

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: P1214063

Luminaire Tested: 4SNLED-LD5-16SL-SLW-UNV-L950-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1214063
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-L950-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

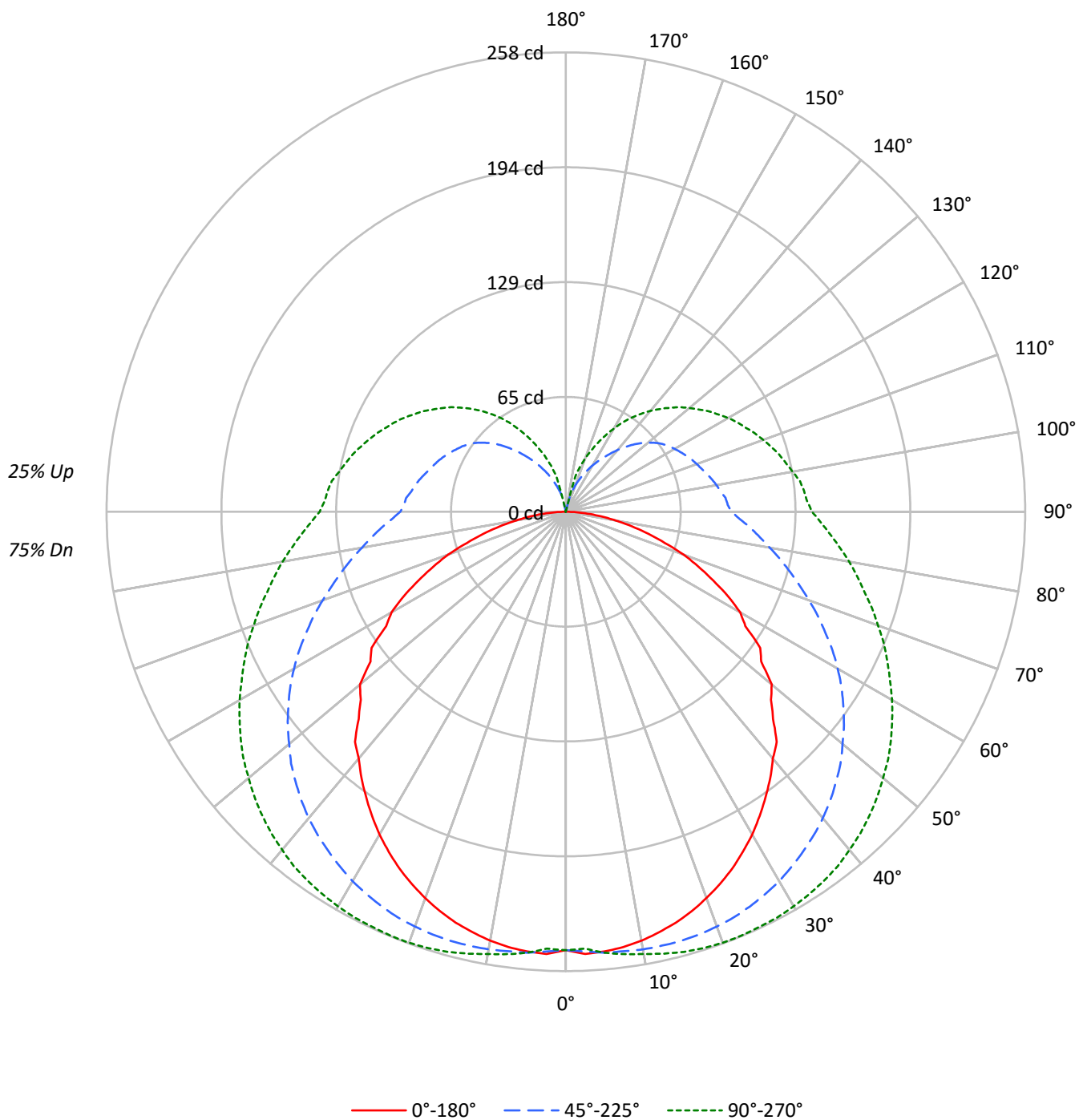
Lumens per Lamp: N/A
Luminaire Lumens: 1418.0 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

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°	1990	1990	1990
5°	2005	1967	1952
10°	1996	1949	1941
15°	1982	1939	1945
20°	1963	1930	1949
25°	1944	1923	1952
30°	1918	1917	1963
35°	1888	1910	1976
40°	1860	1909	1989
45°	1824	1905	2004
50°	1829	1900	2020
55°	1798	1901	2044
60°	1733	1902	2072
65°	1636	1903	2111
70°	1530	1918	2170
75°	1342	1962	2258
80°	1135	2057	2404
85°	840	2250	2617

