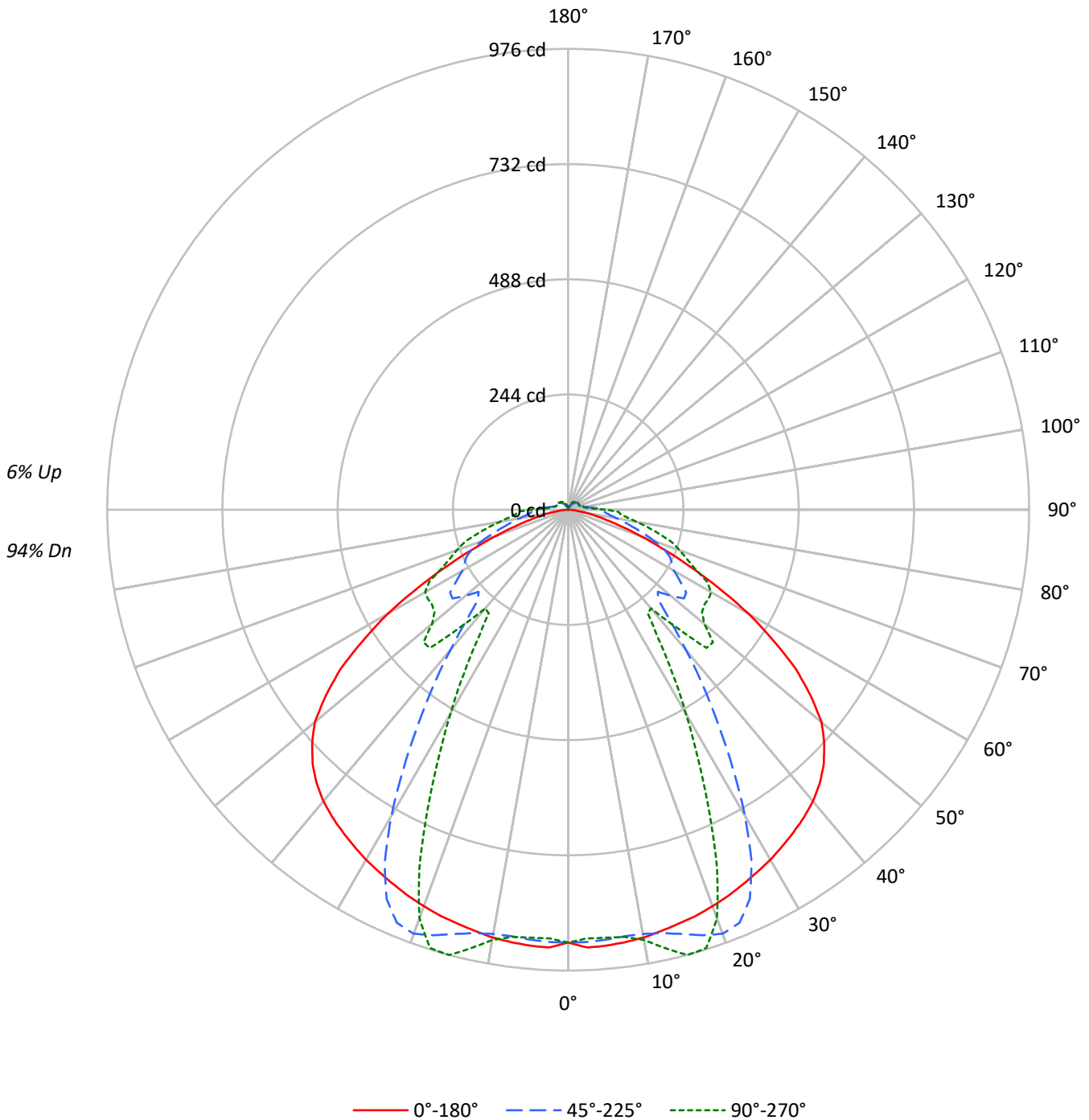
Lumens per Lamp: N/A
Luminaire Lumens: 2355.0 lumens
Efficiency: N/A
Efficacy: 147.2 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 16
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										
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	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						94														
1	107	102	98	94	104	99	95	92	94	91	88	89	87	84	85	83	81	78						78														
2	98	90	83	77	95	87	81	76	83	78	73	79	74	71	75	71	68	66						66														
3	89	79	71	65	87	77	70	64	73	67	62	70	65	60	67	62	59	56						56														
4	82	71	62	56	80	69	61	55	66	59	53	63	57	52	60	55	51	49						49														
5	76	63	55	48	74	62	54	48	59	52	47	57	51	46	54	49	45	43						43														
6	70	58	49	43	68	56	48	42	54	47	41	52	45	41	50	44	40	38						38														
7	66	52	44	38	64	51	43	38	49	42	37	47	41	36	46	40	36	34						34														
8	61	48	40	34	59	47	39	34	45	38	33	44	37	33	42	37	32	30						30														
9	57	44	36	31	56	44	36	31	42	35	30	41	34	30	39	34	29	28						28														
10	54	41	33	28	52	40	33	28	39	32	28	38	32	27	37	31	27	25						25														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7409	7409	7409
5°	7498	7235	7146
10°	7508	7125	7121
15°	7528	7225	7422
20°	7598	7440	6967
25°	7693	7151	5365
30°	7845	5989	3816
35°	8040	4535	2584
40°	8285	3297	2188
45°	8473	2392	3440
50°	8486	2649	3264
55°	7932	3048	3224
60°	6757	2789	3426
65°	5084	2813	3135
70°	3568	2561	2917
75°	2338	2145	2618
80°	1490	1838	2179
85°	806	1748	1956



