

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: P284509

Luminaire Tested: **4SNLED-LD5-54SL-SLW-UNV-L835-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: P284509
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-L835-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: 5425.0 lumens
Efficiency: N/A
Efficacy: 98.6 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

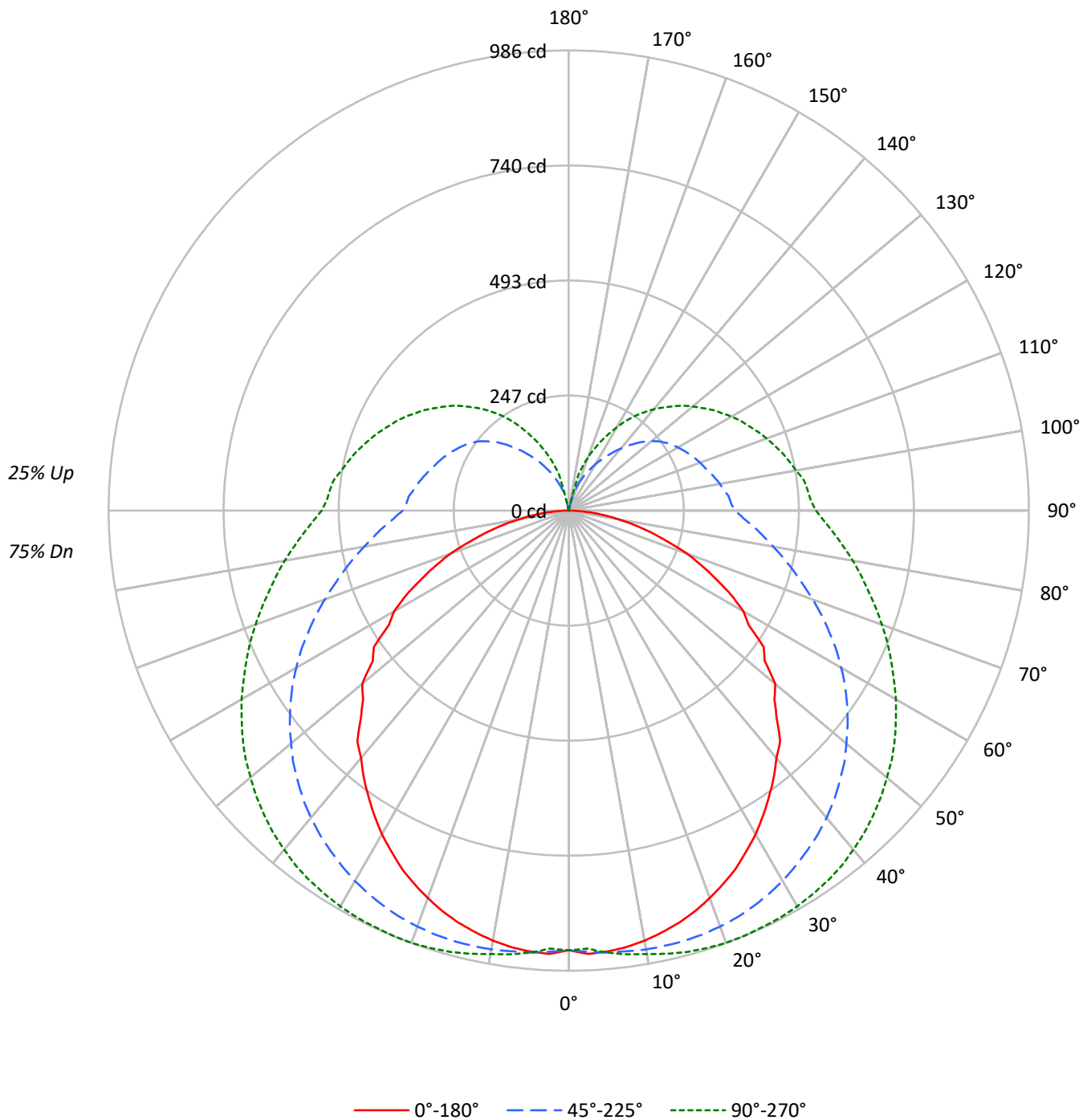
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	7614	7614	7614
5°	7672	7524	7468
10°	7636	7458	7426
15°	7583	7417	7442
20°	7511	7383	7457
25°	7440	7357	7468
30°	7337	7334	7508
35°	7223	7308	7560
40°	7114	7303	7608
45°	6981	7286	7669
50°	7001	7270	7730
55°	6876	7270	7822
60°	6625	7274	7927
65°	6258	7284	8075
70°	5853	7338	8303
75°	5137	7508	8639
80°	4337	7869	9195
85°	3218	8603	10007