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 90°

Luminance: 2977 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.7	1.7
10°-20°	70.2	4.9
20°-30°	111.5	7.9
30°-40°	143.1	10.1
40°-50°	161.6	11.4
50°-60°	164.9	11.6
60°-70°	152.7	10.8
70°-80°	129.3	9.1
80°-90°	103.2	7.3
90°-100°	87.7	6.2
100°-110°	78.1	5.5
110°-120°	66.5	4.7
120°-130°	52.8	3.7
130°-140°	37.5	2.6
140°-150°	22.4	1.6
150°-160°	10.4	0.7
160°-170°	2.5	0.2
170°-180°	0.0	0.0
0°-30°	205.3	14.5
0°-40°	348.4	24.6
0°-60°	674.8	47.6
0°-90°	1060.1	74.8
90°-120°	232.3	16.4
90°-150°	345.0	24.3
90°-180°	358.0	25.2
0°-180°	1418.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	246	246	246	246	246	
5°	248	246	249	249	249	24
15°	239	241	250	254	256	67
25°	221	229	245	253	257	102
35°	196	210	233	247	253	122
45°	165	187	215	233	241	128
55°	133	156	190	214	223	117
65°	91	122	161	189	199	91
75°	48	85	130	162	174	51
85°	12	55	104	138	149	13
90°	1	45	93	127	138	1
95°	0	42	90	123	134	0
105°	0	39	82	113	124	0
115°	0	36	75	102	112	0
125°	0	31	66	90	98	0
135°	0	23	53	76	83	0
145°	0	15	37	57	65	0
155°	0	9	23	35	43	0
165°	0	5	10	14	20	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°	246.2	246.2	246.2	246.2	246.2
2.5°	248.6	245.9	247.2	246.9	245.6
5°	247.9	245.9	248.6	248.6	248.6
7.5°	246.6	245.2	248.9	250.2	250.6
10°	244.6	244.6	249.6	251.6	252.2
12.5°	241.9	242.9	249.6	252.6	254.2
15°	238.9	240.9	249.6	254.2	255.9
17.5°	235.2	238.6	248.9	254.6	256.9
20°	230.9	235.9	247.9	254.6	257.6
22.5°	226.2	232.6	246.6	253.9	257.6
25°	221.2	228.6	244.6	253.2	257.2
27.5°	215.3	224.6	242.2	252.2	256.9
30°	209.3	219.9	239.6	250.9	255.9
32.5°	202.6	214.9	236.2	248.9	254.6
35°	195.6	209.9	232.6	246.9	252.9
37.5°	188.6	203.9	228.9	244.2	250.9
40°	180.9	197.9	224.6	240.9	247.9
42.5°	175.3	191.6	219.9	237.6	244.9
45°	164.6	186.9	214.6	233.2	241.2
47.5°	156.3	177.9	209.3	228.9	237.2
50°	150.9	170.6	202.9	223.9	232.6
52.5°	138.3	165.6	196.9	218.9	228.2
55°	133.3	155.6	190.3	213.6	222.9
57.5°	119.6	148.6	183.6	207.6	217.3
60°	113.0	138.9	176.3	201.6	211.6
62.5°	102.6	130.6	168.9	194.9	205.3
65°	91.3	121.6	160.9	188.6	199.3
67.5°	80.6	112.6	153.3	181.9	193.3
70°	70.3	103.3	145.3	175.3	186.6
72.5°	58.3	94.0	137.6	168.9	180.3
75°	48.0	85.0	130.3	162.3	173.6
77.5°	38.0	76.3	123.3	156.3	167.6
80°	28.7	68.0	116.3	149.9	161.6
82.5°	20.0	61.0	110.0	143.9	155.3
85°	12.3	54.6	104.0	137.6	149.3
87.5°	5.7	49.0	98.0	131.6	143.6
90°	0.7	44.6	93.0	126.6	138.3
92.5°	0.3	43.3	91.0	124.3	135.6
95°	0.0	42.0	90.0	123.0	134.3
97.5°	0.0	40.7	87.6	121.0	132.6
100°	0.0	40.0	86.0	118.0	129.3
102.5°	0.0	39.0	84.0	115.3	126.6
105°	0.0	38.7	82.0	113.0	124.0
107.5°	0.0	38.0	80.0	110.0	121.0
110°	0.0	37.3	78.3	107.3	118.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	36.7	76.6	104.6	115.0
115°	0.0	36.0	74.6	101.6	111.6
117.5°	0.0	35.0	72.6	98.6	108.6
120°	0.0	33.7	70.6	96.0	105.3
122.5°	0.0	32.3	68.6	92.6	101.6
125°	0.0	31.0	66.3	89.6	98.3
127.5°	0.0	29.0	63.6	86.3	94.3
130°	0.0	27.0	60.3	83.0	90.6
132.5°	0.3	25.0	57.0	79.3	87.0
135°	0.0	23.0	53.3	75.6	82.6
137.5°	0.0	21.3	49.3	71.6	78.3
140°	0.0	19.3	45.3	67.0	74.0
142.5°	0.0	17.0	41.3	62.0	69.3
145°	0.0	15.0	37.3	56.6	64.6
147.5°	0.3	13.3	33.7	51.0	59.6
150°	0.3	12.0	30.0	45.3	54.0
152.5°	0.3	10.7	26.3	40.0	48.3
155°	0.3	9.3	23.0	34.7	43.0
157.5°	0.3	8.0	19.3	29.3	37.3
160°	0.3	7.0	16.0	24.7	32.0
162.5°	0.3	6.0	13.0	19.3	26.3
165°	0.3	5.0	10.3	14.3	20.3
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)