

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: P1213479

Luminaire Tested: 4SNLED-LD5-56SL-SLW-UNV-L935-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213479
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-LD5-56SL-SLW-UNV-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

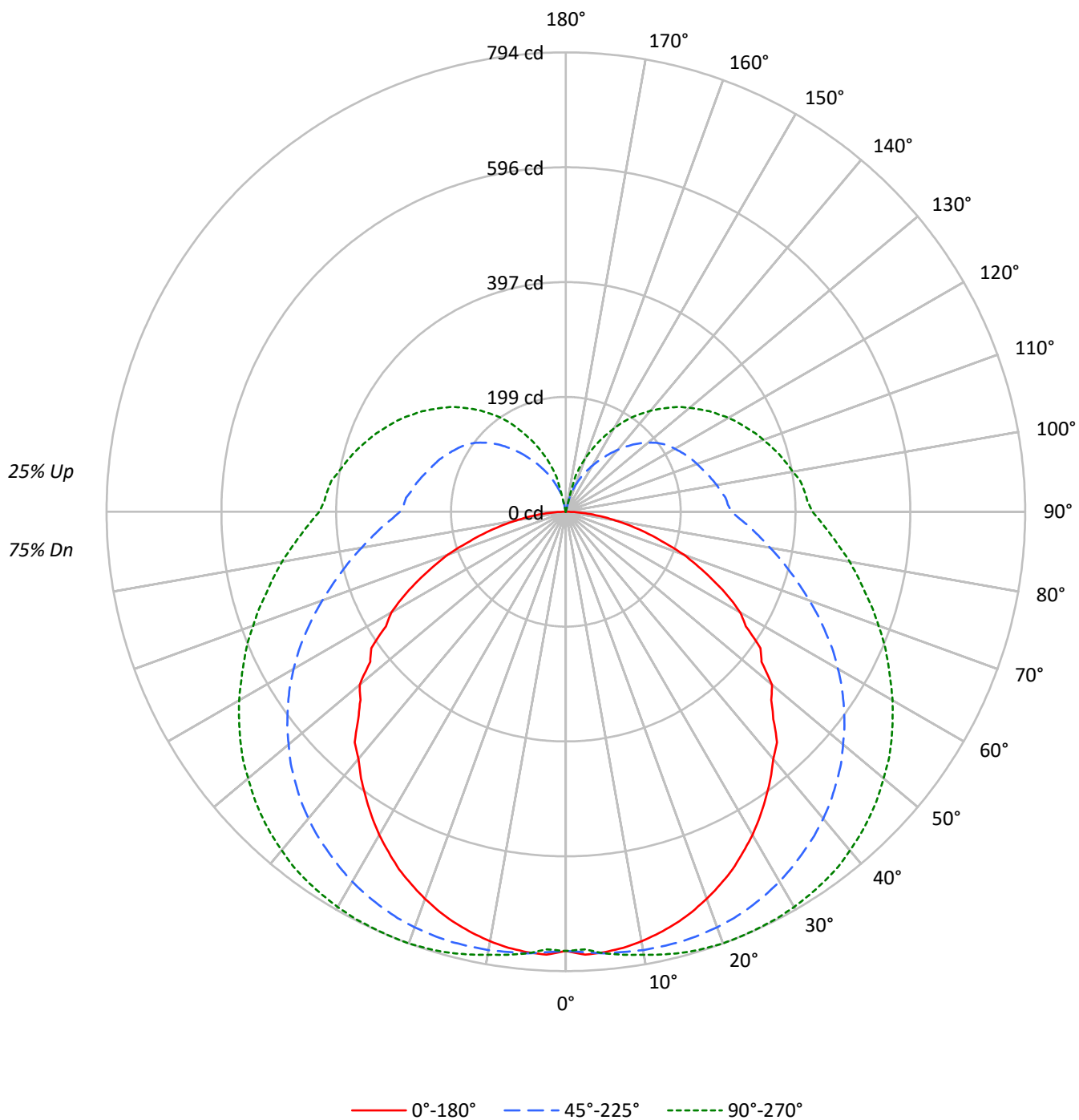
Lumens per Lamp: N/A
Luminaire Lumens: 4371.0 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 52
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°	6133	6133	6133
5°	6182	6063	6018
10°	6152	6008	5984
15°	6110	5976	5996
20°	6052	5949	6007
25°	5994	5927	6017
30°	5912	5910	6049
35°	5820	5887	6090
40°	5733	5884	6131
45°	5623	5872	6179
50°	5640	5857	6227
55°	5540	5858	6302
60°	5339	5862	6388
65°	5043	5868	6507
70°	4715	5911	6690
75°	4136	6049	6959
80°	3491	6342	7410
85°	2596	6933	8063

