

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: P284476

Luminaire Tested: **4SNLED-LD5-57HL-SLW-UNV-L830-CD1-U**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P284476
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-LD5-57HL-SLW-UNV-L830-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5603.0 lumens
Efficiency: N/A
Efficacy: 116.7 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

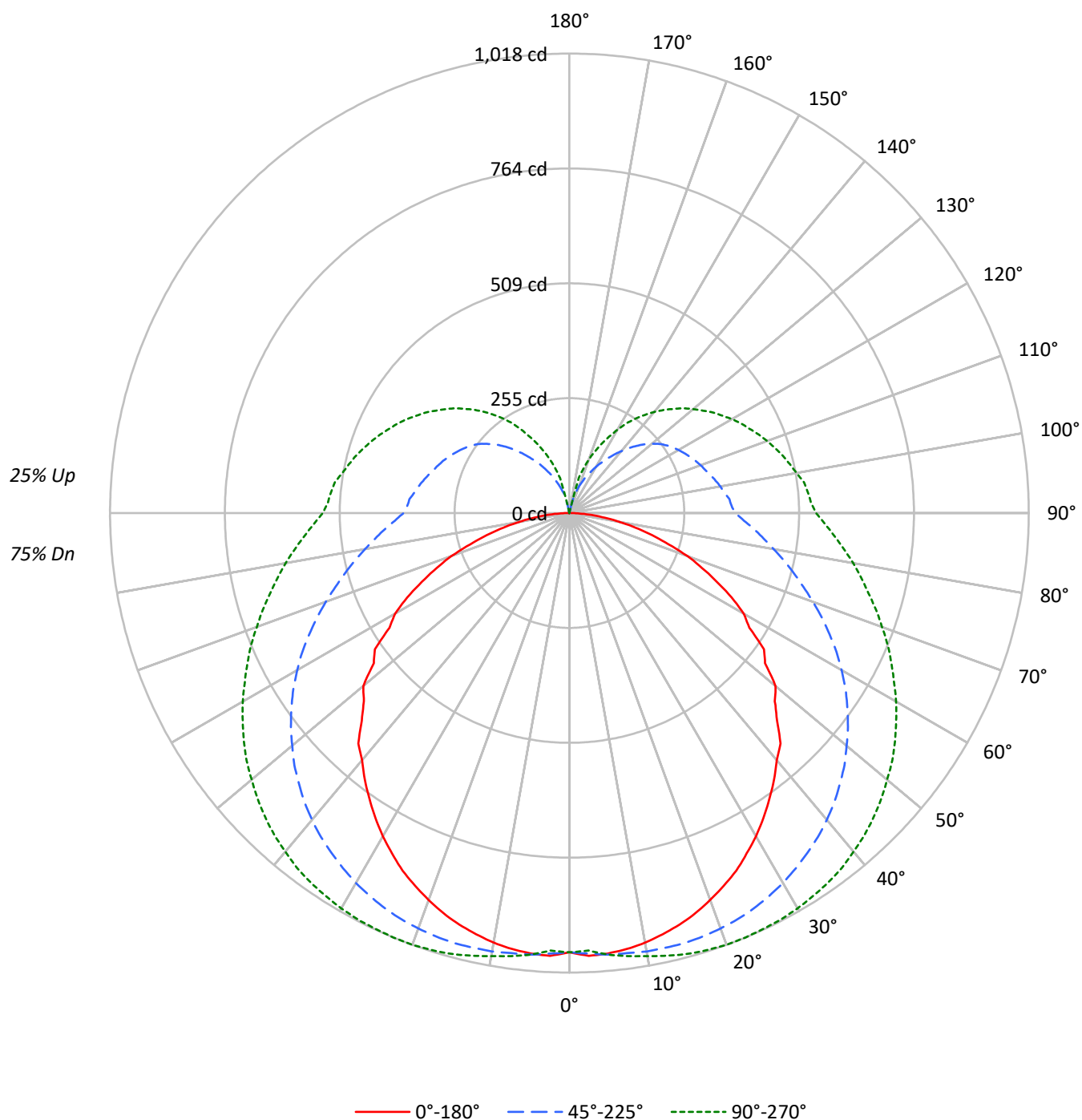
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	7864	7864	7864
5°	7924	7770	7713
10°	7887	7703	7670
15°	7832	7661	7687
20°	7758	7625	7701
25°	7685	7598	7713
30°	7578	7575	7755
35°	7461	7547	7807
40°	7348	7543	7858
45°	7209	7524	7920
50°	7230	7508	7983
55°	7101	7509	8079
60°	6841	7513	8188
65°	6462	7523	8340
70°	6045	7578	8575
75°	5304	7753	8922
80°	4479	8127	9497
85°	3327	8884	10336



