

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P1214167

Luminaire Tested: 4SNLED-LD5-54HL-SLW-UNV-L950-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1214167
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27403)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/29/2018
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4SNLED-LD5-54HL-SLW-UNV-L950-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

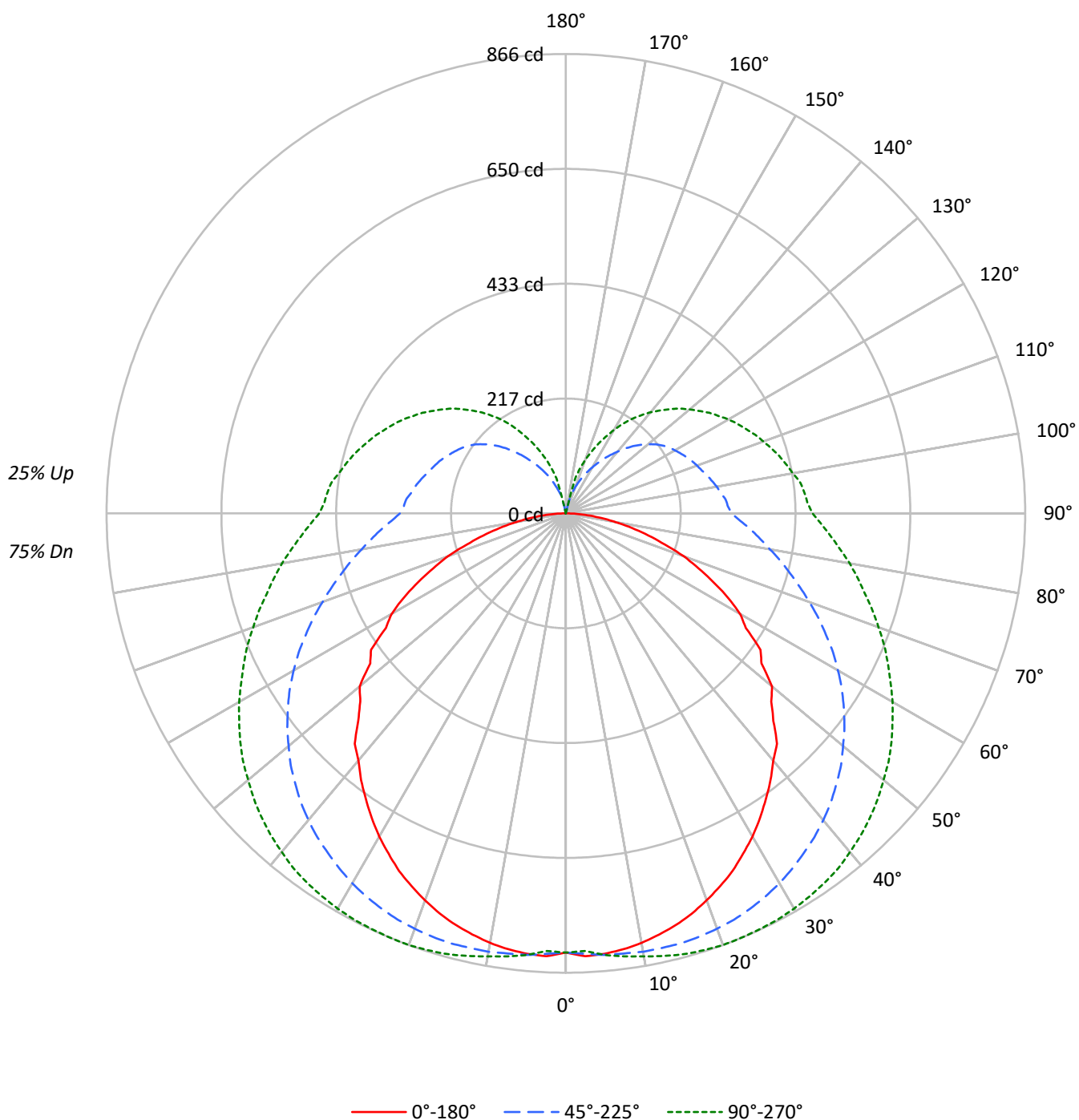
Lumens per Lamp: N/A
Luminaire Lumens: 4767.0 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 43
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: 24 FT