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 90°

Luminance: 9177 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.0	1.7
10°-20°	216.2	4.9
20°-30°	343.7	7.9
30°-40°	441.1	10.1
40°-50°	498.1	11.4
50°-60°	508.2	11.6
60°-70°	470.8	10.8
70°-80°	398.6	9.1
80°-90°	318.2	7.3
90°-100°	270.2	6.2
100°-110°	240.7	5.5
110°-120°	205.0	4.7
120°-130°	162.9	3.7
130°-140°	115.5	2.6
140°-150°	69.0	1.6
150°-160°	32.2	0.7
160°-170°	7.6	0.2
170°-180°	0.0	0.0
0°-30°	632.9	14.5
0°-40°	1073.9	24.6
0°-60°	2080.3	47.6
0°-90°	3267.9	74.8
90°-120°	715.9	16.4
90°-150°	1063.3	24.3
90°-180°	1103.0	25.2
0°-180°	4371.0	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	743	769	784	789	208
25°	682	705	754	781	793	314
35°	603	647	717	761	780	377
45°	507	576	662	719	744	394
55°	411	480	586	658	687	361
65°	281	375	496	581	614	279
75°	148	262	402	500	535	157
85°	38	168	320	424	460	41
90°	2	138	287	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	175	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°	759.0	759.0	759.0	759.0	759.0
2.5°	766.2	758.0	762.1	761.1	757.0
5°	764.2	758.0	766.2	766.2	766.2
7.5°	760.1	756.0	767.3	771.4	772.4
10°	753.9	753.9	769.3	775.5	777.5
12.5°	745.7	748.8	769.3	778.6	783.7
15°	736.4	742.6	769.3	783.7	788.8
17.5°	725.1	735.4	767.3	784.7	791.9
20°	711.8	727.2	764.2	784.7	794.0
22.5°	697.4	716.9	760.1	782.7	794.0
25°	682.0	704.6	753.9	780.6	792.9
27.5°	663.5	692.3	746.7	777.5	791.9
30°	645.0	677.9	738.5	773.4	788.8
32.5°	624.5	662.5	728.2	767.3	784.7
35°	602.9	647.1	716.9	761.1	779.6
37.5°	581.3	628.6	705.6	752.9	773.4
40°	557.7	610.1	692.3	742.6	764.2
42.5°	540.3	590.6	677.9	732.3	754.9
45°	507.4	576.2	661.5	719.0	743.6
47.5°	481.7	548.5	645.0	705.6	731.3
50°	465.3	525.9	625.5	690.2	716.9
52.5°	426.3	510.5	607.0	674.8	703.6
55°	410.8	479.7	586.5	658.4	687.1
57.5°	368.7	458.1	565.9	639.9	669.7
60°	348.2	428.3	543.3	621.4	652.2
62.5°	316.4	402.6	520.7	600.9	632.7
65°	281.4	374.9	496.1	581.3	614.2
67.5°	248.6	347.2	472.5	560.8	595.7
70°	216.7	318.4	447.8	540.3	575.2
72.5°	179.7	289.6	424.2	520.7	555.7
75°	147.9	261.9	401.6	500.2	535.1
77.5°	117.1	235.2	380.0	481.7	516.6
80°	88.3	209.5	358.5	462.2	498.2
82.5°	61.6	188.0	338.9	443.7	478.6
85°	38.0	168.4	320.5	424.2	460.1
87.5°	17.5	151.0	302.0	405.7	442.7
90°	2.1	137.6	286.6	390.3	426.3
92.5°	1.0	133.5	280.4	383.1	418.0
95°	0.0	129.4	277.3	379.0	413.9
97.5°	0.0	125.3	270.1	372.8	408.8
100°	0.0	123.3	265.0	363.6	398.5
102.5°	0.0	120.2	258.8	355.4	390.3
105°	0.0	119.1	252.7	348.2	382.1
107.5°	0.0	117.1	246.5	338.9	372.8
110°	0.0	115.0	241.4	330.7	363.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	113.0	236.2	322.5	354.4
115°	0.0	110.9	230.1	313.3	344.1
117.5°	0.0	107.8	223.9	304.0	334.8
120°	0.0	103.7	217.7	295.8	324.6
122.5°	0.0	99.6	211.6	285.5	313.3
125°	0.0	95.5	204.4	276.3	303.0
127.5°	0.0	89.4	196.2	266.0	290.7
130°	0.0	83.2	185.9	255.8	279.4
132.5°	1.0	77.0	175.6	244.5	268.1
135°	0.0	70.9	164.3	233.2	254.7
137.5°	0.0	65.7	152.0	220.8	241.4
140°	0.0	59.6	139.7	206.4	228.0
142.5°	0.0	52.4	127.4	191.0	213.6
145°	0.0	46.2	115.0	174.6	199.3
147.5°	1.0	41.1	103.7	157.1	183.9
150°	1.0	37.0	92.4	139.7	166.4
152.5°	1.0	32.9	81.1	123.3	148.9
155°	1.0	28.8	70.9	106.8	132.5
157.5°	1.0	24.7	59.6	90.4	115.0
160°	1.0	21.6	49.3	76.0	98.6
162.5°	1.0	18.5	40.1	59.6	81.1
165°	1.0	15.4	31.8	44.2	62.7
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)