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.5	1.7
10°-20°	277.2	4.9
20°-30°	440.5	7.9
30°-40°	565.4	10.1
40°-50°	638.5	11.4
50°-60°	651.5	11.6
60°-70°	603.6	10.8
70°-80°	511.0	9.1
80°-90°	407.9	7.3
90°-100°	346.4	6.2
100°-110°	308.6	5.5
110°-120°	262.8	4.7
120°-130°	208.7	3.7
130°-140°	148.1	2.6
140°-150°	88.4	1.6
150°-160°	41.2	0.7
160°-170°	9.8	0.2
170°-180°	0.0	0.0
0°-30°	811.2	14.5
0°-40°	1376.6	24.6
0°-60°	2666.5	47.6
0°-90°	4188.9	74.8
90°-120°	917.8	16.4
90°-150°	1363.0	24.3
90°-180°	1414.0	25.2
0°-180°	5603.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	973	973	973	973	973	
5°	980	972	982	982	982	93
15°	944	952	986	1004	1011	266
25°	874	903	966	1000	1016	403
35°	773	830	919	976	999	484
45°	650	739	848	922	953	505
55°	526	615	752	844	881	462
65°	361	481	636	745	787	358
75°	190	336	515	641	686	202
85°	49	216	411	544	590	53
90°	2	177	367	500	546	4
95°	0	166	356	486	530	0
105°	0	153	324	446	490	0
115°	0	142	295	402	441	0
125°	0	123	262	354	388	0
135°	0	91	211	299	326	0
145°	0	59	147	224	256	1
155°	1	37	91	137	170	1
165°	1	20	41	56	80	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°	973.1	973.1	973.1	973.1	973.1
2.5°	982.0	971.7	977.0	975.6	970.3
5°	979.5	971.7	982.0	982.0	982.0
7.5°	974.2	968.9	983.4	988.8	990.2
10°	966.4	966.4	986.3	994.1	996.6
12.5°	955.7	959.6	986.3	998.0	1004.4
15°	944.0	951.8	986.3	1004.4	1011.2
17.5°	929.4	942.6	983.4	1005.8	1015.1
20°	912.4	932.3	979.5	1005.8	1017.9
22.5°	893.9	919.1	974.2	1003.3	1017.9
25°	874.4	903.1	966.4	1000.5	1016.5
27.5°	850.6	887.5	957.1	996.6	1015.1
30°	826.8	869.0	946.5	991.3	1011.2
32.5°	800.5	849.1	933.3	983.4	1005.8
35°	772.8	829.6	919.1	975.6	999.4
37.5°	745.0	805.8	904.6	965.0	991.3
40°	714.8	782.0	887.5	951.8	979.5
42.5°	692.5	757.1	869.0	938.7	967.8
45°	650.5	738.6	847.7	921.6	953.2
47.5°	617.5	703.1	826.8	904.6	937.3
50°	596.5	674.0	801.9	884.7	919.1
52.5°	546.4	654.4	778.1	865.1	901.7
55°	526.5	615.0	751.8	843.8	880.8
57.5°	472.5	587.3	725.5	820.4	858.4
60°	446.2	548.9	696.4	796.6	836.0
62.5°	405.4	516.2	667.6	770.3	811.1
65°	360.6	480.7	636.0	745.0	787.3
67.5°	318.7	445.2	605.8	718.7	763.5
70°	277.8	408.2	574.1	692.5	737.2
72.5°	230.2	371.3	543.6	667.6	712.4
75°	189.7	335.7	514.8	641.3	686.1
77.5°	149.9	301.6	487.1	617.5	662.3
80°	113.3	268.6	459.4	592.6	638.5
82.5°	78.9	240.9	434.5	568.8	613.6
85°	48.7	216.0	410.7	543.6	589.8
87.5°	22.4	193.6	386.9	520.1	567.4
90°	2.5	176.6	367.4	500.2	546.4
92.5°	1.4	171.2	359.6	491.0	535.8
95°	0.0	165.9	355.6	485.7	530.4
97.5°	0.0	160.6	346.4	477.9	524.1
100°	0.0	158.1	339.7	466.1	510.9
102.5°	0.0	154.2	331.8	455.5	500.2
105°	0.0	152.8	324.0	446.2	489.9
107.5°	0.0	149.9	315.9	434.5	477.9
110°	0.0	147.4	309.5	423.9	466.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	145.0	302.7	413.6	454.1
115°	0.0	142.1	294.9	401.5	440.9
117.5°	0.0	138.2	287.1	389.8	429.2
120°	0.0	132.9	279.3	379.1	416.0
122.5°	0.0	127.5	271.1	365.9	401.5
125°	0.0	122.6	261.8	354.2	388.3
127.5°	0.0	114.4	251.5	341.1	372.7
130°	0.0	106.6	238.4	327.9	358.1
132.5°	1.4	98.8	225.3	313.4	343.6
135°	0.0	91.0	210.7	298.8	326.5
137.5°	0.0	84.2	194.7	283.2	309.5
140°	0.0	76.4	179.1	264.7	292.4
142.5°	0.0	67.1	163.4	244.8	273.9
145°	0.0	59.3	147.4	223.8	255.5
147.5°	1.4	52.6	132.9	201.4	235.6
150°	1.4	47.3	118.7	179.1	213.2
152.5°	1.4	42.3	104.1	158.1	190.8
155°	1.4	37.0	91.0	136.8	169.8
157.5°	1.4	31.6	76.4	115.8	147.4
160°	1.4	27.7	63.2	97.3	126.5
162.5°	1.4	23.8	51.5	76.4	104.1
165°	1.4	19.9	40.9	56.5	80.3
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)