

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: P284671

Luminaire Tested: **4SNLED-LD5-57HL-SLW-UNV-L935-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: P284671
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-L935-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: 4787.0 lumens
Efficiency: N/A
Efficacy: 99.7 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

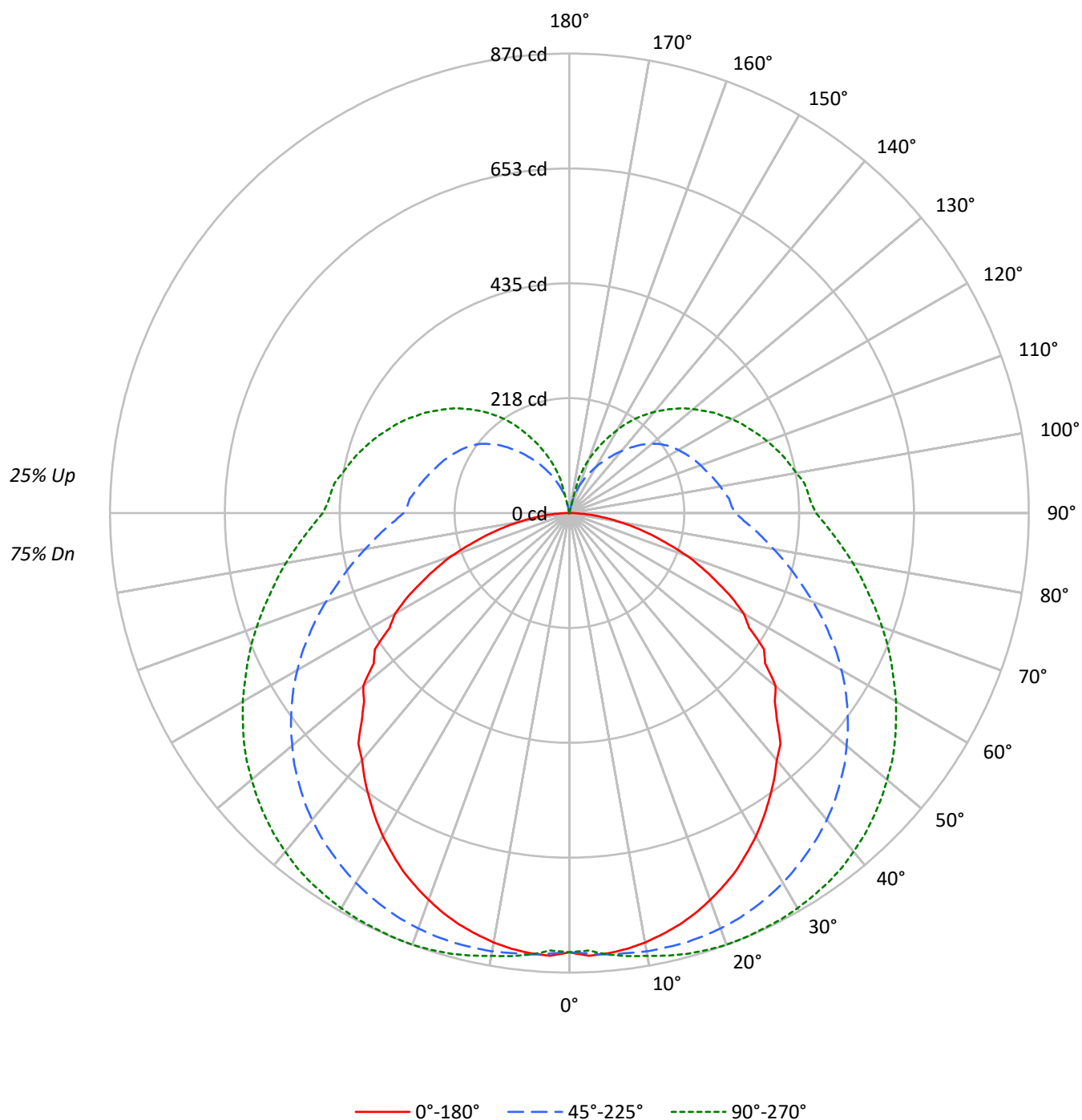
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6719	6719	6719
5°	6770	6639	6589
10°	6737	6580	6553
15°	6691	6545	6567
20°	6628	6515	6580
25°	6565	6491	6590
30°	6475	6471	6625
35°	6373	6449	6671
40°	6278	6444	6714
45°	6159	6429	6767
50°	6178	6415	6821
55°	6068	6415	6902
60°	5846	6418	6995
65°	5521	6426	7126
70°	5166	6475	7327
75°	4533	6624	7622
80°	3827	6943	8113
85°	2842	7590	8831



