

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: P284582

Luminaire Tested: **4SNLED-LD5-39SL-SLW-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P284582
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-L850-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3927.0 lumens
Efficiency: N/A
Efficacy: 112.2 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

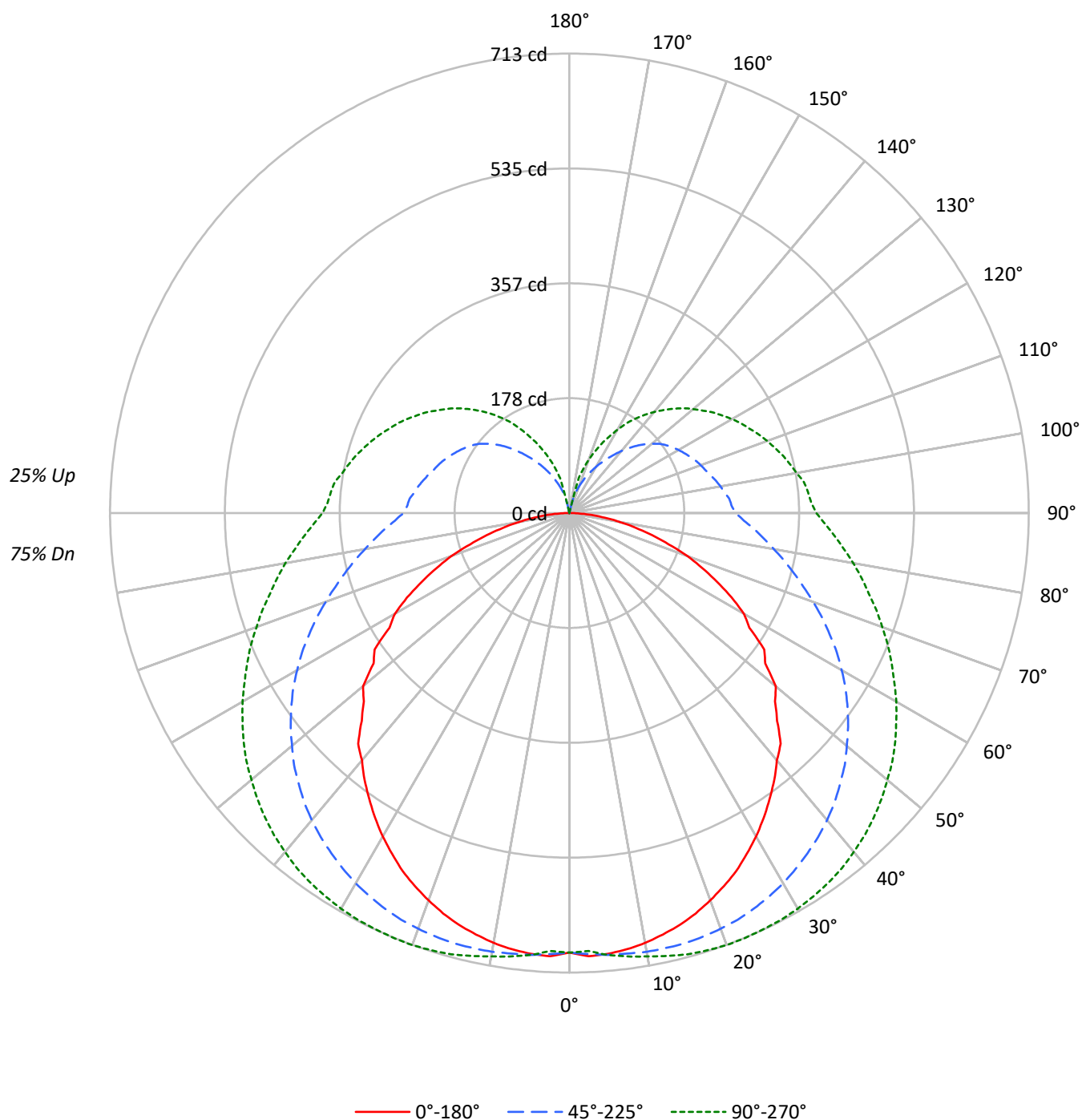
Input Watts (W): 35
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	5511	5511	5511
5°	5554	5446	5406
10°	5527	5399	5376
15°	5489	5370	5387
20°	5438	5344	5398
25°	5386	5325	5406
30°	5312	5309	5435
35°	5229	5290	5472
40°	5150	5286	5507
45°	5052	5273	5551
50°	5068	5262	5596
55°	4977	5262	5662
60°	4796	5266	5738
65°	4528	5272	5846
70°	4236	5312	6010
75°	3719	5434	6253
80°	3139	5696	6656
85°	2330	6227	7245



