

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: P1213712

Luminaire Tested: 4SNLED-LD5-16SL-SLW-UNV-L940-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213712
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-LD5-16SL-SLW-UNV-L940-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

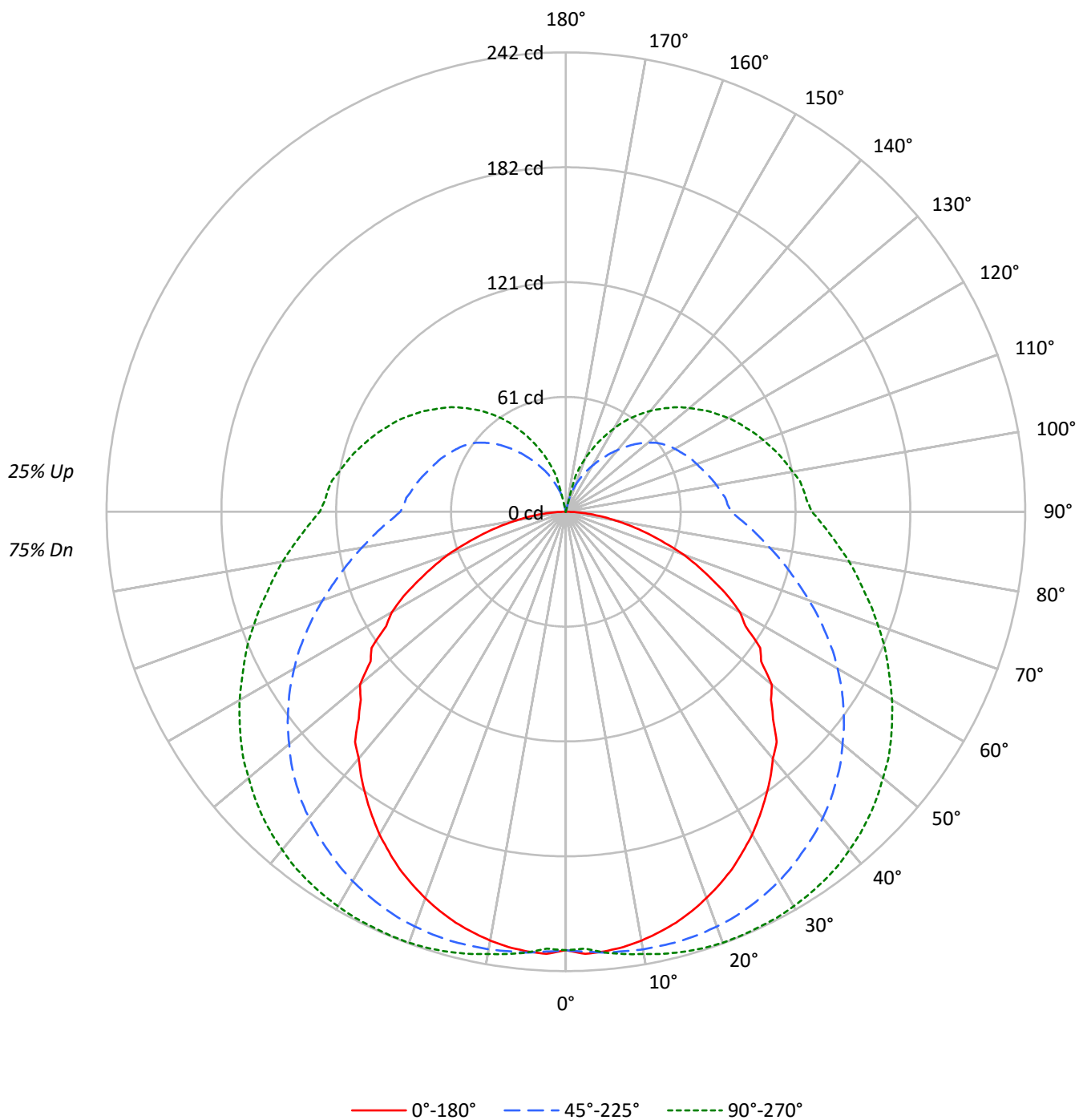
Lumens per Lamp: N/A
Luminaire Lumens: 1330.0 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 13
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°	1867	1867	1867
5°	1881	1844	1831
10°	1872	1828	1821
15°	1859	1818	1824
20°	1842	1810	1828
25°	1824	1804	1831
30°	1799	1798	1841
35°	1771	1791	1853
40°	1744	1790	1865
45°	1711	1787	1880
50°	1716	1782	1894
55°	1686	1783	1918
60°	1624	1783	1944
65°	1534	1786	1980
70°	1434	1799	2035
75°	1258	1840	2117
80°	1063	1930	2255
85°	792	2109	2454

