

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: P284743

Luminaire Tested: **4SNLED-LD5-54SL-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: P284743
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-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: 4972.0 lumens
Efficiency: N/A
Efficacy: 90.4 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

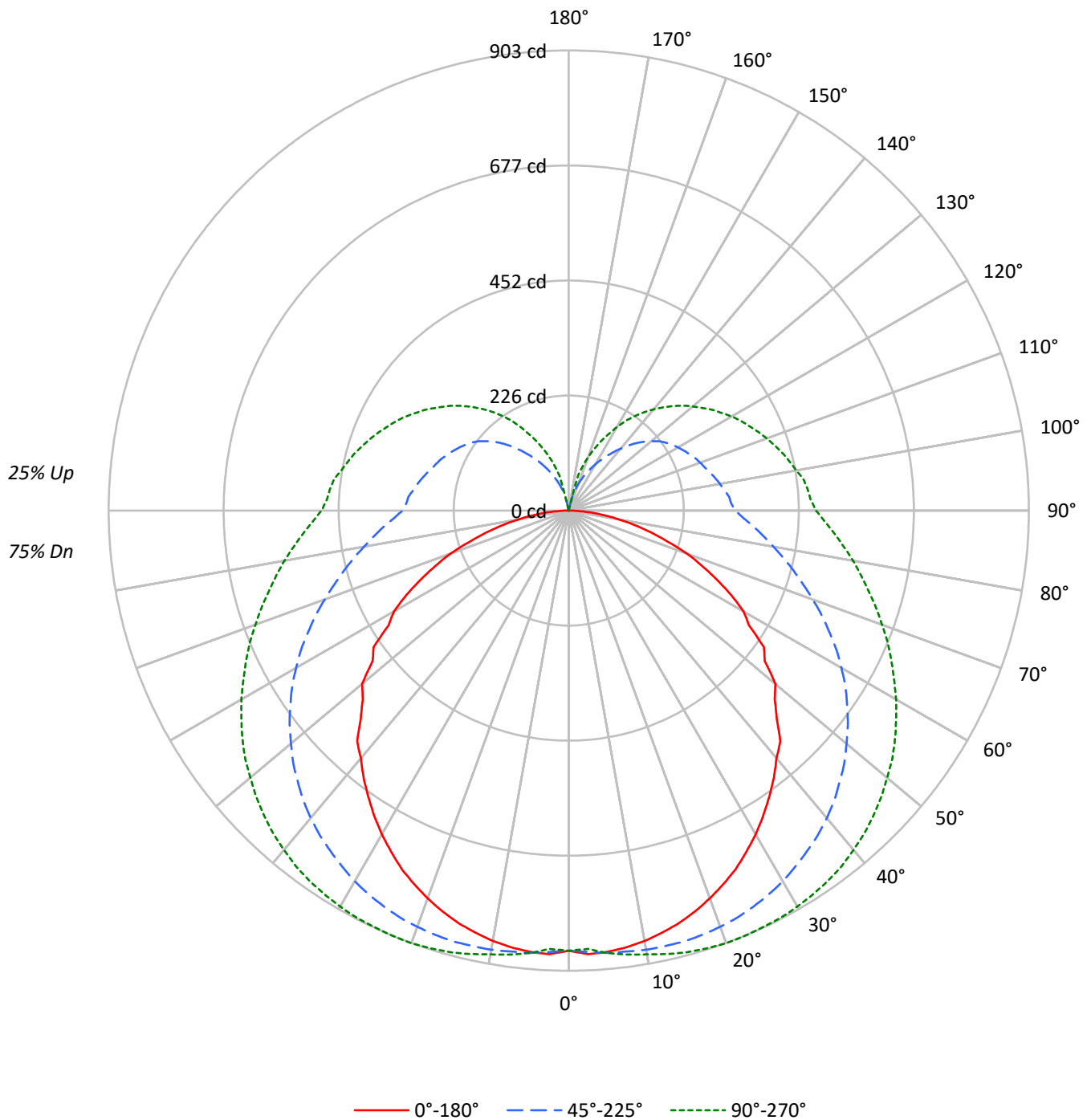
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6978	6978	6978
5°	7032	6895	6844
10°	6999	6835	6807
15°	6950	6798	6821
20°	6884	6767	6834
25°	6819	6743	6845
30°	6724	6721	6881
35°	6620	6698	6928
40°	6520	6694	6973
45°	6398	6677	7029
50°	6415	6663	7084
55°	6301	6663	7169
60°	6072	6667	7265
65°	5735	6675	7402
70°	5364	6725	7609
75°	4709	6880	7917
80°	3977	7212	8427
85°	2951	7884	9173



