

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: P284465

Luminaire Tested: **4SNLED-LD5-39SL-SLW-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P284465
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-L830-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3796.0 lumens
Efficiency: N/A
Efficacy: 108.5 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

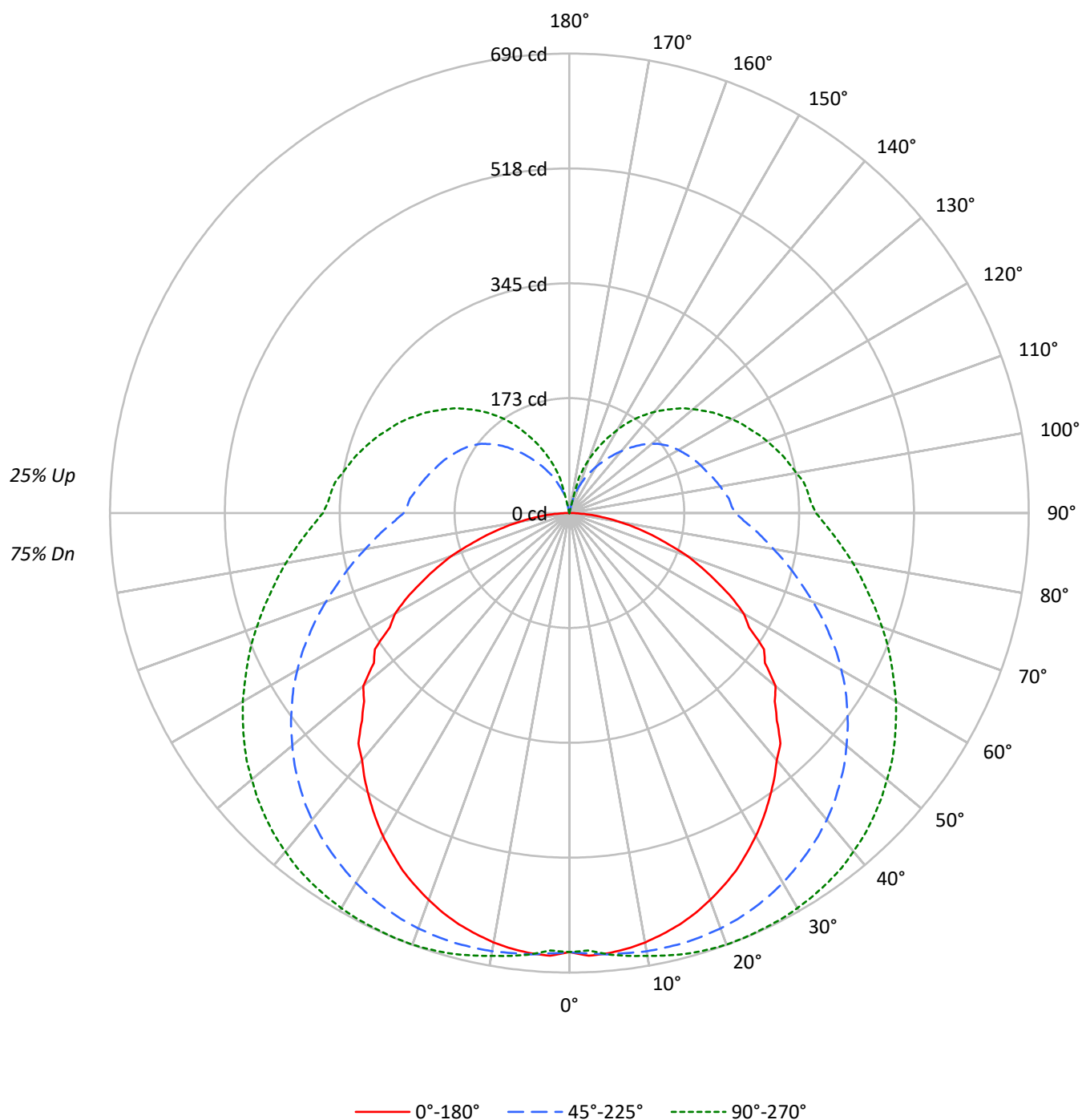
Input Watts (W): 35
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	5328	5328	5328
5°	5368	5264	5225
10°	5343	5218	5197
15°	5307	5190	5207
20°	5256	5166	5217
25°	5206	5147	5226
30°	5134	5131	5253
35°	5054	5114	5289
40°	4978	5110	5324
45°	4884	5098	5366
50°	4898	5087	5409
55°	4811	5087	5473
60°	4635	5090	5547
65°	4378	5097	5651
70°	4095	5135	5810
75°	3593	5253	6044
80°	3036	5505	6433
85°	2254	6020	7003



