

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: P1213413

Luminaire Tested: 4SNLED-LD5-37SL-SLW-UNV-L935-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213413
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-LD5-37SL-SLW-UNV-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

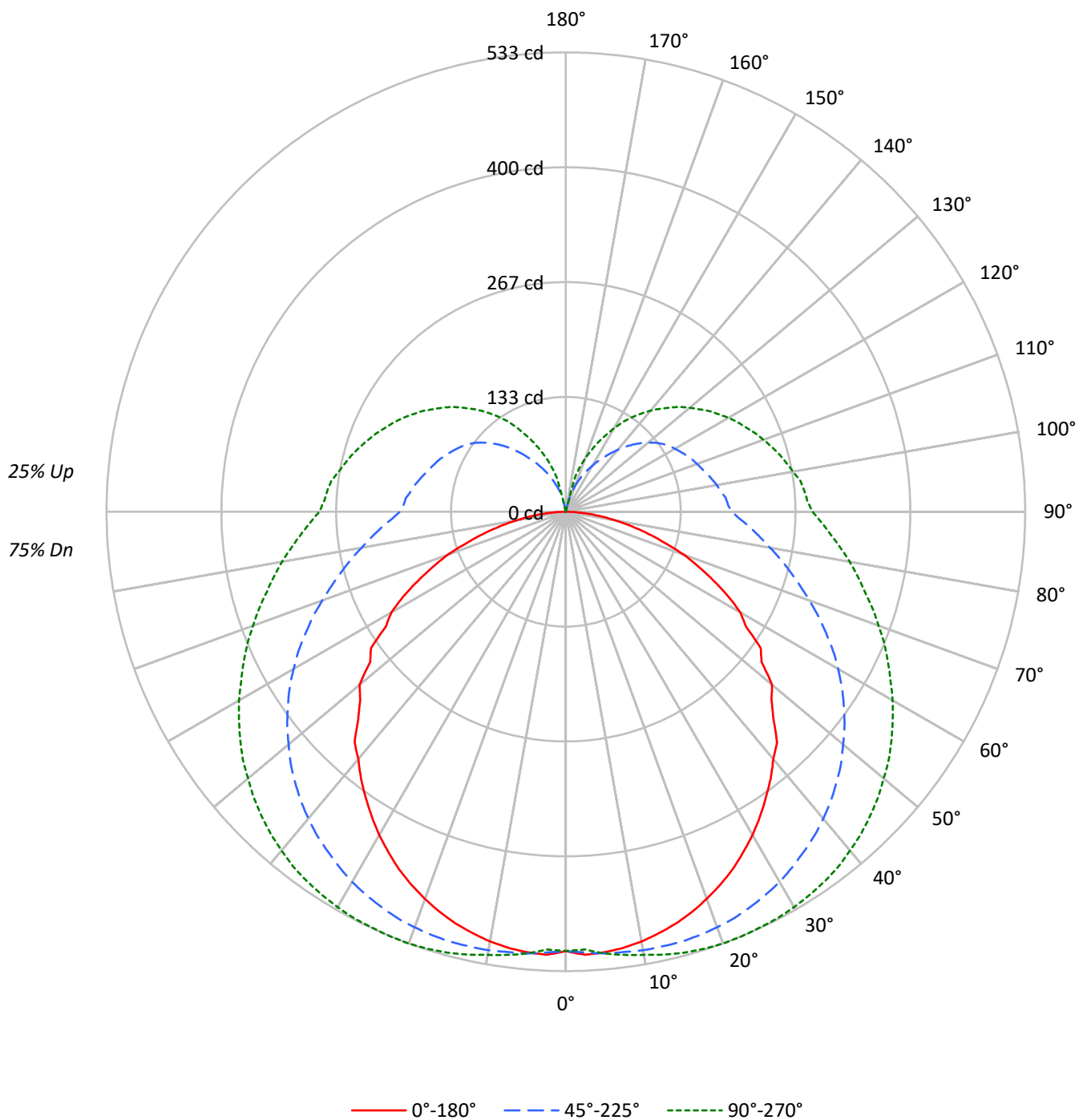
Lumens per Lamp: N/A
Luminaire Lumens: 2935.0 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 31
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°	4119	4119	4119
5°	4151	4071	4041
10°	4131	4035	4018
15°	4103	4013	4027
20°	4064	3994	4033
25°	4024	3980	4040
30°	3970	3969	4062
35°	3908	3953	4089
40°	3850	3950	4116
45°	3776	3943	4149
50°	3786	3933	4181
55°	3721	3933	4232
60°	3585	3936	4289
65°	3387	3940	4369
70°	3166	3969	4492
75°	2777	4062	4673
80°	2344	4258	4975
85°	1742	4655	5415

