

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: P284499

Luminaire Tested: **4SNLED-LD5-22SL-SLW-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P284499
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-L835-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2209.0 lumens
Efficiency: N/A
Efficacy: 122.7 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

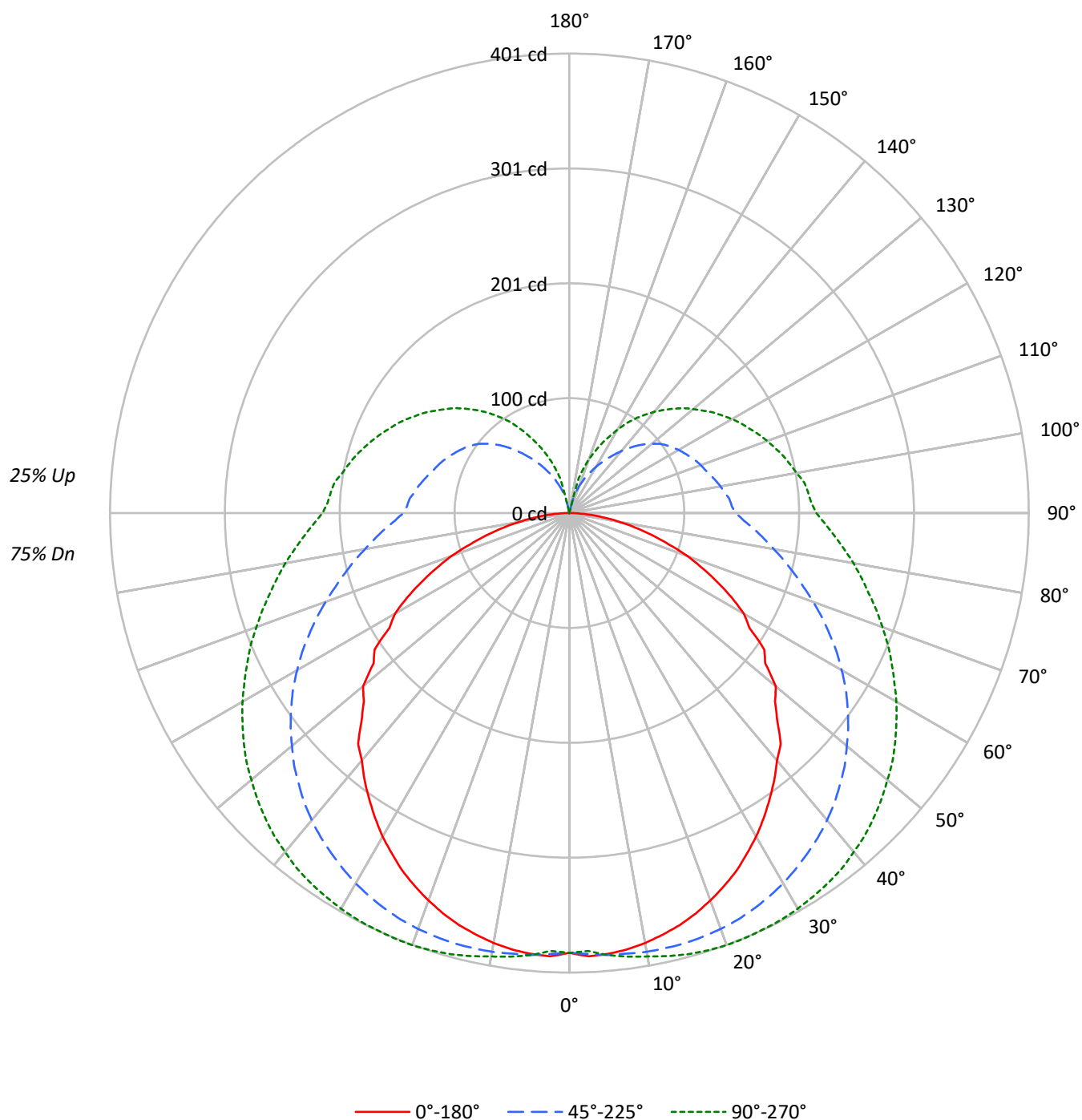
Input Watts (W): 18
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P284499

CATALOG NUMBER: 4SNLED-LD5-22SL-SLW-UNV-L835-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P284499

CATALOG NUMBER: 4SNLED-LD5-22SL-SLW-UNV-L835-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°	3101	3101	3101
5°	3124	3064	3041
10°	3109	3036	3024
15°	3088	3020	3030
20°	3059	3007	3036
25°	3029	2996	3041
30°	2988	2987	3057
35°	2942	2976	3078
40°	2897	2974	3098
45°	2843	2966	3123
50°	2851	2960	3148
55°	2800	2960	3184
60°	2697	2962	3228
65°	2548	2965	3288
70°	2383	2988	3381
75°	2092	3057	3518
80°	1767	3204	3744
85°	1312	3502	4075



