

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: P284749

Luminaire Tested: **4SNLED-LD5-57HL-SLW-UNV-L950-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: P284749
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-L950-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: 5224.0 lumens
Efficiency: N/A
Efficacy: 108.8 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

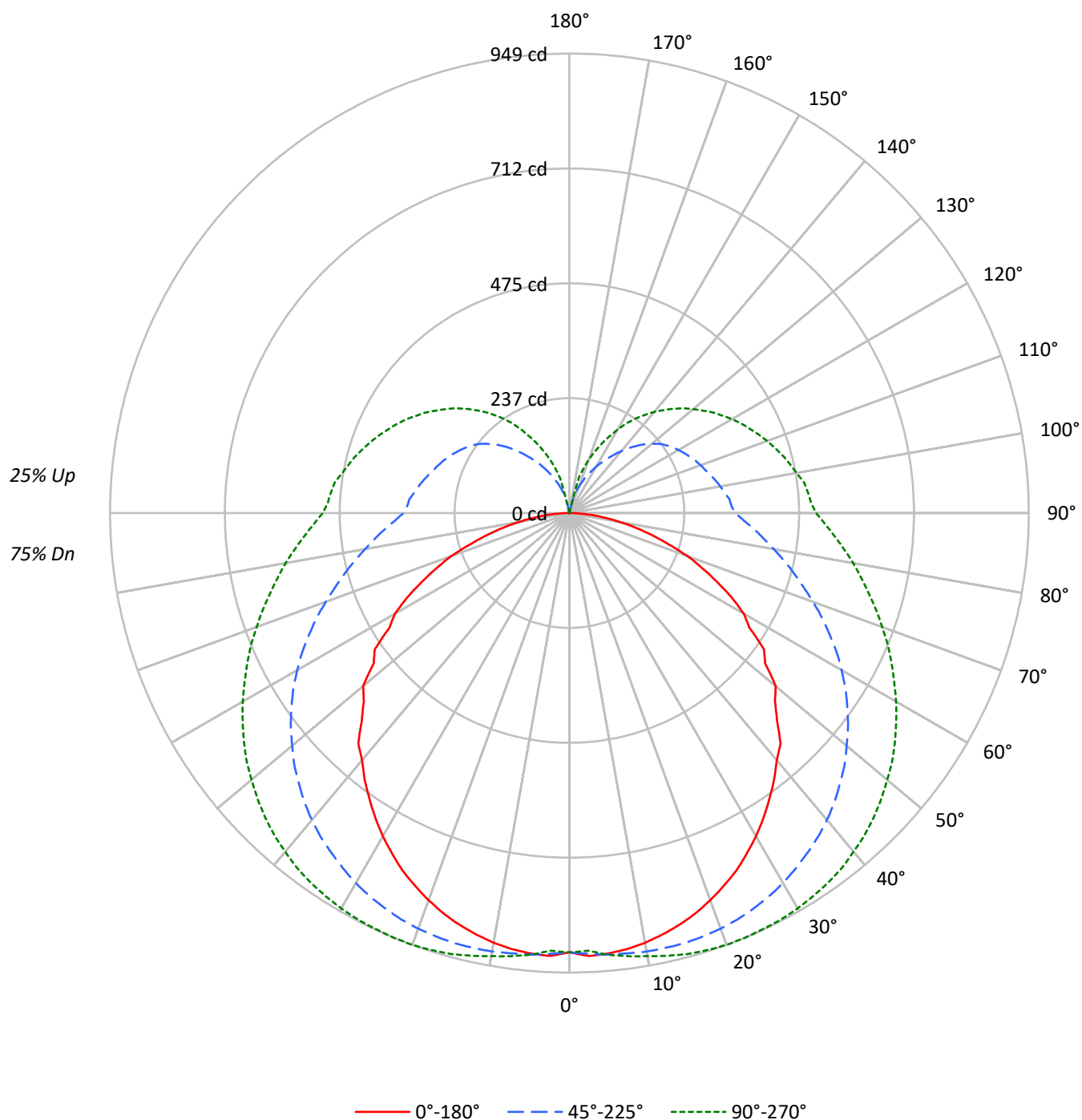
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	7332	7332	7332
5°	7388	7245	7191
10°	7353	7182	7151
15°	7302	7143	7167
20°	7233	7110	7180
25°	7164	7084	7191
30°	7065	7062	7230
35°	6956	7038	7279
40°	6851	7033	7327
45°	6721	7016	7385
50°	6741	7000	7444
55°	6621	7000	7532
60°	6380	7005	7634
65°	6025	7013	7777
70°	5636	7066	7995
75°	4946	7229	8319
80°	4178	7577	8854
85°	3102	8282	9637



