

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: P1213471

Luminaire Tested: 4SNLED-LD5-55HL-SLW-UNV-L935-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213471
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-LD5-55HL-SLW-UNV-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

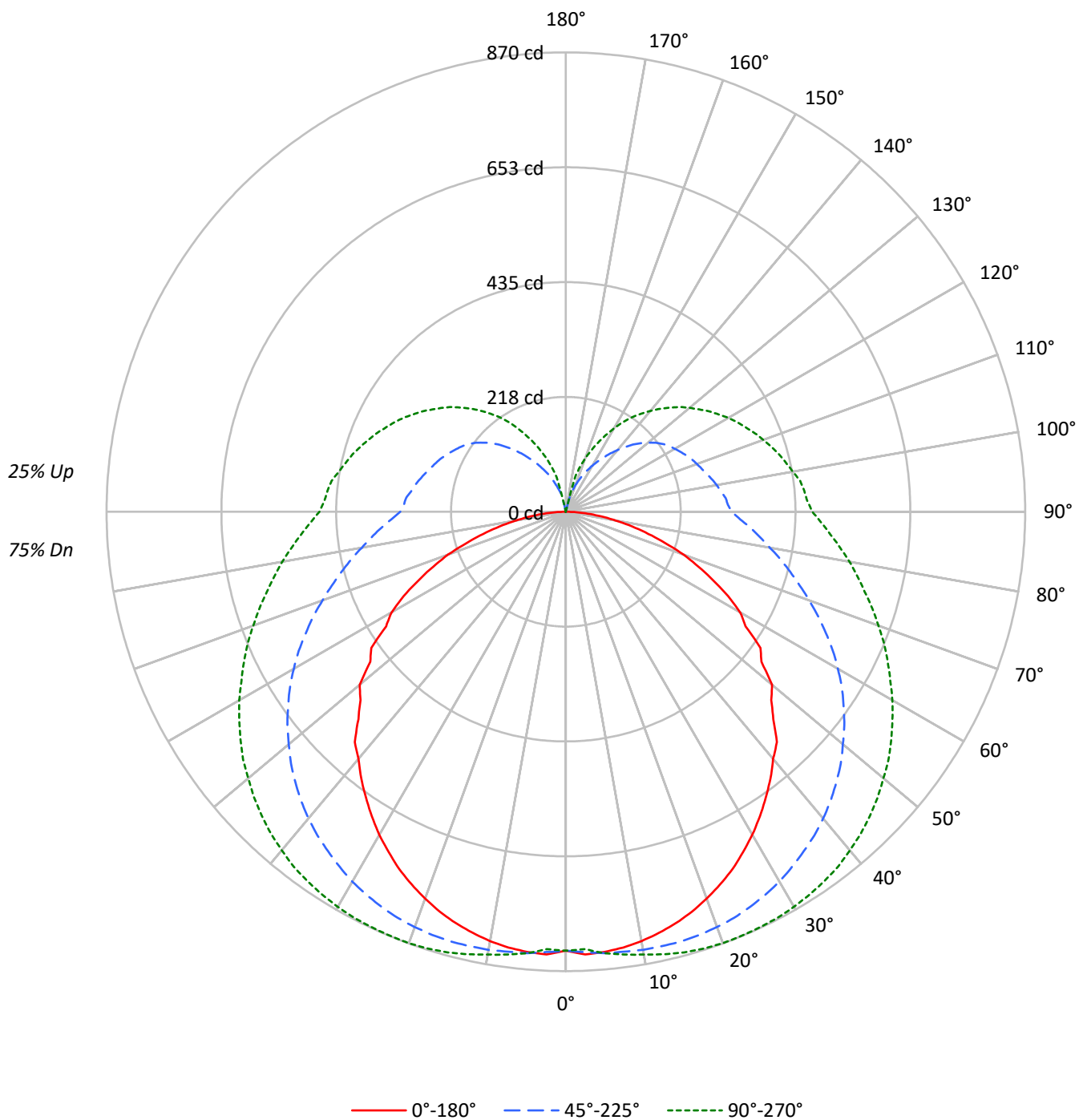
Lumens per Lamp: N/A
Luminaire Lumens: 4787.0 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 48
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°	6718	6718	6718
5°	6770	6640	6591
10°	6738	6580	6553
15°	6691	6544	6567
20°	6628	6515	6579
25°	6564	6492	6590
30°	6475	6473	6625
35°	6374	6448	6670
40°	6279	6444	6714
45°	6158	6430	6767
50°	6177	6414	6820
55°	6068	6415	6902
60°	5846	6421	6996
65°	5523	6426	7126
70°	5163	6473	7327
75°	4530	6624	7622
80°	3823	6945	8115
85°	2842	7592	8831