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.4	1.7
10°-20°	187.8	4.9
20°-30°	298.5	7.9
30°-40°	383.0	10.1
40°-50°	432.5	11.4
50°-60°	441.4	11.6
60°-70°	408.9	10.8
70°-80°	346.2	9.1
80°-90°	276.3	7.3
90°-100°	234.6	6.2
100°-110°	209.1	5.5
110°-120°	178.1	4.7
120°-130°	141.4	3.7
130°-140°	100.3	2.6
140°-150°	59.9	1.6
150°-160°	27.9	0.7
160°-170°	6.6	0.2
170°-180°	0.0	0.0
0°-30°	549.6	14.5
0°-40°	932.6	24.6
0°-60°	1806.6	47.6
0°-90°	2838.0	74.8
90°-120°	621.8	16.4
90°-150°	923.4	24.3
90°-180°	958.0	25.2
0°-180°	3796.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	659	659	659	659	659	
5°	664	658	665	665	665	63
15°	640	645	668	680	685	180
25°	592	612	655	678	689	273
35°	524	562	623	661	677	328
45°	441	500	574	624	646	342
55°	357	417	509	572	597	313
65°	244	326	431	505	533	242
75°	128	228	349	434	465	137
85°	33	146	278	368	400	36
90°	2	120	249	339	370	3
95°	0	112	241	329	359	0
105°	0	104	220	302	332	0
115°	0	96	200	272	299	0
125°	0	83	177	240	263	0
135°	0	62	143	202	221	0
145°	0	40	100	152	173	0
155°	1	25	62	93	115	0
165°	1	14	28	38	54	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°	659.3	659.3	659.3	659.3	659.3
2.5°	665.3	658.3	661.9	661.0	657.4
5°	663.6	658.3	665.3	665.3	665.3
7.5°	660.0	656.4	666.3	669.9	670.8
10°	654.7	654.7	668.2	673.5	675.2
12.5°	647.5	650.1	668.2	676.1	680.5
15°	639.6	644.9	668.2	680.5	685.0
17.5°	629.7	638.6	666.3	681.4	687.7
20°	618.1	631.6	663.6	681.4	689.6
22.5°	605.6	622.7	660.0	679.8	689.6
25°	592.4	611.9	654.7	677.8	688.7
27.5°	576.2	601.3	648.5	675.2	687.7
30°	560.1	588.8	641.2	671.6	685.0
32.5°	542.3	575.3	632.3	666.3	681.4
35°	523.5	562.0	622.7	661.0	677.1
37.5°	504.8	545.9	612.8	653.8	671.6
40°	484.3	529.8	601.3	644.9	663.6
42.5°	469.1	512.9	588.8	635.9	655.7
45°	440.7	500.4	574.3	624.4	645.8
47.5°	418.3	476.4	560.1	612.8	635.0
50°	404.1	456.6	543.3	599.4	622.7
52.5°	370.2	443.4	527.1	586.1	610.9
55°	356.7	416.7	509.3	571.7	596.7
57.5°	320.1	397.9	491.5	555.8	581.5
60°	302.3	371.9	471.8	539.7	566.4
62.5°	274.6	349.7	452.3	521.9	549.5
65°	244.3	325.7	430.9	504.8	533.4
67.5°	215.9	301.6	410.4	486.9	517.3
70°	188.2	276.6	389.0	469.1	499.5
72.5°	156.0	251.5	368.3	452.3	482.6
75°	128.5	227.5	348.8	434.5	464.8
77.5°	101.6	204.4	330.0	418.3	448.7
80°	76.8	182.0	311.2	401.5	432.5
82.5°	53.4	163.2	294.4	385.4	415.7
85°	33.0	146.3	278.3	368.3	399.6
87.5°	15.2	131.2	262.1	352.4	384.4
90°	1.7	119.6	248.9	338.9	370.2
92.5°	1.0	116.0	243.6	332.7	363.0
95°	0.0	112.4	240.9	329.0	359.4
97.5°	0.0	108.8	234.7	323.7	355.0
100°	0.0	107.1	230.1	315.8	346.1
102.5°	0.0	104.5	224.8	308.6	338.9
105°	0.0	103.5	219.5	302.3	331.9
107.5°	0.0	101.6	214.0	294.4	323.7
110°	0.0	99.9	209.7	287.2	315.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	98.2	205.1	280.2	307.6
115°	0.0	96.3	199.8	272.0	298.7
117.5°	0.0	93.6	194.5	264.1	290.8
120°	0.0	90.0	189.2	256.8	281.9
122.5°	0.0	86.4	183.7	247.9	272.0
125°	0.0	83.0	177.4	240.0	263.1
127.5°	0.0	77.5	170.4	231.1	252.5
130°	0.0	72.2	161.5	222.2	242.6
132.5°	1.0	66.9	152.6	212.3	232.8
135°	0.0	61.6	142.7	202.4	221.2
137.5°	0.0	57.0	131.9	191.8	209.7
140°	0.0	51.8	121.3	179.3	198.1
142.5°	0.0	45.5	110.7	165.8	185.6
145°	0.0	40.2	99.9	151.6	173.1
147.5°	1.0	35.6	90.0	136.5	159.6
150°	1.0	32.0	80.4	121.3	144.4
152.5°	1.0	28.6	70.5	107.1	129.3
155°	1.0	25.0	61.6	92.7	115.1
157.5°	1.0	21.4	51.8	78.5	99.9
160°	1.0	18.8	42.8	66.0	85.7
162.5°	1.0	16.1	34.9	51.8	70.5
165°	1.0	13.5	27.7	38.3	54.4
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)