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.0	1.7
10°-20°	246.0	4.9
20°-30°	390.9	7.9
30°-40°	501.7	10.1
40°-50°	566.6	11.4
50°-60°	578.1	11.6
60°-70°	535.6	10.8
70°-80°	453.4	9.1
80°-90°	362.0	7.3
90°-100°	307.4	6.2
100°-110°	273.8	5.5
110°-120°	233.2	4.7
120°-130°	185.2	3.7
130°-140°	131.4	2.6
140°-150°	78.5	1.6
150°-160°	36.6	0.7
160°-170°	8.7	0.2
170°-180°	0.0	0.0
0°-30°	719.9	14.5
0°-40°	1221.6	24.6
0°-60°	2366.2	47.6
0°-90°	3717.2	74.8
90°-120°	814.4	16.4
90°-150°	1209.5	24.3
90°-180°	1255.0	25.2
0°-180°	4972.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	864	864	864	864	864	
5°	869	862	871	871	871	83
15°	838	845	875	891	897	236
25°	776	801	858	888	902	357
35°	686	736	816	866	887	429
45°	577	656	752	818	846	448
55°	467	546	667	749	782	410
65°	320	427	564	661	699	318
75°	168	298	457	569	609	179
85°	43	192	364	482	523	47
90°	2	157	326	444	485	4
95°	0	147	316	431	471	0
105°	0	136	288	396	435	0
115°	0	126	262	356	391	0
125°	0	109	232	314	345	0
135°	0	81	187	265	290	0
145°	0	53	131	199	227	1
155°	1	33	81	121	151	1
165°	1	18	36	50	71	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°	863.5	863.5	863.5	863.5	863.5
2.5°	871.4	862.3	867.0	865.7	861.0
5°	869.2	862.3	871.4	871.4	871.4
7.5°	864.5	859.8	872.7	877.4	878.7
10°	857.6	857.6	875.2	882.1	884.4
12.5°	848.1	851.6	875.2	885.6	891.3
15°	837.7	844.6	875.2	891.3	897.3
17.5°	824.8	836.4	872.7	892.5	900.7
20°	809.6	827.3	869.2	892.5	903.3
22.5°	793.2	815.6	864.5	890.3	903.3
25°	775.9	801.4	857.6	887.8	902.0
27.5°	754.8	787.6	849.4	884.4	900.7
30°	733.6	771.2	839.9	879.6	897.3
32.5°	710.3	753.5	828.2	872.7	892.5
35°	685.7	736.2	815.6	865.7	886.9
37.5°	661.1	715.0	802.7	856.3	879.6
40°	634.3	693.9	787.6	844.6	869.2
42.5°	614.5	671.9	771.2	833.0	858.8
45°	577.3	655.5	752.2	817.8	845.9
47.5°	548.0	623.9	733.6	802.7	831.7
50°	529.3	598.1	711.6	785.0	815.6
52.5°	484.9	580.7	690.5	767.7	800.2
55°	467.2	545.7	667.1	748.8	781.6
57.5°	419.3	521.2	643.8	728.0	761.7
60°	396.0	487.1	617.9	706.9	741.8
62.5°	359.7	458.1	592.4	683.5	719.8
65°	320.0	426.6	564.3	661.1	698.7
67.5°	282.8	395.0	537.5	637.8	677.5
70°	246.5	362.3	509.5	614.5	654.2
72.5°	204.3	329.5	482.4	592.4	632.1
75°	168.4	297.9	456.8	569.1	608.8
77.5°	133.0	267.7	432.2	548.0	587.7
80°	100.6	238.3	407.7	525.9	566.6
82.5°	70.0	213.8	385.6	504.8	544.5
85°	43.2	191.7	364.5	482.4	523.4
87.5°	19.9	171.8	343.3	461.6	503.5
90°	2.2	156.7	326.0	443.9	484.9
92.5°	1.3	152.0	319.1	435.7	475.4
95°	0.0	147.2	315.6	431.0	470.7
97.5°	0.0	142.5	307.4	424.0	465.0
100°	0.0	140.3	301.4	413.6	453.4
102.5°	0.0	136.8	294.5	404.2	443.9
105°	0.0	135.6	287.5	396.0	434.8
107.5°	0.0	133.0	280.3	385.6	424.0
110°	0.0	130.8	274.6	376.1	413.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	128.6	268.6	367.0	402.9
115°	0.0	126.1	261.7	356.3	391.3
117.5°	0.0	122.6	254.7	345.9	380.9
120°	0.0	117.9	247.8	336.4	369.2
122.5°	0.0	113.2	240.6	324.7	356.3
125°	0.0	108.8	232.4	314.3	344.6
127.5°	0.0	101.5	223.2	302.7	330.7
130°	0.0	94.6	211.6	291.0	317.8
132.5°	1.3	87.6	199.9	278.1	304.9
135°	0.0	80.7	187.0	265.1	289.7
137.5°	0.0	74.7	172.8	251.3	274.6
140°	0.0	67.8	158.9	234.9	259.5
142.5°	0.0	59.6	145.0	217.2	243.1
145°	0.0	52.7	130.8	198.6	226.7
147.5°	1.3	46.7	117.9	178.8	209.0
150°	1.3	41.9	105.3	158.9	189.2
152.5°	1.3	37.5	92.4	140.3	169.3
155°	1.3	32.8	80.7	121.4	150.7
157.5°	1.3	28.1	67.8	102.8	130.8
160°	1.3	24.6	56.1	86.4	112.2
162.5°	1.3	21.1	45.7	67.8	92.4
165°	1.3	17.7	36.3	50.1	71.3
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)