

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: P284662

Luminaire Tested: **4SNLED-LD5-45SL-SLW-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P284662
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-LD5-45SL-SLW-UNV-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3766.0 lumens
Efficiency: N/A
Efficacy: 91.9 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

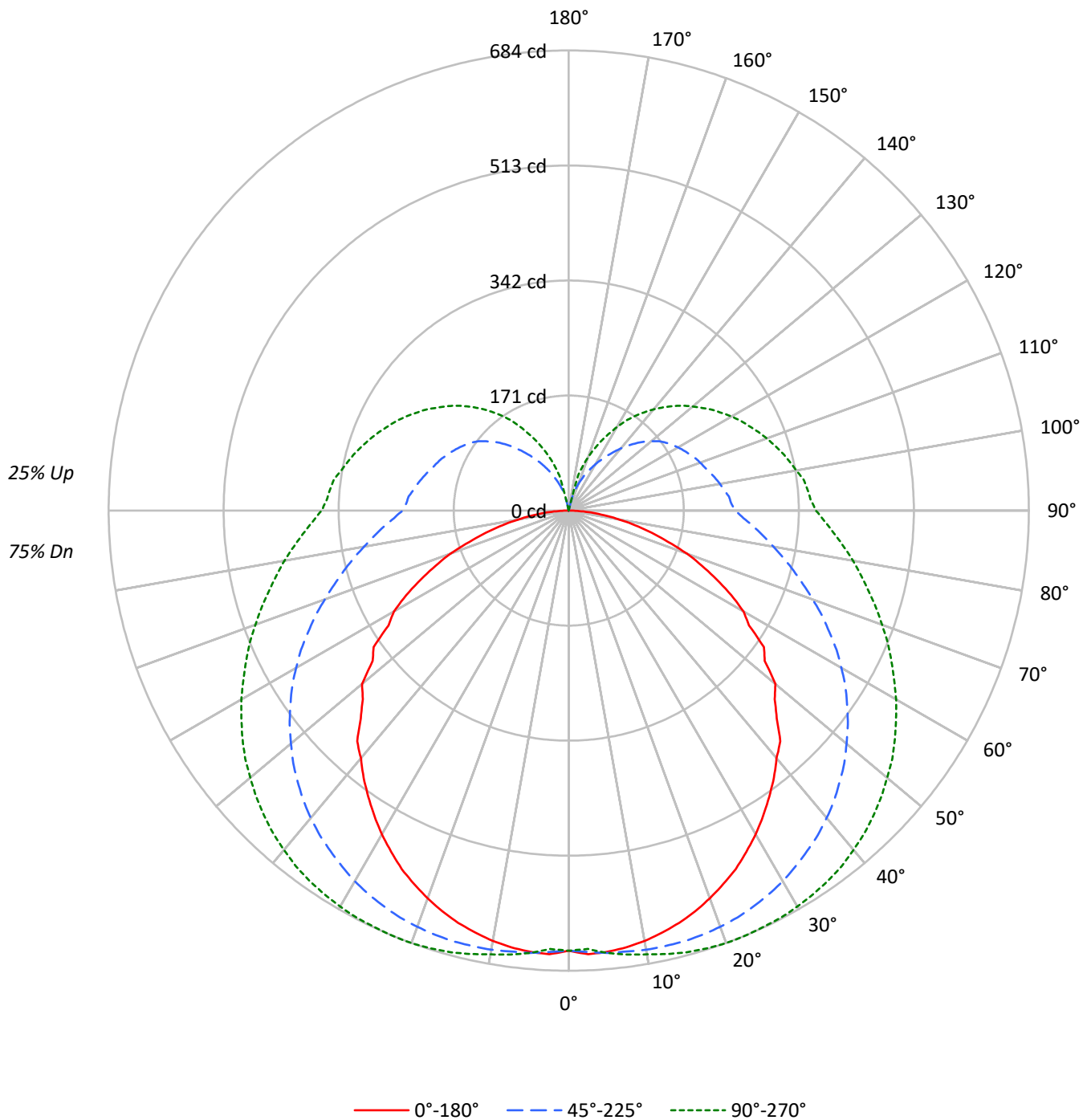
Input Watts (W): 41
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P284662

CATALOG NUMBER: 4SNLED-LD5-45SL-SLW-UNV-L935-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P284662

CATALOG NUMBER: 4SNLED-LD5-45SL-SLW-UNV-L935-CD1-U

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
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°	5286	5286	5286
5°	5326	5223	5184
10°	5300	5177	5155
15°	5264	5149	5166
20°	5214	5126	5177
25°	5165	5107	5184
30°	5093	5091	5212
35°	5014	5073	5248
40°	4939	5069	5282
45°	4845	5058	5324
50°	4860	5047	5366
55°	4773	5047	5430
60°	4598	5050	5503
65°	4344	5057	5606
70°	4062	5094	5763
75°	3565	5211	5996
80°	3012	5463	6382
85°	2234	5972	6947