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.5	1.7
10°-20°	194.3	4.9
20°-30°	308.8	7.9
30°-40°	396.3	10.1
40°-50°	447.5	11.4
50°-60°	456.6	11.6
60°-70°	423.0	10.8
70°-80°	358.1	9.1
80°-90°	285.9	7.3
90°-100°	242.8	6.2
100°-110°	216.3	5.5
110°-120°	184.2	4.7
120°-130°	146.3	3.7
130°-140°	103.8	2.6
140°-150°	62.0	1.6
150°-160°	28.9	0.7
160°-170°	6.9	0.2
170°-180°	0.0	0.0
0°-30°	568.6	14.5
0°-40°	964.8	24.6
0°-60°	1868.9	47.6
0°-90°	2935.9	74.8
90°-120°	643.2	16.4
90°-150°	955.3	24.3
90°-180°	991.0	25.2
0°-180°	3927.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	682	682	682	682	682	
5°	686	681	688	688	688	65
15°	662	667	691	704	709	187
25°	613	633	677	701	712	282
35°	542	581	644	684	700	339
45°	456	518	594	646	668	354
55°	369	431	527	591	617	324
65°	253	337	446	522	552	251
75°	133	235	361	450	481	141
85°	34	151	288	381	413	37
90°	2	124	258	351	383	3
95°	0	116	249	340	372	0
105°	0	107	227	313	343	0
115°	0	100	207	281	309	0
125°	0	86	184	248	272	0
135°	0	64	148	209	229	0
145°	0	42	103	157	179	0
155°	1	26	64	96	119	0
165°	1	14	29	40	56	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°	682.0	682.0	682.0	682.0	682.0
2.5°	688.3	681.0	684.8	683.8	680.1
5°	686.5	681.0	688.3	688.3	688.3
7.5°	682.8	679.1	689.3	693.0	694.0
10°	677.3	677.3	691.3	696.7	698.5
12.5°	669.8	672.6	691.3	699.5	704.0
15°	661.6	667.1	691.3	704.0	708.7
17.5°	651.4	660.6	689.3	705.0	711.4
20°	639.5	653.4	686.5	705.0	713.4
22.5°	626.5	644.2	682.8	703.2	713.4
25°	612.8	633.0	677.3	701.2	712.4
27.5°	596.1	622.0	670.8	698.5	711.4
30°	579.5	609.1	663.4	694.7	708.7
32.5°	561.0	595.1	654.2	689.3	705.0
35°	541.6	581.4	644.2	683.8	700.5
37.5°	522.2	564.8	634.0	676.3	694.7
40°	501.0	548.1	622.0	667.1	686.5
42.5°	485.3	530.6	609.1	657.9	678.3
45°	455.9	517.7	594.1	645.9	668.1
47.5°	432.8	492.8	579.5	634.0	656.9
50°	418.1	472.4	562.0	620.0	644.2
52.5°	383.0	458.7	545.3	606.3	632.0
55°	369.0	431.0	526.9	591.4	617.3
57.5°	331.2	411.6	508.5	575.0	601.6
60°	312.8	384.7	488.1	558.3	585.9
62.5°	284.1	361.8	467.9	539.9	568.5
65°	252.7	336.9	445.7	522.2	551.8
67.5°	223.4	312.0	424.6	503.8	535.1
70°	194.7	286.1	402.4	485.3	516.7
72.5°	161.4	260.2	381.0	467.9	499.3
75°	133.0	235.3	360.8	449.5	480.8
77.5°	105.1	211.4	341.4	432.8	464.2
80°	79.4	188.3	322.0	415.4	447.5
82.5°	55.3	168.8	304.5	398.7	430.0
85°	34.1	151.4	287.9	381.0	413.4
87.5°	15.7	135.7	271.2	364.6	397.7
90°	1.7	123.8	257.5	350.6	383.0
92.5°	1.0	120.0	252.0	344.1	375.5
95°	0.0	116.3	249.3	340.4	371.8
97.5°	0.0	112.6	242.8	334.9	367.3
100°	0.0	110.8	238.1	326.7	358.1
102.5°	0.0	108.1	232.6	319.2	350.6
105°	0.0	107.1	227.1	312.8	343.4
107.5°	0.0	105.1	221.4	304.5	334.9
110°	0.0	103.3	216.9	297.1	326.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	101.6	212.2	289.9	318.2
115°	0.0	99.6	206.7	281.4	309.0
117.5°	0.0	96.9	201.2	273.2	300.8
120°	0.0	93.1	195.7	265.7	291.6
122.5°	0.0	89.4	190.0	256.5	281.4
125°	0.0	85.9	183.5	248.3	272.2
127.5°	0.0	80.2	176.3	239.1	261.2
130°	0.0	74.7	167.1	229.8	251.0
132.5°	1.0	69.2	157.9	219.6	240.8
135°	0.0	63.7	147.7	209.4	228.8
137.5°	0.0	59.0	136.5	198.5	216.9
140°	0.0	53.5	125.5	185.5	204.9
142.5°	0.0	47.1	114.5	171.6	192.0
145°	0.0	41.6	103.3	156.9	179.0
147.5°	1.0	36.9	93.1	141.2	165.1
150°	1.0	33.1	83.2	125.5	149.4
152.5°	1.0	29.6	73.0	110.8	133.7
155°	1.0	25.9	63.7	95.9	119.0
157.5°	1.0	22.2	53.5	81.2	103.3
160°	1.0	19.4	44.3	68.2	88.6
162.5°	1.0	16.7	36.1	53.5	73.0
165°	1.0	13.9	28.6	39.6	56.3
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)