

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: P284504

Luminaire Tested: **4SNLED-LD5-39SL-SLW-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P284504
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-L835-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3862.0 lumens
Efficiency: N/A
Efficacy: 110.3 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

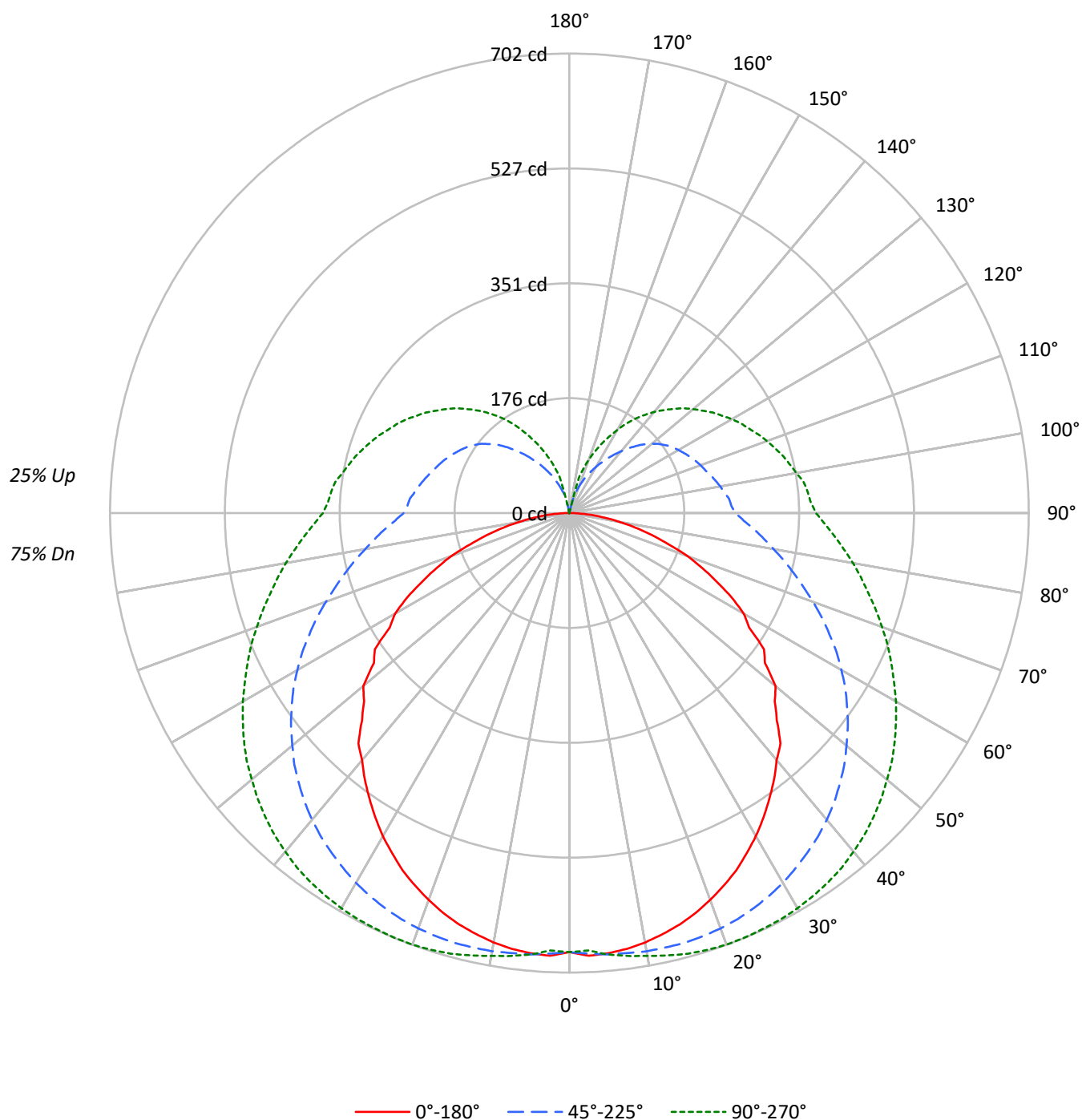
Input Watts (W): 35
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5421	5421	5421
5°	5462	5356	5316
10°	5436	5309	5287
15°	5399	5280	5298
20°	5347	5256	5308
25°	5297	5237	5316
30°	5224	5221	5345
35°	5142	5202	5382
40°	5065	5199	5417
45°	4969	5186	5459
50°	4984	5175	5503
55°	4894	5176	5568
60°	4716	5179	5643
65°	4455	5185	5749
70°	4167	5223	5910
75°	3657	5344	6150
80°	3087	5601	6546
85°	2295	6124	7124



