

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: P284536

Luminaire Tested: **4SNLED-LD5-15SL-SLW-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P284536
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P#)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-15SL-SLW-UNV-L840-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1573.0 lumens
Efficiency: N/A
Efficacy: 121.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

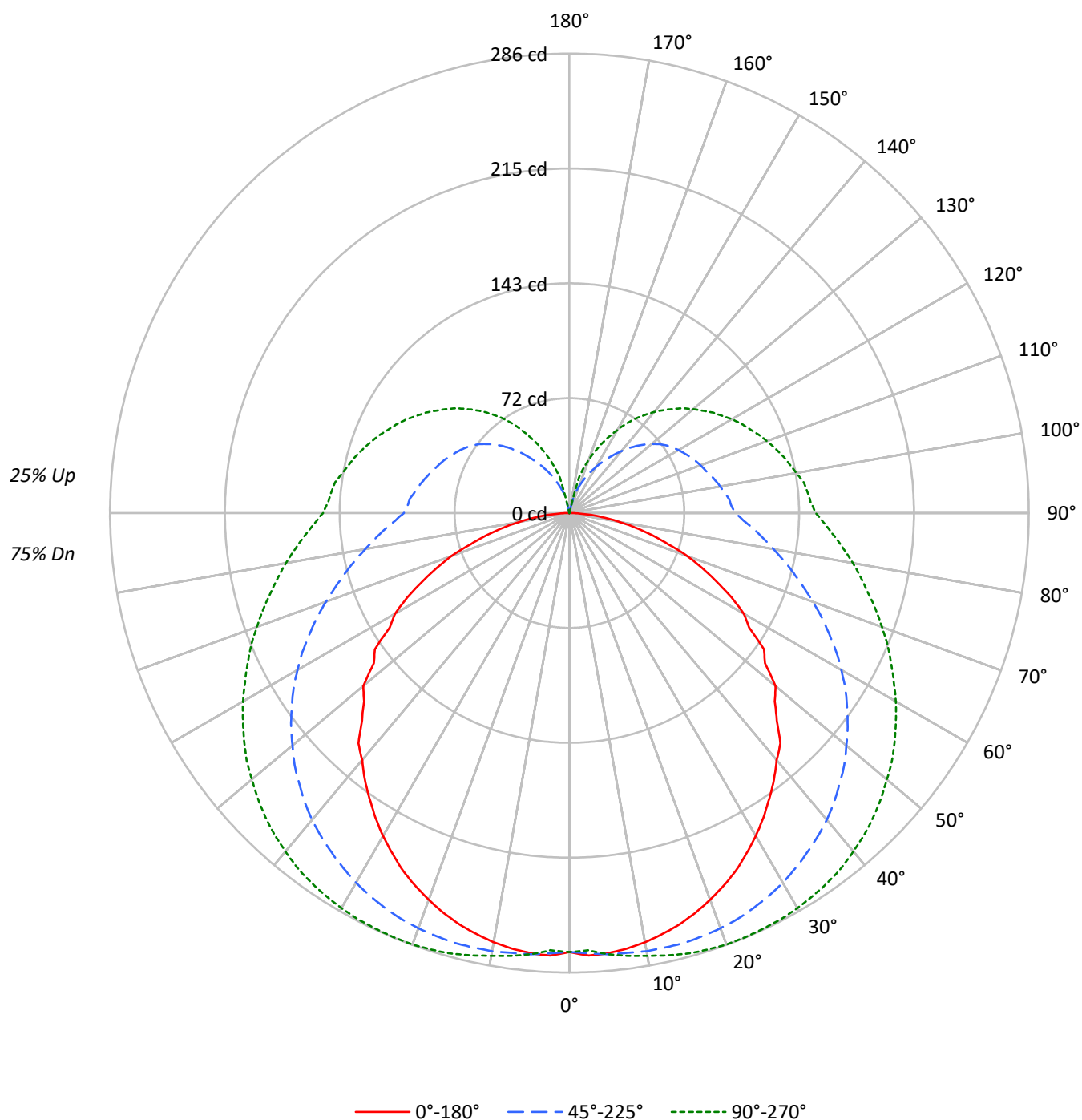
Input Watts (W): 13
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P284536

