

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P284621

Luminaire Tested: **4SNLED-LD5-39SL-SLW-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P284621
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P#)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-39SL-SLW-UNV-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3056.0 lumens
Efficiency: N/A
Efficacy: 87.3 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

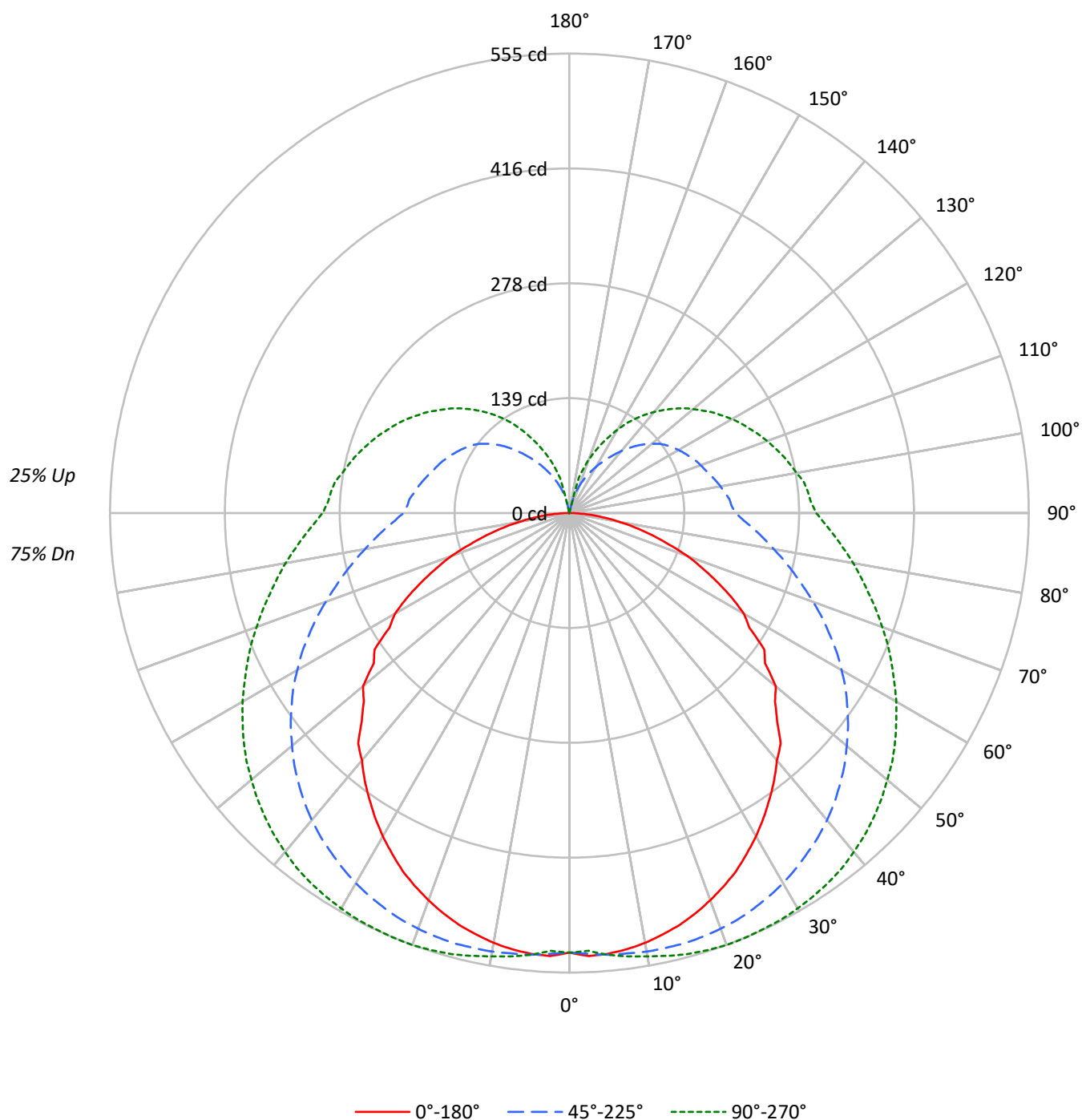
Input Watts (W): 35
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P284621