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.2	1.7
10°-20°	258.4	4.9
20°-30°	410.7	7.9
30°-40°	527.1	10.1
40°-50°	595.3	11.4
50°-60°	607.4	11.6
60°-70°	562.7	10.8
70°-80°	476.4	9.1
80°-90°	380.3	7.3
90°-100°	322.9	6.2
100°-110°	287.7	5.5
110°-120°	245.0	4.7
120°-130°	194.6	3.7
130°-140°	138.1	2.6
140°-150°	82.4	1.6
150°-160°	38.4	0.7
160°-170°	9.1	0.2
170°-180°	0.0	0.0
0°-30°	756.4	14.5
0°-40°	1283.5	24.6
0°-60°	2486.2	47.6
0°-90°	3905.6	74.8
90°-120°	855.7	16.4
90°-150°	1270.8	24.3
90°-180°	1318.0	25.2
0°-180°	5224.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	907	907	907	907	907	
5°	913	906	916	916	916	87
15°	880	887	920	936	943	248
25°	815	842	901	933	948	375
35°	720	774	857	910	932	451
45°	606	689	790	859	889	471
55°	491	573	701	787	821	431
65°	336	448	593	695	734	334
75°	177	313	480	598	640	188
85°	45	201	383	507	550	50
90°	2	165	342	466	510	4
95°	0	155	332	453	495	0
105°	0	142	302	416	457	0
115°	0	132	275	374	411	0
125°	0	114	244	330	362	0
135°	0	85	196	279	304	0
145°	0	55	138	209	238	1
155°	1	34	85	128	158	1
165°	1	19	38	53	75	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°	907.3	907.3	907.3	907.3	907.3
2.5°	915.6	906.0	911.0	909.6	904.7
5°	913.3	906.0	915.6	915.6	915.6
7.5°	908.3	903.3	916.9	921.9	923.2
10°	901.0	901.0	919.6	926.9	929.2
12.5°	891.1	894.7	919.6	930.5	936.5
15°	880.1	887.4	919.6	936.5	942.8
17.5°	866.6	878.8	916.9	937.8	946.4
20°	850.7	869.2	913.3	937.8	949.0
22.5°	833.4	857.0	908.3	935.5	949.0
25°	815.2	842.1	901.0	932.8	947.7
27.5°	793.0	827.5	892.4	929.2	946.4
30°	770.8	810.3	882.5	924.2	942.8
32.5°	746.3	791.7	870.2	916.9	937.8
35°	720.5	773.5	857.0	909.6	931.8
37.5°	694.6	751.3	843.4	899.7	924.2
40°	666.5	729.1	827.5	887.4	913.3
42.5°	645.6	705.9	810.3	875.2	902.3
45°	606.5	688.7	790.4	859.3	888.8
47.5°	575.7	655.6	770.8	843.4	873.9
50°	556.2	628.4	747.6	824.8	857.0
52.5°	509.5	610.2	725.5	806.6	840.7
55°	490.9	573.4	700.9	786.7	821.2
57.5°	440.6	547.6	676.4	764.9	800.3
60°	416.1	511.8	649.3	742.7	779.4
62.5°	378.0	481.3	622.4	718.2	756.3
65°	336.2	448.2	592.9	694.6	734.1
67.5°	297.1	415.1	564.8	670.1	711.9
70°	259.0	380.6	535.3	645.6	687.4
72.5°	214.7	346.2	506.8	622.4	664.2
75°	176.9	313.0	480.0	597.9	639.7
77.5°	139.8	281.2	454.2	575.7	617.5
80°	105.7	250.4	428.3	552.5	595.3
82.5°	73.5	224.6	405.1	530.3	572.1
85°	45.4	201.4	382.9	506.8	549.9
87.5°	20.9	180.5	360.7	485.0	529.0
90°	2.3	164.6	342.5	466.4	509.5
92.5°	1.3	159.7	335.2	457.8	499.5
95°	0.0	154.7	331.6	452.8	494.6
97.5°	0.0	149.7	323.0	445.5	488.6
100°	0.0	147.4	316.7	434.6	476.3
102.5°	0.0	143.8	309.4	424.7	466.4
105°	0.0	142.4	302.1	416.1	456.8
107.5°	0.0	139.8	294.5	405.1	445.5
110°	0.0	137.5	288.5	395.2	434.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	135.2	282.2	385.6	423.3
115°	0.0	132.5	274.9	374.3	411.1
117.5°	0.0	128.9	267.7	363.4	400.2
120°	0.0	123.9	260.4	353.5	387.9
122.5°	0.0	118.9	252.7	341.2	374.3
125°	0.0	114.3	244.1	330.3	362.1
127.5°	0.0	106.7	234.5	318.0	347.5
130°	0.0	99.4	222.3	305.7	333.9
132.5°	1.3	92.1	210.0	292.2	320.3
135°	0.0	84.8	196.4	278.6	304.4
137.5°	0.0	78.5	181.5	264.0	288.5
140°	0.0	71.2	167.0	246.8	272.6
142.5°	0.0	62.6	152.4	228.2	255.4
145°	0.0	55.3	137.5	208.7	238.2
147.5°	1.3	49.0	123.9	187.8	219.6
150°	1.3	44.1	110.6	167.0	198.8
152.5°	1.3	39.4	97.1	147.4	177.9
155°	1.3	34.5	84.8	127.5	158.3
157.5°	1.3	29.5	71.2	108.0	137.5
160°	1.3	25.8	59.0	90.8	117.9
162.5°	1.3	22.2	48.0	71.2	97.1
165°	1.3	18.6	38.1	52.7	74.9
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)