

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: P1213465

Luminaire Tested: 4SNLED-LD5-54HL-SLW-UNV-L935-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213465
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-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

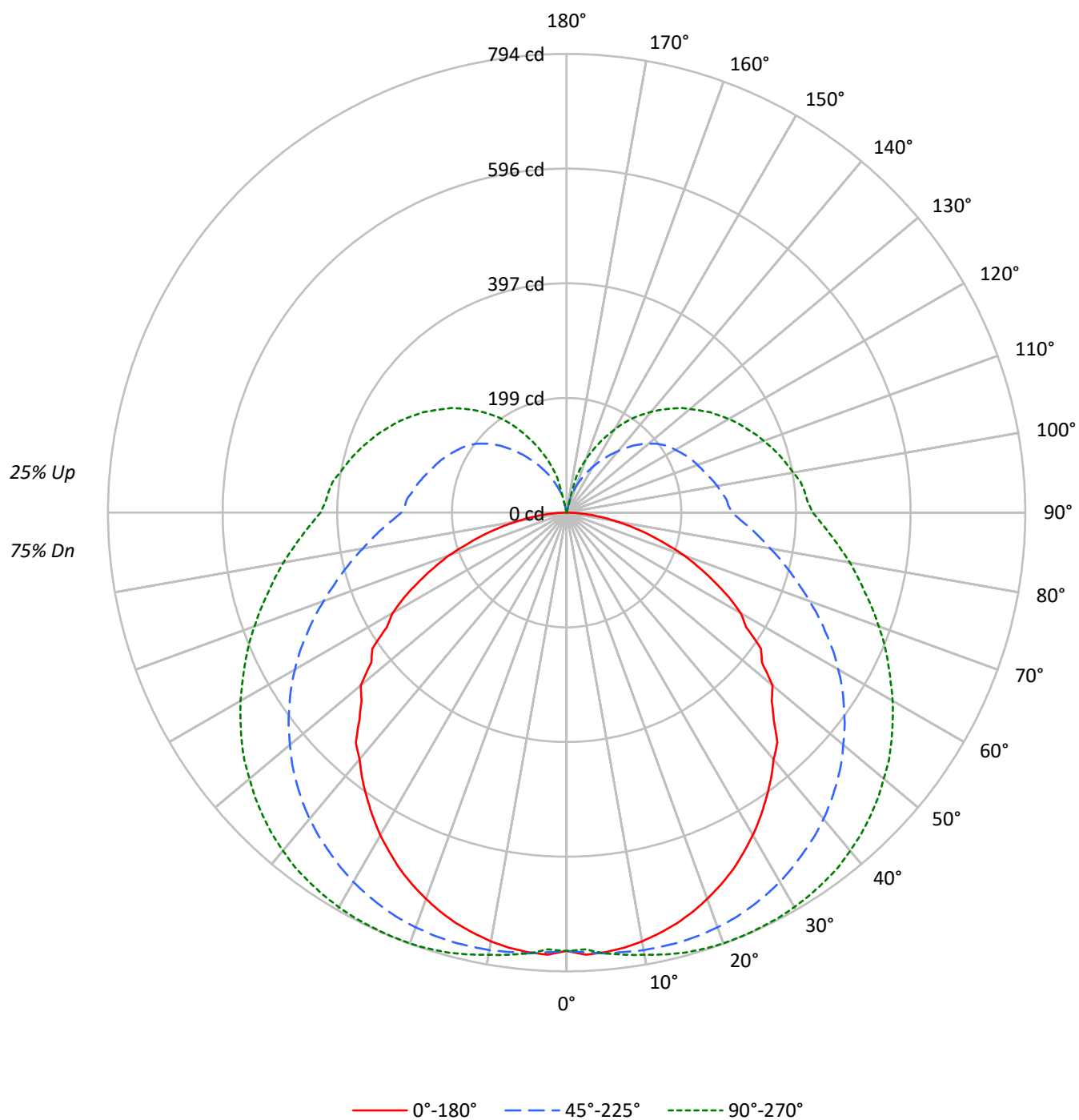
Lumens per Lamp: N/A
Luminaire Lumens: 4369.0 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

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

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Luminous Intensity Polar Plot



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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°	6131	6131	6131
5°	6179	6060	6015
10°	6150	6006	5982
15°	6107	5973	5994
20°	6050	5946	6004
25°	5991	5925	6014
30°	5909	5908	6047
35°	5817	5885	6087
40°	5731	5881	6127
45°	5621	5869	6176
50°	5637	5854	6224
55°	5539	5855	6299
60°	5336	5859	6385
65°	5041	5866	6503
70°	4713	5908	6687
75°	4133	6046	6956
80°	3491	6338	7405
85°	2596	6928	8060