CATALOG NUMBER: 4SNLED-LD5-39SL-SLW-UNV-L930-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P284621

CATALOG NUMBER: 4SNLED-LD5-39SL-SLW-UNV-L930-CD1-U

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	50	30	10
RCR																				
0	113	113	113	113	107	107	107	107	97	97	97	88	88	88	79	79	79			75
1	100	94	89	84	95	89	84	80	80	76	73	72	69	66	64	62	60			56
2	90	80	72	66	85	76	69	63	68	63	58	61	57	53	55	51	48			44
3	81	69	60	53	76	66	58	51	59	53	47	53	48	43	47	43	39			36
4	74	61	51	44	69	58	49	43	52	45	39	47	41	36	42	37	33			30
5	67	54	44	37	63	51	43	36	46	39	33	42	35	31	37	32	28			25
6	62	48	39	32	58	46	37	31	41	34	29	37	31	27	34	28	24			22
7	57	43	34	28	54	41	33	27	37	30	25	34	28	23	30	25	21			19
8	53	39	31	25	50	37	29	24	34	27	22	31	25	21	28	23	19			17
9	49	36	27	22	47	34	26	21	31	24	20	28	23	18	26	21	17			15
10	46	33	25	20	44	31	24	19	29	22	18	26	21	16	24	19	15			13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4289	4289	4289
5°	4322	4238	4207
10°	4302	4201	4184
15°	4272	4178	4192
20°	4231	4159	4201
25°	4191	4144	4207
30°	4133	4131	4230
35°	4069	4117	4258
40°	4008	4114	4286
45°	3932	4104	4320
50°	3944	4096	4354
55°	3873	4095	4406
60°	3732	4098	4466
65°	3525	4103	4549
70°	3297	4134	4677
75°	2894	4229	4866
80°	2443	4433	5179
85°	1810	4845	5638



TEST NUMBER: P284621

CATALOG NUMBER: 4SNLED-LD5-39SL-SLW-UNV-L930-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.0	1.7
10°-20°	151.2	4.9
20°-30°	240.3	7.9
30°-40°	308.4	10.1
40°-50°	348.2	11.4
50°-60°	355.3	11.6
60°-70°	329.2	10.8
70°-80°	278.7	9.1
80°-90°	222.5	7.3
90°-100°	188.9	6.2
100°-110°	168.3	5.5
110°-120°	143.4	4.7
120°-130°	113.9	3.7
130°-140°	80.8	2.6
140°-150°	48.2	1.6
150°-160°	22.5	0.7
160°-170°	5.3	0.2
170°-180°	0.0	0.0
0°-30°	442.5	14.5
0°-40°	750.8	24.6
0°-60°	1454.4	47.6
0°-90°	2284.8	74.8
90°-120°	500.6	16.4
90°-150°	743.4	24.3
90°-180°	771.0	25.2
0°-180°	3056.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	531	531	531	531	531	
5°	534	530	536	536	536	51
15°	515	519	538	548	552	145
25°	477	493	527	546	554	220
35°	422	452	501	532	545	264
45°	355	403	462	503	520	276
55°	287	335	410	460	480	252
65°	197	262	347	406	429	195
75°	104	183	281	350	374	110
85°	26	118	224	296	322	29
90°	1	96	200	273	298	2
95°	0	90	194	265	289	0
105°	0	83	177	243	267	0
115°	0	78	161	219	240	0
125°	0	67	143	193	212	0
135°	0	50	115	163	178	0
145°	0	32	80	122	139	0
155°	1	20	50	75	93	0
165°	1	11	22	31	44	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P284621