TEST NUMBER: P284499

CATALOG NUMBER: 4SNLED-LD5-22SL-SLW-UNV-L835-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.9	1.7
10°-20°	109.3	4.9
20°-30°	173.7	7.9
30°-40°	222.9	10.1
40°-50°	251.7	11.4
50°-60°	256.8	11.6
60°-70°	237.9	10.8
70°-80°	201.4	9.1
80°-90°	160.8	7.3
90°-100°	136.6	6.2
100°-110°	121.6	5.5
110°-120°	103.6	4.7
120°-130°	82.3	3.7
130°-140°	58.4	2.6
140°-150°	34.9	1.6
150°-160°	16.3	0.7
160°-170°	3.9	0.2
170°-180°	0.0	0.0
0°-30°	319.8	14.5
0°-40°	542.7	24.6
0°-60°	1051.3	47.6
0°-90°	1651.5	74.8
90°-120°	361.8	16.4
90°-150°	537.4	24.3
90°-180°	557.0	25.2
0°-180°	2209.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	384	384	384	384	384	
5°	386	383	387	387	387	37
15°	372	375	389	396	399	105
25°	345	356	381	394	401	159
35°	305	327	362	385	394	191
45°	256	291	334	363	376	199
55°	208	242	296	333	347	182
65°	142	190	251	294	310	141
75°	75	132	203	253	270	80
85°	19	85	162	214	232	21
90°	1	70	145	197	215	2
95°	0	65	140	192	209	0
105°	0	60	128	176	193	0
115°	0	56	116	158	174	0
125°	0	48	103	140	153	0
135°	0	36	83	118	129	0
145°	0	23	58	88	101	0
155°	1	15	36	54	67	0
165°	1	8	16	22	32	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P284499

CATALOG NUMBER: 4SNLED-LD5-22SL-SLW-UNV-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	383.7	383.7	383.7	383.7	383.7
2.5°	387.2	383.1	385.2	384.6	382.5
5°	386.2	383.1	387.2	387.2	387.2
7.5°	384.1	382.0	387.7	389.8	390.4
10°	381.0	381.0	388.8	391.9	392.9
12.5°	376.8	378.3	388.8	393.5	396.0
15°	372.2	375.3	388.8	396.0	398.6
17.5°	366.4	371.6	387.7	396.5	400.2
20°	359.7	367.6	386.2	396.5	401.3
22.5°	352.4	362.4	384.1	395.6	401.3
25°	344.7	356.1	381.0	394.4	400.8
27.5°	335.3	349.9	377.4	392.9	400.2
30°	326.0	342.6	373.2	390.8	398.6
32.5°	315.6	334.8	368.0	387.7	396.5
35°	304.7	327.1	362.4	384.6	394.0
37.5°	293.7	317.7	356.6	380.4	390.8
40°	281.8	308.3	349.9	375.3	386.2
42.5°	273.0	298.5	342.6	370.1	381.6
45°	256.5	291.2	334.2	363.4	375.8
47.5°	243.4	277.2	326.0	356.6	369.5
50°	235.2	265.7	316.1	348.8	362.4
52.5°	215.4	258.0	306.8	341.1	355.5
55°	207.6	242.5	296.4	332.7	347.2
57.5°	186.3	231.5	286.0	323.4	338.4
60°	175.9	216.4	274.5	314.0	329.6
62.5°	159.8	203.5	263.2	303.7	319.8
65°	142.2	189.5	250.7	293.7	310.4
67.5°	125.6	175.5	238.8	283.4	301.0
70°	109.5	160.9	226.4	273.0	290.7
72.5°	90.8	146.4	214.3	263.2	280.8
75°	74.8	132.4	203.0	252.8	270.5
77.5°	59.1	118.9	192.0	243.4	261.1
80°	44.7	105.9	181.1	233.6	251.7
82.5°	31.1	95.0	171.3	224.3	241.9
85°	19.2	85.2	161.9	214.3	232.5
87.5°	8.8	76.3	152.5	205.1	223.7
90°	1.0	69.6	144.8	197.2	215.4
92.5°	0.6	67.5	141.8	193.6	211.2
95°	0.0	65.4	140.2	191.5	209.1
97.5°	0.0	63.3	136.6	188.4	206.6
100°	0.0	62.3	133.9	183.8	201.4
102.5°	0.0	60.8	130.8	179.6	197.2
105°	0.0	60.2	127.7	175.9	193.2
107.5°	0.0	59.1	124.5	171.3	188.4
110°	0.0	58.1	122.0	167.1	183.8



TEST NUMBER: P284499

CATALOG NUMBER: 4SNLED-LD5-22SL-SLW-UNV-L835-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	57.2	119.3	163.0	179.0
115°	0.0	56.0	116.3	158.3	173.8
117.5°	0.0	54.5	113.2	153.7	169.2
120°	0.0	52.4	110.1	149.5	164.0
122.5°	0.0	50.3	106.9	144.3	158.3
125°	0.0	48.3	103.2	139.7	153.1
127.5°	0.0	45.1	99.2	134.5	146.9
130°	0.0	42.0	94.0	129.3	141.2
132.5°	0.6	38.9	88.8	123.5	135.5
135°	0.0	35.9	83.1	117.8	128.7
137.5°	0.0	33.2	76.8	111.6	122.0
140°	0.0	30.1	70.6	104.4	115.3
142.5°	0.0	26.5	64.4	96.5	108.0
145°	0.0	23.4	58.1	88.2	100.7
147.5°	0.6	20.7	52.4	79.4	92.9
150°	0.6	18.6	46.8	70.6	84.0
152.5°	0.6	16.7	41.0	62.3	75.2
155°	0.6	14.6	35.9	53.9	67.0
157.5°	0.6	12.5	30.1	45.7	58.1
160°	0.6	10.9	24.9	38.4	49.9
162.5°	0.6	9.4	20.3	30.1	41.0
165°	0.6	7.8	16.1	22.3	31.7
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)