

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: P284548

Luminaire Tested: **4SNLED-LD5-54SL-SLW-UNV-L840-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: P284548
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-LD5-54SL-SLW-UNV-L840-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: 5517.0 lumens
Efficiency: N/A
Efficacy: 100.3 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

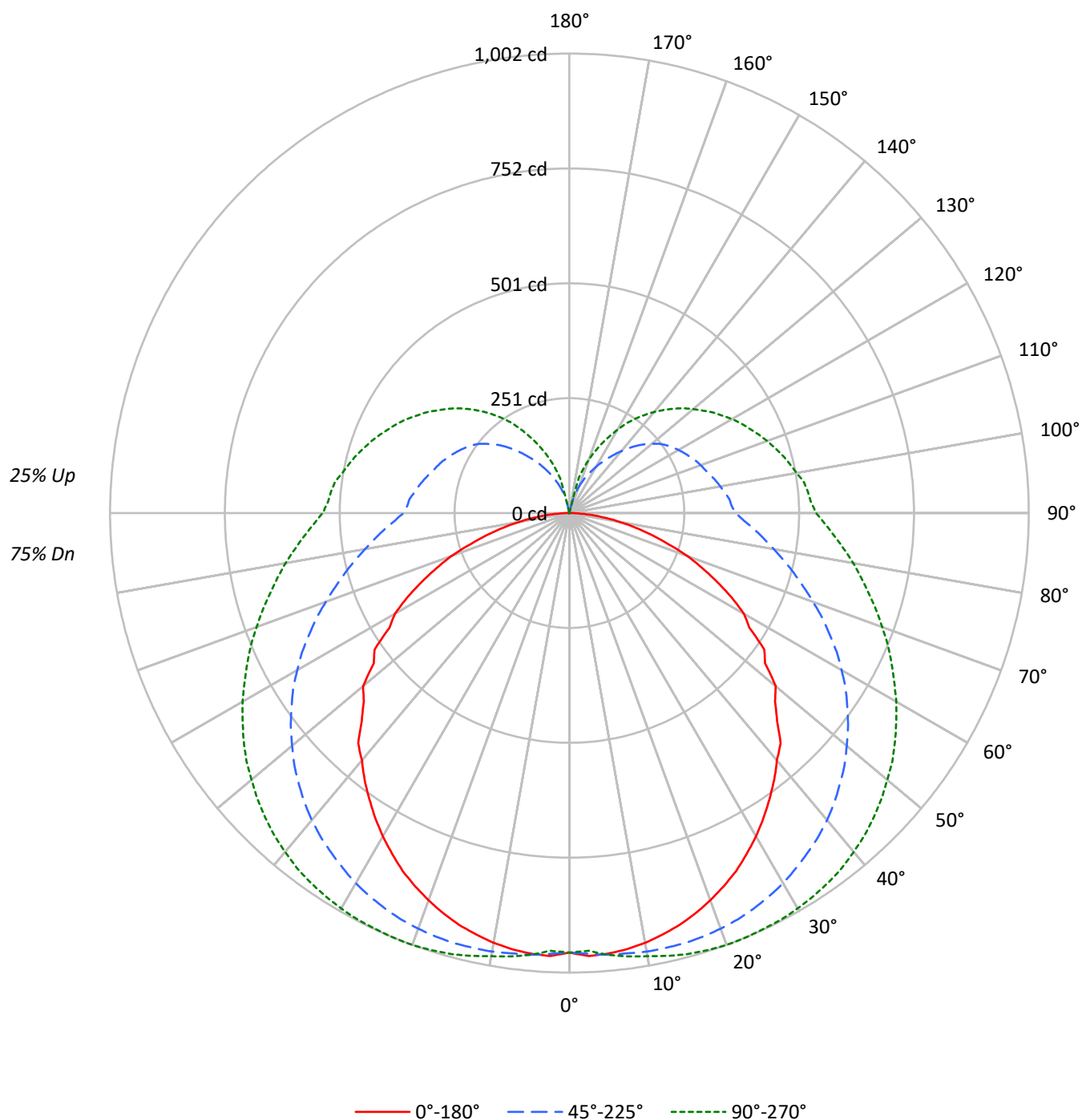
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					10
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°	7743	7743	7743
5°	7803	7651	7594
10°	7766	7584	7552
15°	7712	7543	7568
20°	7639	7509	7583
25°	7566	7482	7595
30°	7462	7458	7635
35°	7346	7432	7688
40°	7236	7427	7737
45°	7098	7409	7799
50°	7120	7393	7861
55°	6993	7394	7954
60°	6737	7398	8063
65°	6364	7407	8212
70°	5953	7462	8443
75°	5223	7634	8785
80°	4412	8001	9351
85°	3272	8747	10177