TEST NUMBER: P1214167

CATALOG NUMBER: 4SNLED-LD5-54HL-SLW-UNV-L950-CD1-U

Luminous Intensity Polar Plot



TEST NUMBER: P1214167

CATALOG NUMBER: 4SNLED-LD5-54HL-SLW-UNV-L950-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
RCR																	
0	113	113	113	113	107	107	107	107	97	97	97	88	88	88	79	79	79
1	100	94	89	84	95	89	84	80	80	76	73	72	69	66	64	62	60
2	90	80	72	66	85	76	69	63	68	63	58	61	57	53	55	51	48
3	81	69	60	53	76	66	58	51	59	53	47	53	48	43	47	43	39
4	74	61	51	44	69	58	49	43	52	45	39	47	41	36	42	37	33
5	67	54	44	37	63	51	43	36	46	39	33	42	35	31	37	32	28
6	62	48	39	32	58	46	37	31	41	34	29	37	31	27	34	28	24
7	57	43	34	28	54	41	33	27	37	30	25	34	28	23	30	25	21
8	53	39	31	25	50	37	29	24	34	27	22	31	25	21	28	23	19
9	49	36	27	22	47	34	26	21	31	24	20	28	23	18	26	21	17
10	46	33	25	20	44	31	24	19	29	22	18	26	21	16	24	19	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6689	6689	6689
5°	6742	6612	6563
10°	6710	6552	6526
15°	6664	6517	6540
20°	6601	6488	6551
25°	6537	6464	6562
30°	6448	6445	6598
35°	6347	6421	6642
40°	6253	6416	6686
45°	6133	6403	6739
50°	6150	6388	6792
55°	6043	6388	6873
60°	5822	6394	6967
65°	5500	6399	7097
70°	5144	6447	7296
75°	4510	6597	7589
80°	3807	6915	8081
85°	2828	7560	8794

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 90°

Luminance: 10008 cd/sqm

TEST NUMBER: P1214167

CATALOG NUMBER: 4SNLED-LD5-54HL-SLW-UNV-L950-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.6	1.7
10°-20°	235.8	4.9
20°-30°	374.8	7.9
30°-40°	481.0	10.1
40°-50°	543.2	11.4
50°-60°	554.3	11.6
60°-70°	513.5	10.8
70°-80°	434.7	9.1
80°-90°	347.0	7.3
90°-100°	294.6	6.2
100°-110°	262.5	5.5
110°-120°	223.6	4.7
120°-130°	177.6	3.7
130°-140°	126.0	2.6
140°-150°	75.2	1.6
150°-160°	35.1	0.7
160°-170°	8.3	0.2
170°-180°	0.0	0.0
0°-30°	690.2	14.5
0°-40°	1171.2	24.6
0°-60°	2268.7	47.6
0°-90°	3564.0	74.8
90°-120°	780.8	16.4
90°-150°	1159.6	24.3
90°-180°	1203.0	25.2
0°-180°	4767.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	828	828	828	828	828	
5°	833	827	836	836	836	79
15°	803	810	839	855	860	227
25°	744	768	822	851	865	342
35°	658	706	782	830	850	412
45°	553	628	721	784	811	430
55°	448	523	640	718	749	393
65°	307	409	541	634	670	305
75°	161	286	438	546	584	172
85°	41	184	350	463	502	45
90°	2	150	312	426	465	3
95°	0	141	302	413	451	0
105°	0	130	276	380	417	0
115°	0	121	251	342	375	0
125°	0	104	223	301	330	0
135°	0	77	179	254	278	0
145°	0	50	126	190	217	0
155°	1	31	77	116	144	1
165°	1	17	35	48	68	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0