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 90°

Luminance: 10049 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.9	1.7
10°-20°	236.8	4.9
20°-30°	376.4	7.9
30°-40°	483.1	10.1
40°-50°	545.5	11.4
50°-60°	556.6	11.6
60°-70°	515.6	10.8
70°-80°	436.6	9.1
80°-90°	348.5	7.3
90°-100°	295.9	6.2
100°-110°	263.6	5.5
110°-120°	224.6	4.7
120°-130°	178.4	3.7
130°-140°	126.5	2.6
140°-150°	75.5	1.6
150°-160°	35.2	0.7
160°-170°	8.4	0.2
170°-180°	0.0	0.0
0°-30°	693.1	14.5
0°-40°	1176.2	24.6
0°-60°	2278.2	47.6
0°-90°	3578.9	74.8
90°-120°	784.1	16.4
90°-150°	1164.5	24.3
90°-180°	1208.0	25.2
0°-180°	4787.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	831	831	831	831	831	
5°	837	830	839	839	839	80
15°	806	813	842	858	864	228
25°	747	772	826	855	868	344
35°	660	709	785	834	854	413
45°	556	631	724	787	814	432
55°	450	525	642	721	752	395
65°	308	411	543	637	673	306
75°	162	287	440	548	586	172
85°	42	184	351	465	504	45
90°	2	151	314	427	467	3
95°	0	142	304	415	453	0
105°	0	130	277	381	418	0
115°	0	122	252	343	377	0
125°	0	105	224	303	332	0
135°	0	78	180	255	279	0
145°	0	51	126	191	218	0
155°	1	32	78	117	145	1
165°	1	17	35	48	69	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°	831.3	831.3	831.3	831.3	831.3
2.5°	839.2	830.2	834.7	833.5	829.0
5°	836.9	830.2	839.2	839.2	839.2
7.5°	832.4	827.9	840.3	844.8	845.9
10°	825.7	825.7	842.5	849.3	851.5
12.5°	816.7	820.0	842.5	852.6	858.3
15°	806.5	813.3	842.5	858.3	863.9
17.5°	794.2	805.4	840.3	859.4	867.3
20°	779.5	796.4	836.9	859.4	869.5
22.5°	763.8	785.2	832.4	857.1	869.5
25°	746.9	771.7	825.7	854.9	868.4
27.5°	726.7	758.2	817.8	851.5	867.3
30°	706.4	742.4	808.8	847.0	863.9
32.5°	683.9	725.5	797.5	840.3	859.4
35°	660.3	708.7	785.2	833.5	853.8
37.5°	636.7	688.4	772.8	824.5	847.0
40°	610.8	668.2	758.2	813.3	836.9
42.5°	591.7	646.8	742.4	802.0	826.8
45°	555.7	631.1	724.4	787.4	814.4
47.5°	527.6	600.7	706.4	772.8	800.9
50°	509.6	575.9	685.0	755.9	785.2
52.5°	466.8	559.1	664.8	739.0	770.5
55°	449.9	525.3	642.3	721.0	752.5
57.5°	403.8	501.7	619.8	700.8	733.4
60°	381.3	469.1	595.1	680.5	714.3
62.5°	346.5	440.9	570.3	658.0	692.9
65°	308.2	410.6	543.3	636.7	672.7
67.5°	272.2	380.2	517.4	614.2	652.4
70°	237.3	348.7	490.4	591.7	629.9
72.5°	196.9	317.2	464.6	570.3	608.6
75°	162.0	286.8	439.8	547.8	586.1
77.5°	128.2	257.6	416.2	527.6	565.8
80°	96.7	229.5	392.6	506.2	545.6
82.5°	67.5	205.9	371.2	485.9	524.2
85°	41.6	184.5	351.0	464.6	503.9
87.5°	19.1	165.4	330.7	444.3	484.8
90°	2.2	150.7	313.8	427.4	466.8
92.5°	1.1	146.2	307.1	419.6	457.8
95°	0.0	141.7	303.7	415.1	453.3
97.5°	0.0	137.2	295.8	408.3	447.7
100°	0.0	135.0	290.2	398.2	436.4
102.5°	0.0	131.6	283.5	389.2	427.4
105°	0.0	130.5	276.7	381.3	418.5
107.5°	0.0	128.2	270.0	371.2	408.3
110°	0.0	126.0	264.3	362.2	398.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	123.7	258.7	353.2	388.1
115°	0.0	121.5	252.0	343.1	376.8
117.5°	0.0	118.1	245.2	333.0	366.7
120°	0.0	113.6	238.5	324.0	355.5
122.5°	0.0	109.1	231.7	312.7	343.1
125°	0.0	104.6	223.8	302.6	331.8
127.5°	0.0	97.9	214.8	291.3	318.3
130°	0.0	91.1	203.6	280.1	306.0
132.5°	1.1	84.4	192.4	267.7	293.6
135°	0.0	77.6	180.0	255.3	279.0
137.5°	0.0	72.0	166.5	241.8	264.3
140°	0.0	65.2	153.0	226.1	249.7
142.5°	0.0	57.4	139.5	209.2	234.0
145°	0.0	50.6	126.0	191.2	218.2
147.5°	1.1	45.0	113.6	172.1	201.4
150°	1.1	40.5	101.2	153.0	182.2
152.5°	1.1	36.0	88.9	135.0	163.1
155°	1.1	31.5	77.6	117.0	145.1
157.5°	1.1	27.0	65.2	99.0	126.0
160°	1.1	23.6	54.0	83.2	108.0
162.5°	1.1	20.2	43.9	65.2	88.9
165°	1.1	16.9	34.9	48.4	68.6
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)