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.1	1.7
10°-20°	272.9	4.9
20°-30°	433.8	7.9
30°-40°	556.7	10.1
40°-50°	628.7	11.4
50°-60°	641.5	11.6
60°-70°	594.3	10.8
70°-80°	503.1	9.1
80°-90°	401.6	7.3
90°-100°	341.0	6.2
100°-110°	303.8	5.5
110°-120°	258.8	4.7
120°-130°	205.5	3.7
130°-140°	145.8	2.6
140°-150°	87.1	1.6
150°-160°	40.6	0.7
160°-170°	9.6	0.2
170°-180°	0.0	0.0
0°-30°	798.8	14.5
0°-40°	1355.5	24.6
0°-60°	2625.6	47.6
0°-90°	4124.7	74.8
90°-120°	903.7	16.4
90°-150°	1342.1	24.3
90°-180°	1392.0	25.2
0°-180°	5517.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	958	958	958	958	958	
5°	964	957	967	967	967	92
15°	930	937	971	989	996	262
25°	861	889	952	985	1001	396
35°	761	817	905	961	984	476
45°	640	727	835	908	939	497
55°	518	606	740	831	867	455
65°	355	473	626	734	775	352
75°	187	331	507	632	676	199
85°	48	213	404	535	581	52
90°	2	174	362	493	538	4
95°	0	163	350	478	522	0
105°	0	150	319	439	482	0
115°	0	140	290	395	434	0
125°	0	121	258	349	382	0
135°	0	90	208	294	322	0
145°	0	58	145	220	252	1
155°	1	36	90	135	167	1
165°	1	20	40	56	79	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°	958.2	958.2	958.2	958.2	958.2
2.5°	966.9	956.8	962.0	960.6	955.4
5°	964.5	956.8	966.9	966.9	966.9
7.5°	959.2	954.0	968.3	973.6	975.0
10°	951.6	951.6	971.1	978.8	981.3
12.5°	941.1	944.9	971.1	982.7	989.0
15°	929.5	937.2	971.1	989.0	995.6
17.5°	915.2	928.1	968.3	990.4	999.5
20°	898.4	918.0	964.5	990.4	1002.3
22.5°	880.2	905.0	959.2	987.9	1002.3
25°	860.9	889.3	951.6	985.1	1000.9
27.5°	837.5	873.9	942.5	981.3	999.5
30°	814.1	855.7	932.0	976.0	995.6
32.5°	788.2	836.1	919.0	968.3	990.4
35°	760.9	816.9	905.0	960.6	984.1
37.5°	733.6	793.4	890.7	950.2	976.0
40°	703.9	770.0	873.9	937.2	964.5
42.5°	681.8	745.5	855.7	924.3	953.0
45°	640.5	727.3	834.7	907.5	938.6
47.5°	608.0	692.3	814.1	890.7	922.9
50°	587.4	663.6	789.6	871.1	905.0
52.5°	538.0	644.4	766.1	851.8	887.9
55°	518.5	605.6	740.3	830.9	867.2
57.5°	465.3	578.3	714.4	807.8	845.2
60°	439.4	540.5	685.7	784.3	823.2
62.5°	399.2	508.3	657.3	758.4	798.7
65°	355.1	473.3	626.2	733.6	775.2
67.5°	313.8	438.3	596.5	707.7	751.8
70°	273.6	402.0	565.3	681.8	725.9
72.5°	226.7	365.6	535.2	657.3	701.4
75°	186.8	330.6	506.9	631.5	675.5
77.5°	147.6	297.0	479.6	608.0	652.1
80°	111.6	264.5	452.3	583.5	628.7
82.5°	77.7	237.2	427.8	560.1	604.2
85°	47.9	212.7	404.4	535.2	580.7
87.5°	22.0	190.7	381.0	512.2	558.7
90°	2.4	173.9	361.7	492.6	538.0
92.5°	1.4	168.6	354.0	483.5	527.6
95°	0.0	163.4	350.2	478.2	522.3
97.5°	0.0	158.1	341.1	470.5	516.0
100°	0.0	155.7	334.4	459.0	503.1
102.5°	0.0	151.8	326.7	448.5	492.6
105°	0.0	150.4	319.0	439.4	482.4
107.5°	0.0	147.6	311.0	427.8	470.5
110°	0.0	145.2	304.7	417.4	459.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	142.7	298.1	407.2	447.1
115°	0.0	139.9	290.4	395.3	434.1
117.5°	0.0	136.1	282.7	383.8	422.6
120°	0.0	130.8	275.0	373.3	409.7
122.5°	0.0	125.6	266.9	360.3	395.3
125°	0.0	120.7	257.8	348.8	382.4
127.5°	0.0	112.6	247.7	335.8	367.0
130°	0.0	105.0	234.7	322.9	352.6
132.5°	1.4	97.3	221.8	308.6	338.3
135°	0.0	89.6	207.5	294.2	321.5
137.5°	0.0	82.9	191.7	278.8	304.7
140°	0.0	75.2	176.3	260.6	287.9
142.5°	0.0	66.1	160.9	241.0	269.7
145°	0.0	58.4	145.2	220.4	251.5
147.5°	1.4	51.8	130.8	198.4	231.9
150°	1.4	46.5	116.8	176.3	209.9
152.5°	1.4	41.6	102.5	155.7	187.9
155°	1.4	36.4	89.6	134.7	167.2
157.5°	1.4	31.1	75.2	114.0	145.2
160°	1.4	27.3	62.3	95.9	124.5
162.5°	1.4	23.4	50.7	75.2	102.5
165°	1.4	19.6	40.2	55.6	79.1
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)