

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: P284538

Luminaire Tested: **4SNLED-LD5-22SL-SLW-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P284538
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-LD5-22SL-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: 2246.0 lumens
Efficiency: N/A
Efficacy: 124.8 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

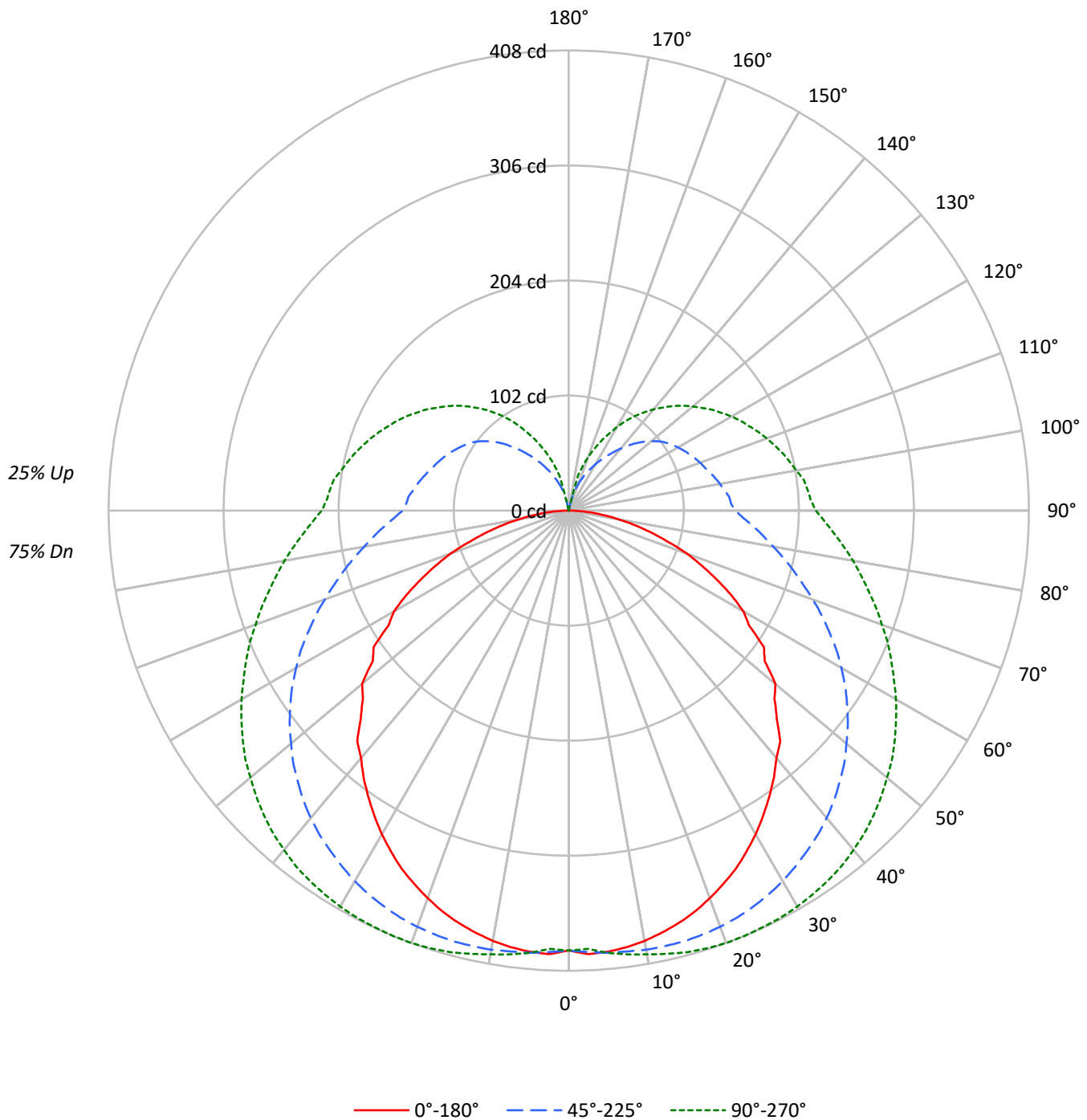
Input Watts (W): 18
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P284538

CATALOG NUMBER: 4SNLED-LD5-22SL-SLW-UNV-L840-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P284538

CATALOG NUMBER: 4SNLED-LD5-22SL-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°	3152	3152	3152
5°	3177	3114	3091
10°	3161	3088	3075
15°	3139	3071	3081
20°	3110	3057	3087
25°	3080	3046	3092
30°	3038	3036	3108
35°	2991	3025	3129
40°	2945	3024	3150
45°	2890	3016	3175
50°	2898	3009	3200
55°	2847	3010	3239
60°	2743	3011	3282
65°	2591	3015	3343
70°	2424	3039	3437
75°	2128	3109	3576
80°	1795	3257	3806
85°	1332	3560	4143