CATALOG NUMBER: 4SNLED-LD5-15SL-SLW-UNV-L840-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P284536

CATALOG NUMBER: 4SNLED-LD5-15SL-SLW-UNV-L840-CD1-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	113	113	113	113	107	107	107	107	97	97	97	88	88	88	79	79	79			75
1	100	94	89	84	95	89	84	80	80	76	73	72	69	66	64	62	60			56
2	90	80	72	66	85	76	69	63	68	63	58	61	57	53	55	51	48			44
3	81	69	60	53	76	66	58	51	59	53	47	53	48	43	47	43	39			36
4	74	61	51	44	69	58	49	43	52	45	39	47	41	36	42	37	33			30
5	67	54	44	37	63	51	43	36	46	39	33	42	35	31	37	32	28			25
6	62	48	39	32	58	46	37	31	41	34	29	37	31	27	34	28	24			22
7	57	43	34	28	54	41	33	27	37	30	25	34	28	23	30	25	21			19
8	53	39	31	25	50	37	29	24	34	27	22	31	25	21	28	23	19			17
9	49	36	27	22	47	34	26	21	31	24	20	28	23	18	26	21	17			15
10	46	33	25	20	44	31	24	19	29	22	18	26	21	16	24	19	15			13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2208	2208	2208
5°	2225	2182	2165
10°	2214	2163	2153
15°	2199	2151	2158
20°	2178	2141	2162
25°	2158	2133	2166
30°	2127	2126	2177
35°	2094	2119	2192
40°	2063	2118	2206
45°	2024	2113	2224
50°	2030	2108	2241
55°	1993	2108	2268
60°	1921	2109	2299
65°	1814	2111	2341
70°	1697	2128	2408
75°	1490	2176	2505
80°	1257	2282	2665
85°	936	2494	2902



TEST NUMBER: P284536

CATALOG NUMBER: 4SNLED-LD5-15SL-SLW-UNV-L840-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.3	1.7
10°-20°	77.8	4.9
20°-30°	123.7	7.9
30°-40°	158.7	10.1
40°-50°	179.2	11.4
50°-60°	182.9	11.6
60°-70°	169.4	10.8
70°-80°	143.5	9.1
80°-90°	114.5	7.3
90°-100°	97.2	6.2
100°-110°	86.6	5.5
110°-120°	73.8	4.7
120°-130°	58.6	3.7
130°-140°	41.6	2.6
140°-150°	24.8	1.6
150°-160°	11.6	0.7
160°-170°	2.8	0.2
170°-180°	0.0	0.0
0°-30°	227.8	14.5
0°-40°	386.5	24.6
0°-60°	748.6	47.6
0°-90°	1176.0	74.8
90°-120°	257.7	16.4
90°-150°	382.7	24.3
90°-180°	397.0	25.2
0°-180°	1573.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	273	273	273	273	273	
5°	275	273	276	276	276	26
15°	265	267	277	282	284	75
25°	246	254	271	281	285	113
35°	217	233	258	274	281	136
45°	183	207	238	259	268	142
55°	148	173	211	237	247	130
65°	101	135	178	209	221	100
75°	53	94	144	180	193	57
85°	14	61	115	153	166	15
90°	1	50	103	140	153	1
95°	0	47	100	136	149	0
105°	0	43	91	125	138	0
115°	0	40	83	113	124	0
125°	0	34	74	99	109	0
135°	0	26	59	84	92	0
145°	0	17	41	63	72	0
155°	0	10	26	38	48	0
165°	0	6	12	16	22	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P284536