TEST NUMBER: P284662

CATALOG NUMBER: 4SNLED-LD5-45SL-SLW-UNV-L935-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.9	1.7
10°-20°	186.3	4.9
20°-30°	296.1	7.9
30°-40°	380.0	10.1
40°-50°	429.1	11.4
50°-60°	437.9	11.6
60°-70°	405.7	10.8
70°-80°	343.4	9.1
80°-90°	274.1	7.3
90°-100°	232.8	6.2
100°-110°	207.4	5.5
110°-120°	176.7	4.7
120°-130°	140.3	3.7
130°-140°	99.5	2.6
140°-150°	59.4	1.6
150°-160°	27.7	0.7
160°-170°	6.6	0.2
170°-180°	0.0	0.0
0°-30°	545.3	14.5
0°-40°	925.3	24.6
0°-60°	1792.3	47.6
0°-90°	2815.6	74.8
90°-120°	616.8	16.4
90°-150°	916.1	24.3
90°-180°	950.0	25.2
0°-180°	3766.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	654	654	654	654	654	
5°	658	653	660	660	660	63
15°	634	640	663	675	680	179
25°	588	607	650	672	683	271
35°	519	558	618	656	672	325
45°	437	496	570	620	641	340
55°	354	413	505	567	592	311
65°	242	323	428	501	529	241
75°	128	226	346	431	461	136
85°	33	145	276	365	396	36
90°	2	119	247	336	367	3
95°	0	112	239	326	356	0
105°	0	103	218	300	329	0
115°	0	96	198	270	296	0
125°	0	82	176	238	261	0
135°	0	61	142	201	220	0
145°	0	40	99	150	172	0
155°	1	25	61	92	114	0
165°	1	13	28	38	54	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P284662

CATALOG NUMBER: 4SNLED-LD5-45SL-SLW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	654.1	654.1	654.1	654.1	654.1
2.5°	660.1	653.1	656.7	655.8	652.2
5°	658.4	653.1	660.1	660.1	660.1
7.5°	654.8	651.2	661.0	664.6	665.5
10°	649.5	649.5	662.9	668.2	669.8
12.5°	642.4	645.0	662.9	670.8	675.1
15°	634.5	639.8	662.9	675.1	679.6
17.5°	624.7	633.5	661.0	676.1	682.3
20°	613.2	626.6	658.4	676.1	684.2
22.5°	600.8	617.8	654.8	674.4	684.2
25°	587.7	607.0	649.5	672.5	683.2
27.5°	571.7	596.5	643.3	669.8	682.3
30°	555.7	584.1	636.2	666.3	679.6
32.5°	538.0	570.7	627.3	661.0	676.1
35°	519.4	557.6	617.8	655.8	671.8
37.5°	500.8	541.6	608.0	648.6	666.3
40°	480.5	525.6	596.5	639.8	658.4
42.5°	465.4	508.9	584.1	630.9	650.5
45°	437.2	496.5	569.8	619.5	640.7
47.5°	415.0	472.6	555.7	608.0	630.0
50°	401.0	453.0	539.0	594.6	617.8
52.5°	367.3	439.9	523.0	581.5	606.1
55°	353.9	413.4	505.3	567.2	592.0
57.5°	317.6	394.7	487.6	551.4	576.9
60°	299.9	369.0	468.1	535.4	561.9
62.5°	272.5	347.0	448.7	517.7	545.2
65°	242.4	323.1	427.5	500.8	529.2
67.5°	214.2	299.2	407.2	483.1	513.2
70°	186.7	274.4	385.9	465.4	495.5
72.5°	154.7	249.5	365.4	448.7	478.8
75°	127.5	225.7	346.0	431.0	461.1
77.5°	100.8	202.7	327.4	415.0	445.1
80°	76.2	180.5	308.8	398.3	429.1
82.5°	53.0	161.9	292.1	382.3	412.4
85°	32.7	145.2	276.1	365.4	396.4
87.5°	15.0	130.1	260.1	349.6	381.4
90°	1.7	118.7	246.9	336.2	367.3
92.5°	1.0	115.1	241.7	330.0	360.1
95°	0.0	111.5	239.0	326.4	356.5
97.5°	0.0	107.9	232.8	321.2	352.2
100°	0.0	106.3	228.3	313.3	343.4
102.5°	0.0	103.6	223.0	306.1	336.2
105°	0.0	102.7	217.8	299.9	329.3
107.5°	0.0	100.8	212.3	292.1	321.2
110°	0.0	99.1	208.0	284.9	313.3



TEST NUMBER: P284662

CATALOG NUMBER: 4SNLED-LD5-45SL-SLW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	97.4	203.5	278.0	305.2
115°	0.0	95.5	198.2	269.8	296.4
117.5°	0.0	92.9	193.0	262.0	288.5
120°	0.0	89.3	187.7	254.8	279.6
122.5°	0.0	85.7	182.2	246.0	269.8
125°	0.0	82.4	176.0	238.1	261.0
127.5°	0.0	76.9	169.1	229.3	250.5
130°	0.0	71.6	160.2	220.4	240.7
132.5°	1.0	66.4	151.4	210.6	230.9
135°	0.0	61.1	141.6	200.8	219.5
137.5°	0.0	56.6	130.9	190.3	208.0
140°	0.0	51.3	120.4	177.9	196.5
142.5°	0.0	45.1	109.8	164.5	184.1
145°	0.0	39.9	99.1	150.4	171.7
147.5°	1.0	35.3	89.3	135.4	158.3
150°	1.0	31.8	79.8	120.4	143.3
152.5°	1.0	28.4	70.0	106.3	128.2
155°	1.0	24.8	61.1	91.9	114.1
157.5°	1.0	21.3	51.3	77.8	99.1
160°	1.0	18.6	42.5	65.4	85.0
162.5°	1.0	16.0	34.6	51.3	70.0
165°	1.0	13.4	27.5	38.0	54.0
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)