TEST NUMBER: P1214167

CATALOG NUMBER: 4SNLED-LD5-54HL-SLW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	827.8	827.8	827.8	827.8	827.8
2.5°	835.6	826.7	831.2	830.0	825.6
5°	833.4	826.7	835.6	835.6	835.6
7.5°	828.9	824.4	836.8	841.2	842.4
10°	822.2	822.2	839.0	845.7	848.0
12.5°	813.2	816.6	839.0	849.1	854.7
15°	803.2	809.9	839.0	854.7	860.3
17.5°	790.8	802.0	836.8	855.8	863.6
20°	776.3	793.1	833.4	855.8	865.9
22.5°	760.6	781.9	828.9	853.6	865.9
25°	743.8	768.4	822.2	851.3	864.8
27.5°	723.6	755.0	814.4	848.0	863.6
30°	703.5	739.3	805.4	843.5	860.3
32.5°	681.1	722.5	794.2	836.8	855.8
35°	657.5	705.7	781.9	830.0	850.2
37.5°	634.0	685.5	769.6	821.1	843.5
40°	608.3	665.4	755.0	809.9	833.4
42.5°	589.2	644.1	739.3	798.7	823.3
45°	553.4	628.4	721.4	784.1	811.0
47.5°	525.4	598.2	703.5	769.6	797.6
50°	507.4	573.5	682.2	752.8	781.9
52.5°	464.9	556.7	662.0	735.9	767.3
55°	448.1	523.1	639.6	718.0	749.4
57.5°	402.1	499.6	617.2	697.9	730.3
60°	379.7	467.1	592.6	677.7	711.3
62.5°	345.0	439.1	567.9	655.3	690.0
65°	306.9	408.9	541.0	634.0	669.9
67.5°	271.1	378.6	515.3	611.6	649.7
70°	236.4	347.3	488.4	589.2	627.3
72.5°	196.0	315.9	462.6	567.9	606.0
75°	161.3	285.6	438.0	545.5	583.6
77.5°	127.7	256.5	414.5	525.4	563.4
80°	96.3	228.5	390.9	504.1	543.3
82.5°	67.2	205.0	369.7	483.9	522.0
85°	41.4	183.7	349.5	462.6	501.8
87.5°	19.0	164.7	329.3	442.5	482.8
90°	2.2	150.1	312.5	425.7	464.9
92.5°	1.1	145.6	305.8	417.8	455.9
95°	0.0	141.1	302.4	413.3	451.4
97.5°	0.0	136.7	294.6	406.6	445.8
100°	0.0	134.4	289.0	396.5	434.6
102.5°	0.0	131.1	282.3	387.6	425.7
105°	0.0	129.9	275.6	379.7	416.7
107.5°	0.0	127.7	268.8	369.7	406.6
110°	0.0	125.5	263.2	360.7	396.5

TEST NUMBER: P1214167

CATALOG NUMBER: 4SNLED-LD5-54HL-SLW-UNV-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	123.2	257.6	351.7	386.5
115°	0.0	121.0	250.9	341.7	375.3
117.5°	0.0	117.6	244.2	331.6	365.2
120°	0.0	113.1	237.5	322.6	354.0
122.5°	0.0	108.7	230.8	311.4	341.7
125°	0.0	104.2	222.9	301.3	330.4
127.5°	0.0	97.5	214.0	290.1	317.0
130°	0.0	90.7	202.8	278.9	304.7
132.5°	1.1	84.0	191.5	266.6	292.4
135°	0.0	77.3	179.2	254.3	277.8
137.5°	0.0	71.7	165.8	240.8	263.2
140°	0.0	65.0	152.3	225.2	248.7
142.5°	0.0	57.1	138.9	208.4	233.0
145°	0.0	50.4	125.5	190.4	217.3
147.5°	1.1	44.8	113.1	171.4	200.5
150°	1.1	40.3	100.8	152.3	181.5
152.5°	1.1	35.8	88.5	134.4	162.4
155°	1.1	31.4	77.3	116.5	144.5
157.5°	1.1	26.9	65.0	98.6	125.5
160°	1.1	23.5	53.8	82.9	107.5
162.5°	1.1	20.2	43.7	65.0	88.5
165°	1.1	16.8	34.7	48.2	68.3
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)