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.9	1.7
10°-20°	236.8	4.9
20°-30°	376.4	7.9
30°-40°	483.0	10.1
40°-50°	545.5	11.4
50°-60°	556.6	11.6
60°-70°	515.7	10.8
70°-80°	436.6	9.1
80°-90°	348.5	7.3
90°-100°	295.9	6.2
100°-110°	263.6	5.5
110°-120°	224.5	4.7
120°-130°	178.3	3.7
130°-140°	126.5	2.6
140°-150°	75.5	1.6
150°-160°	35.2	0.7
160°-170°	8.4	0.2
170°-180°	0.0	0.0
0°-30°	693.1	14.5
0°-40°	1176.1	24.6
0°-60°	2278.2	47.6
0°-90°	3578.9	74.8
90°-120°	784.1	16.4
90°-150°	1164.5	24.3
90°-180°	1208.0	25.2
0°-180°	4787.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	831	831	831	831	831	
5°	837	830	839	839	839	79
15°	806	813	843	858	864	228
25°	747	772	826	855	868	344
35°	660	709	785	834	854	413
45°	556	631	724	787	814	432
55°	450	525	642	721	752	395
65°	308	411	543	636	673	306
75°	162	287	440	548	586	172
85°	42	185	351	464	504	45
90°	2	151	314	427	467	3
95°	0	142	304	415	453	0
105°	0	130	277	381	419	0
115°	0	121	252	343	377	0
125°	0	105	224	303	332	0
135°	0	78	180	255	279	0
145°	0	51	126	191	218	0
155°	1	32	78	117	145	1
165°	1	17	35	48	69	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°	831.4	831.4	831.4	831.4	831.4
2.5°	839.0	830.2	834.8	833.5	829.0
5°	836.9	830.2	839.0	839.0	839.0
7.5°	832.3	827.8	840.2	844.8	846.0
10°	825.6	825.6	842.6	849.3	851.4
12.5°	816.5	819.9	842.6	852.7	858.1
15°	806.5	813.2	842.6	858.1	863.9
17.5°	794.1	805.3	840.2	859.3	867.2
20°	779.5	796.5	836.9	859.3	869.7
22.5°	763.7	785.3	832.3	857.2	869.7
25°	747.0	771.6	825.6	854.8	868.4
27.5°	726.7	758.3	817.8	851.4	867.2
30°	706.4	742.5	808.6	846.9	863.9
32.5°	683.9	725.5	797.4	840.2	859.3
35°	660.2	708.8	785.3	833.5	853.9
37.5°	636.5	688.4	772.8	824.4	846.9
40°	610.7	668.1	758.3	813.2	836.9
42.5°	591.6	646.9	742.5	802.0	826.9
45°	555.8	631.1	724.3	787.4	814.4
47.5°	527.6	600.7	706.4	772.8	800.8
50°	509.7	575.8	685.1	755.8	785.3
52.5°	466.9	559.1	664.8	739.1	770.4
55°	449.9	525.4	642.3	720.9	752.5
57.5°	403.7	501.8	619.8	700.9	733.4
60°	381.3	469.0	594.9	680.5	714.2
62.5°	346.3	441.1	570.4	658.1	693.0
65°	308.1	410.7	543.3	636.5	672.7
67.5°	272.3	380.3	517.5	614.1	652.3
70°	237.4	348.8	490.5	591.6	629.9
72.5°	196.7	317.2	464.4	570.4	608.6
75°	162.1	286.9	439.8	547.9	586.1
77.5°	128.1	257.7	416.2	527.6	565.8
80°	96.8	229.5	392.5	506.3	545.5
82.5°	67.4	205.8	371.2	486.0	524.2
85°	41.6	184.6	350.9	464.4	503.9
87.5°	19.1	165.4	330.6	444.4	484.8
90°	2.1	150.9	313.9	427.4	466.9
92.5°	1.2	146.3	307.2	419.5	457.7
95°	0.0	141.8	303.8	414.9	453.2
97.5°	0.0	137.2	296.0	408.3	447.7
100°	0.0	135.1	290.2	398.3	436.5
102.5°	0.0	131.7	283.5	389.1	427.4
105°	0.0	130.5	276.8	381.3	418.6
107.5°	0.0	128.1	269.9	371.2	408.3
110°	0.0	126.0	264.4	362.1	398.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	123.8	258.6	353.3	387.9
115°	0.0	121.4	251.9	343.0	376.7
117.5°	0.0	118.1	245.3	333.0	366.7
120°	0.0	113.5	238.6	323.9	355.5
122.5°	0.0	109.0	231.6	312.7	343.0
125°	0.0	104.7	223.7	302.6	331.8
127.5°	0.0	97.7	214.9	291.4	318.4
130°	0.0	91.1	203.7	280.2	306.0
132.5°	1.2	84.4	192.4	267.7	293.5
135°	0.0	77.7	180.0	255.3	279.0
137.5°	0.0	71.9	166.3	241.9	264.4
140°	0.0	65.3	153.0	226.1	249.8
142.5°	0.0	57.4	139.6	209.1	234.0
145°	0.0	50.7	126.0	191.2	218.2
147.5°	1.2	44.9	113.5	172.1	201.3
150°	1.2	40.4	101.4	153.0	182.1
152.5°	1.2	36.1	88.9	135.1	163.0
155°	1.2	31.6	77.7	116.9	145.1
157.5°	1.2	27.0	65.3	99.0	126.0
160°	1.2	23.7	54.0	83.2	108.1
162.5°	1.2	20.3	44.0	65.3	88.9
165°	1.2	17.0	34.9	48.3	68.6
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)