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.2	3.7
10°-20°	263.4	11.2
20°-30°	382.6	16.2
30°-40°	365.6	15.5
40°-50°	334.4	14.2
50°-60°	308.8	13.1
60°-70°	245.3	10.4
70°-80°	151.4	6.4
80°-90°	82.4	3.5
90°-100°	41.7	1.8
100°-110°	26.2	1.1
110°-120°	22.2	0.9
120°-130°	18.1	0.8
130°-140°	13.0	0.6
140°-150°	8.0	0.3
150°-160°	3.8	0.2
160°-170°	1.0	0.0
170°-180°	0.0	0.0
0°-30°	733.2	31.1
0°-40°	1098.8	46.7
0°-60°	1742.0	74.0
0°-90°	2221.1	94.3
90°-120°	90.0	3.8
90°-150°	129.1	5.5
90°-180°	134.0	5.7
0°-180°	2355.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	917	917	917	917	917	
5°	927	913	914	910	910	88
15°	907	895	930	965	976	257
25°	875	892	910	770	707	405
35°	833	819	552	380	331	522
45°	765	533	270	344	414	588
55°	588	274	305	328	352	518
65°	284	177	238	289	296	287
75°	84	95	142	189	201	95
85°	12	40	81	110	112	15
90°	0	30	72	86	79	1
95°	0	28	50	44	42	0
105°	0	25	31	28	28	0
115°	0	21	30	26	25	0
125°	0	17	26	26	24	0
135°	0	12	21	23	22	0
145°	0	7	15	19	20	0
155°	1	4	9	12	14	0
165°	1	2	4	6	8	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	916.8	916.8	916.8	916.8	916.8
2.5°	928.1	914.7	916.4	913.5	908.7
5°	926.9	912.7	914.3	909.5	909.9
7.5°	923.7	909.1	911.1	910.3	912.3
10°	920.0	904.6	912.3	919.2	925.3
12.5°	913.5	899.7	918.4	938.7	951.3
15°	907.4	895.3	930.2	964.7	976.4
17.5°	901.4	893.6	944.8	974.8	973.2
20°	893.6	892.8	955.7	945.6	920.8
22.5°	885.1	893.2	947.2	872.9	824.2
25°	875.4	892.4	909.5	769.9	707.0
27.5°	865.6	888.8	840.9	657.0	595.0
30°	855.9	879.0	748.4	554.0	497.6
32.5°	844.5	857.9	647.7	462.7	410.7
35°	832.8	819.4	552.3	380.3	330.8
37.5°	820.6	763.8	466.7	308.0	276.4
40°	806.0	694.0	388.0	264.2	272.7
42.5°	787.7	615.2	318.6	277.2	336.4
45°	764.6	533.3	269.5	343.7	414.0
47.5°	735.4	454.5	257.3	393.7	415.6
50°	700.1	382.3	282.9	377.4	375.8
52.5°	646.5	322.2	308.8	344.1	357.1
55°	588.1	273.5	305.2	328.3	351.5
57.5°	514.2	240.7	280.0	325.1	351.9
60°	440.7	218.7	258.5	324.7	349.8
62.5°	359.6	198.9	247.6	317.0	332.0
65°	283.7	177.3	237.8	289.0	295.9
67.5°	217.5	155.4	220.8	257.7	271.5
70°	164.0	133.9	194.0	233.8	250.8
72.5°	118.1	113.6	166.4	212.7	230.5
75°	83.6	94.6	142.4	188.7	201.3
77.5°	57.6	77.1	122.2	162.3	172.5
80°	37.7	61.7	103.9	139.6	146.5
82.5°	22.7	49.5	90.1	122.2	125.8
85°	11.8	40.2	80.8	110.0	111.6
87.5°	3.7	33.7	75.5	104.3	106.3
90°	0.4	30.0	72.2	85.6	79.1
92.5°	0.0	28.4	62.5	58.4	52.4
95°	0.0	28.0	49.9	44.2	41.8
97.5°	0.0	27.2	41.0	36.9	35.7
100°	0.0	26.4	35.3	32.5	32.1
102.5°	0.0	26.0	32.1	29.6	29.2
105°	0.0	25.2	30.8	28.0	27.6
107.5°	0.0	23.9	30.0	27.2	26.4
110°	0.0	22.7	30.0	26.8	25.6



TEST NUMBER: P#

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	21.5	30.0	26.4	25.2
115°	0.0	20.7	29.6	26.4	25.2
117.5°	0.4	19.9	29.2	26.4	25.2
120°	0.0	19.1	28.4	26.4	24.8
122.5°	0.4	17.9	27.6	26.0	24.8
125°	0.4	16.6	26.4	25.6	24.4
127.5°	0.4	15.4	25.2	24.8	23.5
130°	0.4	14.2	23.9	24.4	23.1
132.5°	0.4	13.0	22.3	23.5	22.7
135°	0.4	11.8	21.1	23.1	22.3
137.5°	0.4	10.6	19.5	21.9	21.9
140°	0.4	9.3	17.9	21.1	21.5
142.5°	0.4	8.5	16.2	20.3	20.7
145°	0.4	7.3	14.6	18.7	19.9
147.5°	0.4	6.5	13.0	17.0	18.7
150°	0.4	5.7	11.4	15.4	17.0
152.5°	0.4	4.9	10.1	13.4	15.8
155°	0.8	4.5	8.9	11.8	14.2
157.5°	0.8	3.7	7.3	10.1	12.2
160°	0.8	3.2	6.5	8.5	11.0
162.5°	0.8	2.8	5.3	7.3	9.3
165°	0.8	2.4	4.5	5.7	7.7
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)