

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: P284626

Luminaire Tested: **4SNLED-LD5-54SL-SLW-UNV-L930-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: P284626
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-L930-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: 4293.0 lumens
Efficiency: N/A
Efficacy: 78.1 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

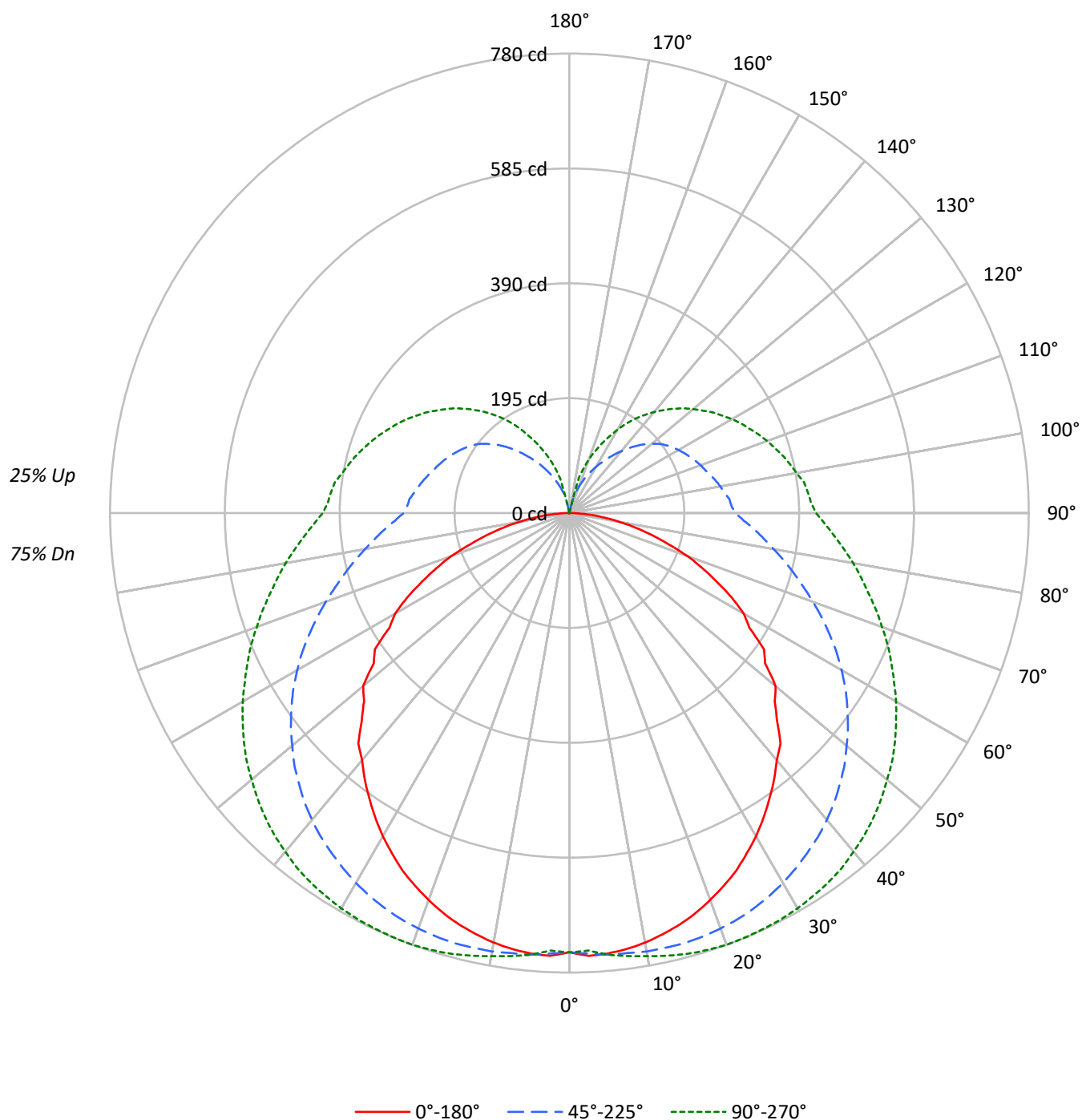
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6025	6025	6025
5°	6071	5954	5909
10°	6042	5902	5877
15°	6001	5870	5889
20°	5944	5843	5901
25°	5887	5821	5910
30°	5807	5804	5941
35°	5716	5783	5982
40°	5630	5779	6021
45°	5523	5765	6069
50°	5540	5753	6117
55°	5441	5753	6189
60°	5242	5757	6273
65°	4951	5764	6390
70°	4633	5807	6571
75°	4066	5940	6836
80°	3431	6227	7276
85°	2548	6807	7920



