

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: P284699

Luminaire Tested: **4SNLED-LD5-39SL-SLW-UNV-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P284699
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-L940-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3320.0 lumens
Efficiency: N/A
Efficacy: 94.9 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

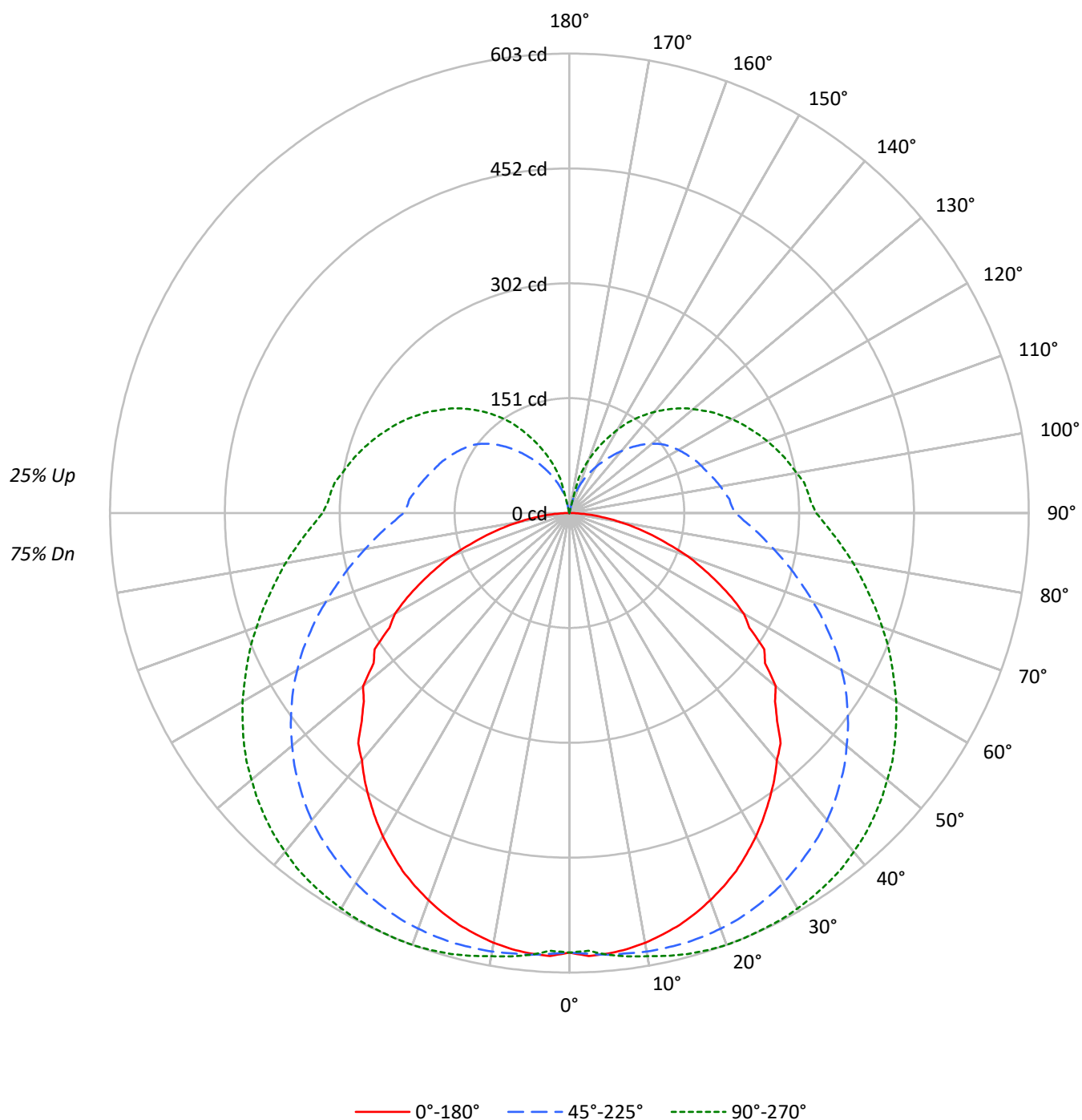
Input Watts (W): 35
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	0
RCR																				
0	113	113	113	113	107	107	107	107	97	97	97	88	88	88	79	79	79	75		75
1	100	94	89	84	95	89	84	80	80	76	73	72	69	66	64	62	60	56		56
2	90	80	72	66	85	76	69	63	68	63	58	61	57	53	55	51	48	44		44
3	81	69	60	53	76	66	58	51	59	53	47	53	48	43	47	43	39	36		36
4	74	61	51	44	69	58	49	43	52	45	39	47	41	36	42	37	33	30		30
5	67	54	44	37	63	51	43	36	46	39	33	42	35	31	37	32	28	25		25
6	62	48	39	32	58	46	37	31	41	34	29	37	31	27	34	28	24	22		22
7	57	43	34	28	54	41	33	27	37	30	25	34	28	23	30	25	21	19		19
8	53	39	31	25	50	37	29	24	34	27	22	31	25	21	28	23	19	17		17
9	49	36	27	22	47	34	26	21	31	24	20	28	23	18	26	21	17	15		15
10	46	33	25	20	44	31	24	19	29	22	18	26	21	16	24	19	15	13		13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4660	4660	4660
5°	4695	4604	4570
10°	4673	4564	4545
15°	4641	4539	4554
20°	4597	4518	4563
25°	4553	4502	4570
30°	4490	4488	4595
35°	4421	4472	4626
40°	4354	4469	4656
45°	4272	4458	4693
50°	4285	4449	4730
55°	4208	4449	4787
60°	4054	4452	4852
65°	3830	4457	4942
70°	3582	4491	5081
75°	3143	4594	5286
80°	2656	4815	5627
85°	1968	5265	6125