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 90°

Luminance: 6161 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.0	1.7
10°-20°	145.2	4.9
20°-30°	230.8	7.9
30°-40°	296.2	10.1
40°-50°	334.5	11.4
50°-60°	341.3	11.6
60°-70°	316.2	10.8
70°-80°	267.7	9.1
80°-90°	213.7	7.3
90°-100°	181.4	6.2
100°-110°	161.6	5.5
110°-120°	137.7	4.7
120°-130°	109.3	3.7
130°-140°	77.6	2.6
140°-150°	46.3	1.6
150°-160°	21.6	0.7
160°-170°	5.1	0.2
170°-180°	0.0	0.0
0°-30°	424.9	14.5
0°-40°	721.1	24.6
0°-60°	1396.8	47.6
0°-90°	2194.3	74.8
90°-120°	480.7	16.4
90°-150°	714.0	24.3
90°-180°	741.0	25.2
0°-180°	2935.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	510	510	510	510	510	
5°	513	509	514	514	514	49
15°	494	499	517	526	530	139
25°	458	473	506	524	532	211
35°	405	434	481	511	524	253
45°	341	387	444	483	499	265
55°	276	322	394	442	461	242
65°	189	252	333	390	412	188
75°	99	176	270	336	359	106
85°	26	113	215	285	309	28
90°	1	92	192	262	286	2
95°	0	87	186	254	278	0
105°	0	80	170	234	257	0
115°	0	74	154	210	231	0
125°	0	64	137	186	204	0
135°	0	48	110	157	171	0
145°	0	31	77	117	134	0
155°	1	19	48	72	89	0
165°	1	10	21	30	42	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°	509.7	509.7	509.7	509.7	509.7
2.5°	514.5	509.0	511.7	511.1	508.3
5°	513.1	509.0	514.5	514.5	514.5
7.5°	510.4	507.6	515.2	517.9	518.6
10°	506.2	506.2	516.6	520.7	522.1
12.5°	500.7	502.8	516.6	522.8	526.2
15°	494.5	498.6	516.6	526.2	529.7
17.5°	486.9	493.8	515.2	526.9	531.7
20°	477.9	488.3	513.1	526.9	533.1
22.5°	468.3	481.4	510.4	525.5	533.1
25°	457.9	473.1	506.2	524.2	532.4
27.5°	445.5	464.8	501.4	522.1	531.7
30°	433.1	455.2	495.9	519.3	529.7
32.5°	419.3	444.8	489.0	515.2	526.9
35°	404.8	434.5	481.4	511.1	523.5
37.5°	390.4	422.1	473.8	505.5	519.3
40°	374.5	409.7	464.8	498.6	513.1
42.5°	362.8	396.6	455.2	491.7	506.9
45°	340.7	386.9	444.2	482.8	499.3
47.5°	323.5	368.3	433.1	473.8	491.1
50°	312.4	353.1	420.0	463.5	481.4
52.5°	286.2	342.8	407.6	453.1	472.4
55°	275.9	322.1	393.8	442.1	461.4
57.5°	247.6	307.6	380.0	429.7	449.7
60°	233.8	287.6	364.8	417.3	437.9
62.5°	212.4	270.4	349.7	403.5	424.8
65°	189.0	251.7	333.1	390.4	412.4
67.5°	166.9	233.1	317.3	376.6	400.0
70°	145.5	213.8	300.7	362.8	386.2
72.5°	120.7	194.5	284.8	349.7	373.1
75°	99.3	175.9	269.7	335.9	359.3
77.5°	78.6	157.9	255.2	323.5	346.9
80°	59.3	140.7	240.7	310.4	334.5
82.5°	41.4	126.2	227.6	297.9	321.4
85°	25.5	113.1	215.2	284.8	309.0
87.5°	11.7	101.4	202.8	272.4	297.3
90°	1.4	92.4	192.4	262.1	286.2
92.5°	0.7	89.7	188.3	257.2	280.7
95°	0.0	86.9	186.2	254.5	277.9
97.5°	0.0	84.1	181.4	250.4	274.5
100°	0.0	82.8	177.9	244.1	267.6
102.5°	0.0	80.7	173.8	238.6	262.1
105°	0.0	80.0	169.7	233.8	256.6
107.5°	0.0	78.6	165.5	227.6	250.4
110°	0.0	77.2	162.1	222.1	244.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	75.9	158.6	216.6	237.9
115°	0.0	74.5	154.5	210.4	231.0
117.5°	0.0	72.4	150.3	204.1	224.8
120°	0.0	69.7	146.2	198.6	217.9
122.5°	0.0	66.9	142.1	191.7	210.4
125°	0.0	64.1	137.2	185.5	203.5
127.5°	0.0	60.0	131.7	178.6	195.2
130°	0.0	55.9	124.8	171.7	187.6
132.5°	0.7	51.7	117.9	164.1	180.0
135°	0.0	47.6	110.3	156.6	171.0
137.5°	0.0	44.1	102.1	148.3	162.1
140°	0.0	40.0	93.8	138.6	153.1
142.5°	0.0	35.2	85.5	128.3	143.5
145°	0.0	31.0	77.2	117.2	133.8
147.5°	0.7	27.6	69.7	105.5	123.5
150°	0.7	24.8	62.1	93.8	111.7
152.5°	0.7	22.1	54.5	82.8	100.0
155°	0.7	19.3	47.6	71.7	89.0
157.5°	0.7	16.6	40.0	60.7	77.2
160°	0.7	14.5	33.1	51.0	66.2
162.5°	0.7	12.4	26.9	40.0	54.5
165°	0.7	10.3	21.4	29.7	42.1
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)