TEST NUMBER: P284538

CATALOG NUMBER: 4SNLED-LD5-22SL-SLW-UNV-L840-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.5	1.7
10°-20°	111.1	4.9
20°-30°	176.6	7.9
30°-40°	226.6	10.1
40°-50°	255.9	11.4
50°-60°	261.1	11.6
60°-70°	241.9	10.8
70°-80°	204.8	9.1
80°-90°	163.5	7.3
90°-100°	138.9	6.2
100°-110°	123.7	5.5
110°-120°	105.3	4.7
120°-130°	83.7	3.7
130°-140°	59.4	2.6
140°-150°	35.4	1.6
150°-160°	16.5	0.7
160°-170°	3.9	0.2
170°-180°	0.0	0.0
0°-30°	325.2	14.5
0°-40°	551.8	24.6
0°-60°	1068.9	47.6
0°-90°	1679.2	74.8
90°-120°	367.9	16.4
90°-150°	546.4	24.3
90°-180°	567.0	25.2
0°-180°	2246.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	390	390	390	390	390	
5°	393	390	394	394	394	37
15°	378	382	395	403	405	107
25°	350	362	387	401	408	161
35°	310	333	368	391	401	194
45°	261	296	340	369	382	202
55°	211	246	301	338	353	185
65°	145	193	255	299	316	144
75°	76	135	206	257	275	81
85°	20	87	165	218	236	21
90°	1	71	147	200	219	2
95°	0	66	143	195	213	0
105°	0	61	130	179	196	0
115°	0	57	118	161	177	0
125°	0	49	105	142	156	0
135°	0	36	84	120	131	0
145°	0	24	59	90	102	0
155°	1	15	36	55	68	0
165°	1	8	16	23	32	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P284538

CATALOG NUMBER: 4SNLED-LD5-22SL-SLW-UNV-L840-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	390.1	390.1	390.1	390.1	390.1
2.5°	393.6	389.5	391.7	391.1	388.9
5°	392.7	389.5	393.6	393.6	393.6
7.5°	390.5	388.4	394.2	396.4	396.9
10°	387.4	387.4	395.4	398.5	399.5
12.5°	383.1	384.7	395.4	400.1	402.6
15°	378.4	381.5	395.4	402.6	405.3
17.5°	372.6	377.8	394.2	403.2	406.9
20°	365.7	373.7	392.7	403.2	408.0
22.5°	358.3	368.4	390.5	402.2	408.0
25°	350.5	362.0	387.4	401.1	407.5
27.5°	341.0	355.8	383.7	399.5	406.9
30°	331.4	348.4	379.4	397.4	405.3
32.5°	320.9	340.4	374.1	394.2	403.2
35°	309.8	332.6	368.4	391.1	400.6
37.5°	298.7	323.0	362.6	386.8	397.4
40°	286.5	313.5	355.8	381.5	392.7
42.5°	277.6	303.5	348.4	376.3	388.0
45°	260.8	296.1	339.8	369.4	382.1
47.5°	247.5	281.8	331.4	362.6	375.7
50°	239.1	270.2	321.4	354.6	368.4
52.5°	219.0	262.3	311.9	346.8	361.5
55°	211.1	246.5	301.4	338.2	353.1
57.5°	189.4	235.4	290.8	328.8	344.1
60°	178.9	220.0	279.1	319.3	335.1
62.5°	162.5	206.9	267.6	308.8	325.1
65°	144.6	192.7	254.9	298.7	315.6
67.5°	127.8	178.5	242.8	288.1	306.1
70°	111.4	163.6	230.2	277.6	295.5
72.5°	92.3	148.8	217.9	267.6	285.6
75°	76.1	134.6	206.4	257.1	275.0
77.5°	60.1	120.9	195.3	247.5	265.5
80°	45.4	107.7	184.1	237.6	255.9
82.5°	31.6	96.6	174.2	228.0	246.0
85°	19.5	86.6	164.6	217.9	236.4
87.5°	9.0	77.6	155.1	208.5	227.4
90°	1.0	70.8	147.3	200.5	219.0
92.5°	0.6	68.6	144.1	196.8	214.8
95°	0.0	66.5	142.6	194.7	212.6
97.5°	0.0	64.4	138.9	191.6	210.1
100°	0.0	63.4	136.2	186.9	204.8
102.5°	0.0	61.8	133.0	182.6	200.5
105°	0.0	61.2	129.9	178.9	196.4
107.5°	0.0	60.1	126.6	174.2	191.6
110°	0.0	59.1	124.0	169.9	186.9



TEST NUMBER: P284538

CATALOG NUMBER: 4SNLED-LD5-22SL-SLW-UNV-L840-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	58.1	121.3	165.8	182.0
115°	0.0	57.0	118.2	160.9	176.7
117.5°	0.0	55.4	115.1	156.2	172.0
120°	0.0	53.3	111.9	152.0	166.8
122.5°	0.0	51.1	108.7	146.7	160.9
125°	0.0	49.1	105.0	142.0	155.7
127.5°	0.0	45.9	100.8	136.7	149.4
130°	0.0	42.7	95.6	131.5	143.6
132.5°	0.6	39.6	90.3	125.6	137.7
135°	0.0	36.5	84.5	119.8	130.9
137.5°	0.0	33.8	78.0	113.5	124.0
140°	0.0	30.6	71.8	106.1	117.2
142.5°	0.0	26.9	65.5	98.1	109.8
145°	0.0	23.8	59.1	89.7	102.4
147.5°	0.6	21.1	53.3	80.8	94.4
150°	0.6	18.9	47.6	71.8	85.5
152.5°	0.6	16.9	41.7	63.4	76.5
155°	0.6	14.8	36.5	54.8	68.1
157.5°	0.6	12.7	30.6	46.4	59.1
160°	0.6	11.1	25.4	39.0	50.7
162.5°	0.6	9.5	20.7	30.6	41.7
165°	0.6	8.0	16.4	22.6	32.2
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)