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 90°

Luminance: 9173 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.9	1.7
10°-20°	216.1	4.9
20°-30°	343.5	7.9
30°-40°	440.9	10.1
40°-50°	497.9	11.4
50°-60°	508.0	11.6
60°-70°	470.6	10.8
70°-80°	398.4	9.1
80°-90°	318.1	7.3
90°-100°	270.1	6.2
100°-110°	240.6	5.5
110°-120°	204.9	4.7
120°-130°	162.8	3.7
130°-140°	115.5	2.6
140°-150°	68.9	1.6
150°-160°	32.1	0.7
160°-170°	7.6	0.2
170°-180°	0.0	0.0
0°-30°	632.6	14.5
0°-40°	1073.5	24.6
0°-60°	2079.3	47.6
0°-90°	3266.4	74.8
90°-120°	715.6	16.4
90°-150°	1062.8	24.3
90°-180°	1103.0	25.2
0°-180°	4369.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	759	759	759	759	759	
5°	764	758	766	766	766	73
15°	736	742	769	783	788	208
25°	682	704	754	780	793	314
35°	603	647	717	761	779	377
45°	507	576	661	719	743	394
55°	411	479	586	658	687	361
65°	281	375	496	581	614	279
75°	148	262	401	500	535	157
85°	38	168	320	424	460	41
90°	2	138	286	390	426	3
95°	0	129	277	379	414	0
105°	0	119	253	348	382	0
115°	0	111	230	313	344	0
125°	0	96	204	276	303	0
135°	0	71	164	233	255	0
145°	0	46	115	174	199	0
155°	1	29	71	107	132	0
165°	1	15	32	44	63	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	758.7	758.7	758.7	758.7	758.7
2.5°	765.9	757.7	761.8	760.7	756.6
5°	763.8	757.7	765.9	765.9	765.9
7.5°	759.7	755.6	766.9	771.0	772.0
10°	753.6	753.6	769.0	775.1	777.2
12.5°	745.3	748.4	769.0	778.2	783.3
15°	736.1	742.3	769.0	783.3	788.5
17.5°	724.8	735.1	766.9	784.4	791.5
20°	711.5	726.9	763.8	784.4	793.6
22.5°	697.1	716.6	759.7	782.3	793.6
25°	681.7	704.3	753.6	780.2	792.6
27.5°	663.2	692.0	746.4	777.2	791.5
30°	644.7	677.6	738.2	773.1	788.5
32.5°	624.2	662.2	727.9	766.9	784.4
35°	602.6	646.8	716.6	760.7	779.2
37.5°	581.1	628.3	705.3	752.5	773.1
40°	557.5	609.8	692.0	742.3	763.8
42.5°	540.0	590.3	677.6	732.0	754.6
45°	507.2	575.9	661.2	718.7	743.3
47.5°	481.5	548.2	644.7	705.3	731.0
50°	465.1	525.6	625.2	689.9	716.6
52.5°	426.1	510.2	606.7	674.5	703.3
55°	410.7	479.4	586.2	658.1	686.8
57.5°	368.6	457.9	565.7	639.6	669.4
60°	348.0	428.1	543.1	621.1	651.9
62.5°	316.2	402.4	520.5	600.6	632.4
65°	281.3	374.7	495.9	581.1	613.9
67.5°	248.4	347.0	472.3	560.5	595.5
70°	216.6	318.3	447.6	540.0	574.9
72.5°	179.7	289.5	424.0	520.5	555.4
75°	147.8	261.8	401.4	500.0	534.9
77.5°	117.0	235.1	379.9	481.5	516.4
80°	88.3	209.4	358.3	462.0	497.9
82.5°	61.6	187.9	338.8	443.5	478.4
85°	38.0	168.4	320.3	424.0	459.9
87.5°	17.5	150.9	301.8	405.5	442.5
90°	2.1	137.6	286.4	390.1	426.1
92.5°	1.0	133.5	280.3	382.9	417.8
95°	0.0	129.4	277.2	378.8	413.7
97.5°	0.0	125.3	270.0	372.7	408.6
100°	0.0	123.2	264.9	363.4	398.3
102.5°	0.0	120.1	258.7	355.2	390.1
105°	0.0	119.1	252.6	348.0	381.9
107.5°	0.0	117.0	246.4	338.8	372.7
110°	0.0	115.0	241.3	330.6	363.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	112.9	236.1	322.4	354.2
115°	0.0	110.9	230.0	313.1	343.9
117.5°	0.0	107.8	223.8	303.9	334.7
120°	0.0	103.7	217.6	295.7	324.4
122.5°	0.0	99.6	211.5	285.4	313.1
125°	0.0	95.5	204.3	276.2	302.9
127.5°	0.0	89.3	196.1	265.9	290.5
130°	0.0	83.2	185.8	255.6	279.2
132.5°	1.0	77.0	175.6	244.3	268.0
135°	0.0	70.8	164.3	233.0	254.6
137.5°	0.0	65.7	151.9	220.7	241.3
140°	0.0	59.5	139.6	206.4	227.9
142.5°	0.0	52.4	127.3	191.0	213.5
145°	0.0	46.2	115.0	174.5	199.2
147.5°	1.0	41.1	103.7	157.1	183.8
150°	1.0	37.0	92.4	139.6	166.3
152.5°	1.0	32.9	81.1	123.2	148.9
155°	1.0	28.7	70.8	106.8	132.4
157.5°	1.0	24.6	59.5	90.3	115.0
160°	1.0	21.6	49.3	76.0	98.6
162.5°	1.0	18.5	40.0	59.5	81.1
165°	1.0	15.4	31.8	44.1	62.6
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)