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.5	1.7
10°-20°	191.1	4.9
20°-30°	303.6	7.9
30°-40°	389.7	10.1
40°-50°	440.1	11.4
50°-60°	449.0	11.6
60°-70°	416.0	10.8
70°-80°	352.2	9.1
80°-90°	281.1	7.3
90°-100°	238.7	6.2
100°-110°	212.7	5.5
110°-120°	181.2	4.7
120°-130°	143.9	3.7
130°-140°	102.1	2.6
140°-150°	60.9	1.6
150°-160°	28.4	0.7
160°-170°	6.8	0.2
170°-180°	0.0	0.0
0°-30°	559.2	14.5
0°-40°	948.9	24.6
0°-60°	1838.0	47.6
0°-90°	2887.3	74.8
90°-120°	632.6	16.4
90°-150°	939.5	24.3
90°-180°	975.0	25.2
0°-180°	3862.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	671	671	671	671	671	
5°	675	670	677	677	677	64
15°	651	656	680	692	697	184
25°	603	622	666	690	701	277
35°	533	572	634	672	689	333
45°	448	509	584	635	657	348
55°	363	424	518	582	607	319
65°	249	331	438	514	543	247
75°	131	231	355	442	473	139
85°	34	149	283	375	406	37
90°	2	122	253	345	377	3
95°	0	114	245	335	366	0
105°	0	105	223	308	338	0
115°	0	98	203	277	304	0
125°	0	84	180	244	268	0
135°	0	63	145	206	225	0
145°	0	41	102	154	176	0
155°	1	26	63	94	117	0
165°	1	14	28	39	55	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°	670.8	670.8	670.8	670.8	670.8
2.5°	676.9	669.8	673.5	672.5	668.8
5°	675.2	669.8	676.9	676.9	676.9
7.5°	671.5	667.8	677.9	681.5	682.5
10°	666.1	666.1	679.8	685.2	686.9
12.5°	658.8	661.5	679.8	687.9	692.3
15°	650.7	656.1	679.8	692.3	697.0
17.5°	640.6	649.7	677.9	693.3	699.7
20°	628.9	642.6	675.2	693.3	701.6
22.5°	616.1	633.5	671.5	691.6	701.6
25°	602.7	622.5	666.1	689.6	700.6
27.5°	586.3	611.7	659.7	686.9	699.7
30°	569.9	599.0	652.4	683.2	697.0
32.5°	551.7	585.3	643.3	677.9	693.3
35°	532.6	571.8	633.5	672.5	688.9
37.5°	513.5	555.4	623.5	665.1	683.2
40°	492.7	539.0	611.7	656.1	675.2
42.5°	477.3	521.9	599.0	647.0	667.1
45°	448.4	509.1	584.3	635.2	657.0
47.5°	425.6	484.6	569.9	623.5	646.0
50°	411.2	464.6	552.7	609.8	633.5
52.5°	376.6	451.1	536.3	596.3	621.5
55°	362.9	423.9	518.2	581.6	607.1
57.5°	325.7	404.8	500.1	565.5	591.7
60°	307.6	378.4	480.0	549.0	576.2
62.5°	279.4	355.8	460.2	530.9	559.1
65°	248.6	331.3	438.4	513.5	542.7
67.5°	219.7	306.8	417.5	495.4	526.3
70°	191.5	281.4	395.7	477.3	508.1
72.5°	158.7	255.9	374.7	460.2	491.0
75°	130.8	231.4	354.8	442.0	472.9
77.5°	103.3	207.9	335.7	425.6	456.5
80°	78.1	185.1	316.6	408.5	440.1
82.5°	54.4	166.0	299.5	392.1	422.9
85°	33.6	148.9	283.1	374.7	406.5
87.5°	15.4	133.5	266.7	358.5	391.1
90°	1.7	121.7	253.2	344.8	376.6
92.5°	1.0	118.0	247.8	338.4	369.3
95°	0.0	114.4	245.1	334.8	365.6
97.5°	0.0	110.7	238.8	329.4	361.2
100°	0.0	109.0	234.1	321.3	352.2
102.5°	0.0	106.3	228.7	314.0	344.8
105°	0.0	105.3	223.3	307.6	337.7
107.5°	0.0	103.3	217.7	299.5	329.4
110°	0.0	101.6	213.3	292.2	321.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	99.9	208.6	285.1	313.0
115°	0.0	98.0	203.3	276.7	303.9
117.5°	0.0	95.3	197.9	268.6	295.8
120°	0.0	91.6	192.5	261.3	286.8
122.5°	0.0	87.9	186.9	252.2	276.7
125°	0.0	84.5	180.5	244.2	267.7
127.5°	0.0	78.9	173.4	235.1	256.9
130°	0.0	73.5	164.3	226.0	246.9
132.5°	1.0	68.1	155.3	216.0	236.8
135°	0.0	62.7	145.2	206.0	225.1
137.5°	0.0	58.0	134.2	195.2	213.3
140°	0.0	52.7	123.4	182.4	201.5
142.5°	0.0	46.3	112.6	168.7	188.8
145°	0.0	40.9	101.6	154.3	176.1
147.5°	1.0	36.2	91.6	138.9	162.4
150°	1.0	32.6	81.8	123.4	146.9
152.5°	1.0	29.1	71.8	109.0	131.5
155°	1.0	25.5	62.7	94.3	117.1
157.5°	1.0	21.8	52.7	79.8	101.6
160°	1.0	19.1	43.6	67.1	87.2
162.5°	1.0	16.4	35.5	52.7	71.8
165°	1.0	13.7	28.2	38.9	55.3
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)