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.7	1.7
10°-20°	212.4	4.9
20°-30°	337.5	7.9
30°-40°	433.2	10.1
40°-50°	489.2	11.4
50°-60°	499.2	11.6
60°-70°	462.4	10.8
70°-80°	391.5	9.1
80°-90°	312.5	7.3
90°-100°	265.4	6.2
100°-110°	236.4	5.5
110°-120°	201.4	4.7
120°-130°	159.9	3.7
130°-140°	113.5	2.6
140°-150°	67.7	1.6
150°-160°	31.6	0.7
160°-170°	7.5	0.2
170°-180°	0.0	0.0
0°-30°	621.6	14.5
0°-40°	1054.8	24.6
0°-60°	2043.1	47.6
0°-90°	3209.6	74.8
90°-120°	703.2	16.4
90°-150°	1044.3	24.3
90°-180°	1083.0	25.2
0°-180°	4293.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	746	746	746	746	746	
5°	750	744	752	752	752	71
15°	723	729	756	770	775	204
25°	670	692	740	767	779	308
35°	592	636	704	748	766	371
45°	498	566	650	706	730	387
55°	403	471	576	646	675	354
65°	276	368	487	571	603	274
75°	145	257	394	491	526	155
85°	37	166	315	416	452	41
90°	2	135	282	383	419	3
95°	0	127	272	372	406	0
105°	0	117	248	342	375	0
115°	0	109	226	308	338	0
125°	0	94	201	271	298	0
135°	0	70	161	229	250	0
145°	0	46	113	172	196	0
155°	1	28	70	105	130	1
165°	1	15	31	43	62	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°	745.6	745.6	745.6	745.6	745.6
2.5°	752.4	744.5	748.6	747.5	743.4
5°	750.5	744.5	752.4	752.4	752.4
7.5°	746.4	742.3	753.5	757.6	758.7
10°	740.4	740.4	755.7	761.7	763.6
12.5°	732.3	735.3	755.7	764.7	769.6
15°	723.3	729.3	755.7	769.6	774.7
17.5°	712.1	722.2	753.5	770.7	777.7
20°	699.1	714.3	750.5	770.7	779.9
22.5°	684.9	704.2	746.4	768.8	779.9
25°	669.9	692.0	740.4	766.6	778.8
27.5°	651.7	680.0	733.4	763.6	777.7
30°	633.5	665.9	725.2	759.5	774.7
32.5°	613.3	650.6	715.1	753.5	770.7
35°	592.1	635.6	704.2	747.5	765.8
37.5°	570.8	617.4	693.1	739.4	759.5
40°	547.7	599.2	680.0	729.3	750.5
42.5°	530.6	580.1	665.9	719.2	741.5
45°	498.4	565.9	649.5	706.1	730.4
47.5°	473.1	538.7	633.5	693.1	718.1
50°	457.1	516.4	614.4	677.8	704.2
52.5°	418.7	501.4	596.2	662.9	690.9
55°	403.4	471.2	576.0	646.5	674.8
57.5°	362.1	450.0	555.9	628.6	657.7
60°	341.9	420.6	533.6	610.3	640.5
62.5°	310.6	395.5	511.5	590.2	621.5
65°	276.3	368.3	487.3	570.8	603.2
67.5°	244.2	341.1	464.1	550.7	585.0
70°	212.9	312.8	439.9	530.6	564.9
72.5°	176.4	284.5	416.5	511.5	545.8
75°	145.4	257.2	394.4	491.4	525.7
77.5°	114.9	231.1	373.2	473.1	507.4
80°	86.8	205.8	352.0	454.1	489.2
82.5°	60.4	184.6	332.9	435.8	470.1
85°	37.3	165.5	314.7	416.5	451.9
87.5°	17.1	148.4	296.4	398.5	434.7
90°	1.9	135.3	281.5	383.3	418.7
92.5°	1.1	131.2	275.5	376.2	410.5
95°	0.0	127.1	272.5	372.1	406.4
97.5°	0.0	123.0	265.4	366.1	401.5
100°	0.0	121.1	260.2	357.2	391.5
102.5°	0.0	118.1	254.3	349.0	383.3
105°	0.0	117.1	248.3	341.9	375.4
107.5°	0.0	114.9	242.0	332.9	366.1
110°	0.0	113.0	237.1	324.8	357.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	111.1	231.9	316.9	347.9
115°	0.0	108.9	225.9	307.6	337.8
117.5°	0.0	105.9	220.0	298.6	328.8
120°	0.0	101.8	214.0	290.5	318.8
122.5°	0.0	97.7	207.7	280.4	307.6
125°	0.0	93.9	200.6	271.4	297.5
127.5°	0.0	87.7	192.7	261.3	285.6
130°	0.0	81.7	182.7	251.3	274.4
132.5°	1.1	75.7	172.6	240.1	263.2
135°	0.0	69.7	161.4	228.9	250.2
137.5°	0.0	64.5	149.2	217.0	237.1
140°	0.0	58.5	137.2	202.8	224.0
142.5°	0.0	51.4	125.2	187.6	209.9
145°	0.0	45.5	113.0	171.5	195.7
147.5°	1.1	40.3	101.8	154.3	180.5
150°	1.1	36.2	90.9	137.2	163.3
152.5°	1.1	32.4	79.8	121.1	146.2
155°	1.1	28.3	69.7	104.8	130.1
157.5°	1.1	24.2	58.5	88.7	113.0
160°	1.1	21.2	48.5	74.6	96.9
162.5°	1.1	18.2	39.5	58.5	79.8
165°	1.1	15.2	31.3	43.3	61.5
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)