CATALOG NUMBER: 4SNLED-LD5-15SL-SLW-UNV-L840-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	273.2	273.2	273.2	273.2	273.2
2.5°	275.7	272.8	274.3	273.9	272.4
5°	275.0	272.8	275.7	275.7	275.7
7.5°	273.5	272.0	276.1	277.6	278.0
10°	271.3	271.3	276.9	279.1	279.8
12.5°	268.3	269.4	276.9	280.2	282.0
15°	265.0	267.2	276.9	282.0	283.9
17.5°	260.9	264.6	276.1	282.4	285.0
20°	256.1	261.7	275.0	282.4	285.8
22.5°	251.0	258.0	273.5	281.7	285.8
25°	245.5	253.6	271.3	280.9	285.4
27.5°	238.8	249.2	268.7	279.8	285.0
30°	232.1	244.0	265.7	278.3	283.9
32.5°	224.7	238.4	262.0	276.1	282.4
35°	216.9	232.9	258.0	273.9	280.6
37.5°	209.2	226.2	253.9	270.9	278.3
40°	200.7	219.5	249.2	267.2	275.0
42.5°	194.4	212.6	244.0	263.5	271.7
45°	182.6	207.4	238.0	258.7	267.6
47.5°	173.4	197.4	232.1	253.9	263.1
50°	167.5	189.2	225.1	248.4	258.0
52.5°	153.4	183.7	218.4	242.9	253.2
55°	147.8	172.7	211.1	236.9	247.3
57.5°	132.7	164.9	203.7	230.3	241.0
60°	125.3	154.1	195.5	223.6	234.7
62.5°	113.8	144.9	187.4	216.2	227.7
65°	101.2	135.0	178.5	209.2	221.0
67.5°	89.5	125.0	170.1	201.8	214.4
70°	78.0	114.6	161.2	194.4	207.0
72.5°	64.6	104.2	152.6	187.4	200.0
75°	53.3	94.3	144.5	180.0	192.6
77.5°	42.1	84.7	136.7	173.4	185.9
80°	31.8	75.4	129.0	166.4	179.2
82.5°	22.1	67.6	122.0	159.7	172.3
85°	13.7	60.6	115.3	152.6	165.6
87.5°	6.3	54.4	108.6	146.0	159.3
90°	0.7	49.6	103.1	140.4	153.4
92.5°	0.4	48.1	100.9	137.8	150.4
95°	0.0	46.6	99.8	136.4	148.9
97.5°	0.0	45.1	97.3	134.2	147.1
100°	0.0	44.4	95.4	130.9	143.4
102.5°	0.0	43.3	93.2	127.9	140.4
105°	0.0	42.9	91.0	125.3	137.5
107.5°	0.0	42.1	88.7	122.0	134.2
110°	0.0	41.4	86.9	119.0	130.9



TEST NUMBER: P284536

CATALOG NUMBER: 4SNLED-LD5-15SL-SLW-UNV-L840-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	40.7	85.0	116.1	127.5
115°	0.0	39.9	82.8	112.7	123.8
117.5°	0.0	38.8	80.6	109.4	120.5
120°	0.0	37.3	78.4	106.4	116.8
122.5°	0.0	35.8	76.1	102.7	112.7
125°	0.0	34.4	73.5	99.4	109.0
127.5°	0.0	32.1	70.6	95.8	104.6
130°	0.0	29.9	66.9	92.1	100.5
132.5°	0.4	27.7	63.2	88.0	96.5
135°	0.0	25.5	59.1	83.9	91.7
137.5°	0.0	23.6	54.7	79.5	86.9
140°	0.0	21.4	50.3	74.3	82.1
142.5°	0.0	18.9	45.9	68.7	76.9
145°	0.0	16.7	41.4	62.8	71.7
147.5°	0.4	14.8	37.3	56.6	66.1
150°	0.4	13.3	33.3	50.3	59.8
152.5°	0.4	11.9	29.2	44.4	53.6
155°	0.4	10.4	25.5	38.4	47.7
157.5°	0.4	8.9	21.4	32.5	41.4
160°	0.4	7.8	17.8	27.3	35.5
162.5°	0.4	6.7	14.5	21.4	29.2
165°	0.4	5.6	11.5	15.9	22.5
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)