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.4	1.7
10°-20°	164.2	4.9
20°-30°	261.0	7.9
30°-40°	335.0	10.1
40°-50°	378.3	11.4
50°-60°	386.0	11.6
60°-70°	357.6	10.8
70°-80°	302.8	9.1
80°-90°	241.7	7.3
90°-100°	205.2	6.2
100°-110°	182.9	5.5
110°-120°	155.7	4.7
120°-130°	123.7	3.7
130°-140°	87.8	2.6
140°-150°	52.4	1.6
150°-160°	24.4	0.7
160°-170°	5.8	0.2
170°-180°	0.0	0.0
0°-30°	480.7	14.5
0°-40°	815.7	24.6
0°-60°	1580.0	47.6
0°-90°	2482.1	74.8
90°-120°	543.8	16.4
90°-150°	807.6	24.3
90°-180°	838.0	25.2
0°-180°	3320.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	577	577	577	577	577	
5°	580	576	582	582	582	55
15°	559	564	584	595	599	158
25°	518	535	573	593	602	239
35°	458	492	545	578	592	287
45°	386	438	502	546	565	299
55°	312	364	446	500	522	274
65°	214	285	377	442	466	212
75°	112	199	305	380	406	120
85°	29	128	243	322	350	31
90°	2	105	218	296	324	2
95°	0	98	211	288	314	0
105°	0	90	192	264	290	0
115°	0	84	175	238	261	0
125°	0	73	155	210	230	0
135°	0	54	125	177	194	0
145°	0	35	87	133	151	0
155°	1	22	54	81	101	0
165°	1	12	24	34	48	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°	576.6	576.6	576.6	576.6	576.6
2.5°	581.9	575.8	578.9	578.1	574.9
5°	580.4	575.8	581.9	581.9	581.9
7.5°	577.3	574.1	582.7	585.9	586.7
10°	572.6	572.6	584.4	589.0	590.5
12.5°	566.3	568.6	584.4	591.4	595.1
15°	559.4	564.0	584.4	595.1	599.1
17.5°	550.7	558.5	582.7	596.0	601.5
20°	540.6	552.4	580.4	596.0	603.1
22.5°	529.7	544.6	577.3	594.5	603.1
25°	518.1	535.1	572.6	592.8	602.3
27.5°	504.0	525.9	567.1	590.5	601.5
30°	489.9	514.9	560.8	587.4	599.1
32.5°	474.3	503.1	553.0	582.7	596.0
35°	457.9	491.6	544.6	578.1	592.2
37.5°	441.5	477.5	536.0	571.8	587.4
40°	423.6	463.4	525.9	564.0	580.4
42.5°	410.3	448.6	514.9	556.2	573.5
45°	385.5	437.7	502.3	546.1	564.8
47.5°	365.9	416.6	489.9	536.0	555.4
50°	353.5	399.4	475.1	524.2	544.6
52.5°	323.8	387.8	461.0	512.6	534.3
55°	312.0	364.4	445.5	500.0	521.9
57.5°	280.0	348.0	429.9	486.1	508.6
60°	264.4	325.3	412.6	472.0	495.4
62.5°	240.2	305.9	395.6	456.4	480.6
65°	213.7	284.8	376.8	441.5	466.5
67.5°	188.8	263.8	358.9	425.9	452.4
70°	164.6	241.9	340.2	410.3	436.8
72.5°	136.4	220.0	322.1	395.6	422.1
75°	112.4	198.9	305.0	380.0	406.5
77.5°	88.8	178.7	288.6	365.9	392.4
80°	67.2	159.2	272.2	351.2	378.3
82.5°	46.7	142.7	257.5	337.0	363.6
85°	28.8	128.0	243.4	322.1	349.5
87.5°	13.3	114.7	229.3	308.2	336.2
90°	1.5	104.6	217.7	296.4	323.8
92.5°	0.8	101.5	213.0	290.9	317.5
95°	0.0	98.3	210.7	287.8	314.3
97.5°	0.0	95.2	205.3	283.2	310.5
100°	0.0	93.7	201.3	276.2	302.7
102.5°	0.0	91.4	196.6	269.9	296.4
105°	0.0	90.5	192.0	264.4	290.3
107.5°	0.0	88.8	187.2	257.5	283.2
110°	0.0	87.4	183.4	251.2	276.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	85.9	179.4	245.0	269.0
115°	0.0	84.2	174.7	237.9	261.3
117.5°	0.0	81.9	170.1	230.9	254.3
120°	0.0	78.7	165.5	224.6	246.5
122.5°	0.0	75.6	160.6	216.8	237.9
125°	0.0	72.6	155.2	209.9	230.1
127.5°	0.0	67.8	149.0	202.1	220.8
130°	0.0	63.2	141.3	194.3	212.2
132.5°	0.8	58.5	133.5	185.7	203.6
135°	0.0	53.9	124.8	177.0	193.5
137.5°	0.0	49.9	115.4	167.8	183.4
140°	0.0	45.3	106.1	156.8	173.3
142.5°	0.0	39.8	96.8	145.1	162.3
145°	0.0	35.2	87.4	132.6	151.4
147.5°	0.8	31.2	78.7	119.4	139.6
150°	0.8	28.0	70.3	106.1	126.3
152.5°	0.8	25.1	61.7	93.7	113.1
155°	0.8	21.9	53.9	81.1	100.6
157.5°	0.8	18.7	45.3	68.6	87.4
160°	0.8	16.4	37.5	57.7	74.9
162.5°	0.8	14.1	30.5	45.3	61.7
165°	0.8	11.8	24.2	33.5	47.6
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)