CATALOG NUMBER: 4SNLED-LD5-39SL-SLW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	530.8	530.8	530.8	530.8	530.8
2.5°	535.6	530.0	532.9	532.1	529.2
5°	534.3	530.0	535.6	535.6	535.6
7.5°	531.4	528.4	536.4	539.3	540.1
10°	527.1	527.1	537.9	542.2	543.6
12.5°	521.3	523.4	537.9	544.3	547.8
15°	514.9	519.1	537.9	547.8	551.5
17.5°	506.9	514.1	536.4	548.6	553.6
20°	497.6	508.5	534.3	548.6	555.2
22.5°	487.6	501.3	531.4	547.2	555.2
25°	476.9	492.6	527.1	545.7	554.4
27.5°	463.9	484.1	522.0	543.6	553.6
30°	450.9	474.0	516.2	540.7	551.5
32.5°	436.6	463.1	509.1	536.4	548.6
35°	421.5	452.5	501.3	532.1	545.1
37.5°	406.4	439.5	493.4	526.3	540.7
40°	389.9	426.5	484.1	519.1	534.3
42.5°	377.7	412.9	474.0	512.0	527.9
45°	354.8	402.9	462.4	502.7	519.9
47.5°	336.8	383.5	450.9	493.4	511.2
50°	325.4	367.6	437.4	482.5	501.3
52.5°	298.0	356.9	424.4	471.9	491.8
55°	287.2	335.4	410.0	460.2	480.4
57.5°	257.7	320.3	395.7	447.4	468.2
60°	243.4	299.4	379.8	434.5	456.0
62.5°	221.1	281.6	364.1	420.1	442.4
65°	196.7	262.2	346.9	406.4	429.4
67.5°	173.8	242.8	330.4	392.0	416.4
70°	151.5	222.7	313.2	377.7	402.1
72.5°	125.6	202.5	296.5	364.1	388.5
75°	103.5	183.1	280.8	349.8	374.2
77.5°	81.8	164.5	265.7	336.8	361.2
80°	61.8	146.5	250.6	323.2	348.2
82.5°	43.0	131.4	237.0	310.2	334.7
85°	26.5	117.8	224.0	296.5	321.7
87.5°	12.2	105.6	211.0	283.7	309.5
90°	1.4	96.3	200.4	272.8	298.0
92.5°	0.8	93.4	196.1	267.8	292.2
95°	0.0	90.5	194.0	264.9	289.3
97.5°	0.0	87.6	188.9	260.6	285.8
100°	0.0	86.2	185.3	254.2	278.7
102.5°	0.0	84.1	181.0	248.4	272.8
105°	0.0	83.3	176.7	243.4	267.2
107.5°	0.0	81.8	172.3	237.0	260.6
110°	0.0	80.4	168.8	231.2	254.2



TEST NUMBER: P284621

CATALOG NUMBER: 4SNLED-LD5-39SL-SLW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	79.1	165.1	225.6	247.7
115°	0.0	77.5	160.8	219.0	240.5
117.5°	0.0	75.4	156.6	212.6	234.1
120°	0.0	72.5	152.3	206.8	226.9
122.5°	0.0	69.6	147.9	199.6	219.0
125°	0.0	66.9	142.8	193.2	211.8
127.5°	0.0	62.4	137.2	186.0	203.3
130°	0.0	58.1	130.0	178.9	195.3
132.5°	0.8	53.9	122.9	170.9	187.4
135°	0.0	49.6	114.9	163.0	178.1
137.5°	0.0	45.9	106.2	154.4	168.8
140°	0.0	41.7	97.7	144.4	159.5
142.5°	0.0	36.6	89.1	133.5	149.4
145°	0.0	32.4	80.4	122.1	139.3
147.5°	0.8	28.7	72.5	109.9	128.5
150°	0.8	25.8	64.7	97.7	116.3
152.5°	0.8	23.1	56.8	86.2	104.1
155°	0.8	20.2	49.6	74.6	92.6
157.5°	0.8	17.2	41.7	63.2	80.4
160°	0.8	15.1	34.5	53.1	69.0
162.5°	0.8	13.0	28.1	41.7	56.8
165°	0.8	10.9	22.3	30.8	43.8
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)