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 90°

Luminance: 2792 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.2	1.7
10°-20°	65.8	4.9
20°-30°	104.6	7.9
30°-40°	134.2	10.1
40°-50°	151.6	11.4
50°-60°	154.6	11.6
60°-70°	143.3	10.8
70°-80°	121.3	9.1
80°-90°	96.8	7.3
90°-100°	82.2	6.2
100°-110°	73.2	5.5
110°-120°	62.4	4.7
120°-130°	49.6	3.7
130°-140°	35.1	2.6
140°-150°	21.0	1.6
150°-160°	9.8	0.7
160°-170°	2.3	0.2
170°-180°	0.0	0.0
0°-30°	192.6	14.5
0°-40°	326.8	24.6
0°-60°	633.0	47.6
0°-90°	994.4	74.8
90°-120°	217.8	16.4
90°-150°	323.5	24.3
90°-180°	336.0	25.3
0°-180°	1330.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	231	231	231	231	231	
5°	232	231	233	233	233	22
15°	224	226	234	238	240	63
25°	208	214	229	238	241	96
35°	184	197	218	232	237	115
45°	154	175	201	219	226	120
55°	125	146	178	200	209	110
65°	86	114	151	177	187	85
75°	45	80	122	152	163	48
85°	12	51	98	129	140	13
90°	1	42	87	119	130	1
95°	0	39	84	115	126	0
105°	0	36	77	106	116	0
115°	0	34	70	95	105	0
125°	0	29	62	84	92	0
135°	0	22	50	71	78	0
145°	0	14	35	53	61	0
155°	0	9	22	32	40	0
165°	0	5	10	13	19	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°	231.0	231.0	231.0	231.0	231.0
2.5°	233.1	230.6	231.9	231.6	230.3
5°	232.5	230.6	233.1	233.1	233.1
7.5°	231.3	230.0	233.5	234.7	235.0
10°	229.4	229.4	234.1	236.0	236.6
12.5°	226.9	227.8	234.1	236.9	238.5
15°	224.1	226.0	234.1	238.5	240.0
17.5°	220.6	223.8	233.5	238.8	241.0
20°	216.6	221.3	232.5	238.8	241.6
22.5°	212.2	218.1	231.3	238.1	241.6
25°	207.5	214.4	229.4	237.5	241.3
27.5°	201.9	210.6	227.2	236.6	241.0
30°	196.3	206.3	224.7	235.3	240.0
32.5°	190.0	201.6	221.6	233.5	238.8
35°	183.5	196.9	218.1	231.6	237.2
37.5°	176.9	191.3	214.7	229.1	235.3
40°	169.7	185.6	210.6	226.0	232.5
42.5°	164.4	179.7	206.3	222.8	229.7
45°	154.4	175.3	201.3	218.8	226.3
47.5°	146.6	166.9	196.3	214.7	222.5
50°	141.6	160.0	190.3	210.0	218.1
52.5°	129.7	155.3	184.7	205.3	214.1
55°	125.0	146.0	178.5	200.3	209.1
57.5°	112.2	139.4	172.2	194.7	203.8
60°	105.9	130.3	165.3	189.1	198.5
62.5°	96.3	122.5	158.5	182.8	192.5
65°	85.6	114.1	151.0	176.9	186.9
67.5°	75.6	105.6	143.8	170.6	181.3
70°	65.9	96.9	136.3	164.4	175.0
72.5°	54.7	88.1	129.1	158.5	169.1
75°	45.0	79.7	122.2	152.2	162.8
77.5°	35.6	71.6	115.6	146.6	157.2
80°	26.9	63.8	109.1	140.6	151.6
82.5°	18.8	57.2	103.1	135.0	145.6
85°	11.6	51.3	97.5	129.1	140.0
87.5°	5.3	45.9	91.9	123.4	134.7
90°	0.6	41.9	87.2	118.8	129.7
92.5°	0.3	40.6	85.3	116.6	127.2
95°	0.0	39.4	84.4	115.3	125.9
97.5°	0.0	38.1	82.2	113.4	124.4
100°	0.0	37.5	80.6	110.6	121.3
102.5°	0.0	36.6	78.8	108.1	118.8
105°	0.0	36.3	76.9	105.9	116.3
107.5°	0.0	35.6	75.0	103.1	113.4
110°	0.0	35.0	73.4	100.6	110.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	34.4	71.9	98.1	107.8
115°	0.0	33.8	70.0	95.3	104.7
117.5°	0.0	32.8	68.1	92.5	101.9
120°	0.0	31.6	66.3	90.0	98.8
122.5°	0.0	30.3	64.4	86.9	95.3
125°	0.0	29.1	62.2	84.1	92.2
127.5°	0.0	27.2	59.7	80.9	88.4
130°	0.0	25.3	56.6	77.8	85.0
132.5°	0.3	23.4	53.4	74.4	81.6
135°	0.0	21.6	50.0	70.9	77.5
137.5°	0.0	20.0	46.3	67.2	73.4
140°	0.0	18.1	42.5	62.8	69.4
142.5°	0.0	15.9	38.8	58.1	65.0
145°	0.0	14.1	35.0	53.1	60.6
147.5°	0.3	12.5	31.6	47.8	55.9
150°	0.3	11.3	28.1	42.5	50.6
152.5°	0.3	10.0	24.7	37.5	45.3
155°	0.3	8.8	21.6	32.5	40.3
157.5°	0.3	7.5	18.1	27.5	35.0
160°	0.3	6.6	15.0	23.1	30.0
162.5°	0.3	5.6	12.2	18.1	24.7
165°	0.3	4.7	9.7	13.4	19.1
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)