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.5	1.7
10°-20°	268.4	4.9
20°-30°	426.5	7.9
30°-40°	547.4	10.1
40°-50°	618.2	11.4
50°-60°	630.8	11.6
60°-70°	584.4	10.8
70°-80°	494.8	9.1
80°-90°	394.9	7.3
90°-100°	335.4	6.2
100°-110°	298.8	5.5
110°-120°	254.5	4.7
120°-130°	202.1	3.7
130°-140°	143.4	2.6
140°-150°	85.6	1.6
150°-160°	39.9	0.7
160°-170°	9.5	0.2
170°-180°	0.0	0.0
0°-30°	785.5	14.5
0°-40°	1332.9	24.6
0°-60°	2581.9	47.6
0°-90°	4055.9	74.8
90°-120°	888.6	16.4
90°-150°	1319.7	24.3
90°-180°	1369.0	25.2
0°-180°	5425.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	942	942	942	942	942	
5°	948	941	951	951	951	90
15°	914	922	955	972	979	258
25°	847	874	936	969	984	390
35°	748	803	890	945	968	468
45°	630	715	821	892	923	489
55°	510	596	728	817	853	448
65°	349	465	616	721	762	347
75°	184	325	498	621	664	195
85°	47	209	398	526	571	51
90°	2	171	356	484	529	4
95°	0	161	344	470	514	0
105°	0	148	314	432	474	0
115°	0	138	286	389	427	0
125°	0	119	254	343	376	0
135°	0	88	204	289	316	0
145°	0	57	143	217	247	1
155°	1	36	88	132	164	1
165°	1	19	40	55	78	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°	942.2	942.2	942.2	942.2	942.2
2.5°	950.8	940.8	946.0	944.6	939.5
5°	948.4	940.8	950.8	950.8	950.8
7.5°	943.3	938.1	952.2	957.4	958.7
10°	935.7	935.7	954.9	962.5	964.9
12.5°	925.4	929.1	954.9	966.3	972.5
15°	914.0	921.6	954.9	972.5	979.0
17.5°	899.9	912.6	952.2	973.9	982.8
20°	883.4	902.7	948.4	973.9	985.6
22.5°	865.5	889.9	943.3	971.5	985.6
25°	846.6	874.5	935.7	968.7	984.2
27.5°	823.5	859.3	926.7	964.9	982.8
30°	800.5	841.4	916.4	959.8	979.0
32.5°	775.0	822.2	903.7	952.2	973.9
35°	748.2	803.2	889.9	944.6	967.7
37.5°	721.4	780.2	875.8	934.3	959.8
40°	692.1	757.1	859.3	921.6	948.4
42.5°	670.5	733.1	841.4	908.9	937.1
45°	629.9	715.2	820.8	892.3	923.0
47.5°	597.9	680.8	800.5	875.8	907.5
50°	577.6	652.6	776.4	856.6	889.9
52.5°	529.1	633.7	753.4	837.6	873.1
55°	509.8	595.5	727.9	817.0	852.8
57.5°	457.5	568.6	702.5	794.3	831.1
60°	432.1	531.5	674.2	771.3	809.4
62.5°	392.5	499.8	646.4	745.8	785.4
65°	349.2	465.4	615.8	721.4	762.3
67.5°	308.6	431.0	586.5	695.9	739.3
70°	269.0	395.3	555.9	670.5	713.8
72.5°	222.9	359.5	526.3	646.4	689.7
75°	183.7	325.1	498.5	620.9	664.3
77.5°	145.2	292.1	471.6	597.9	641.2
80°	109.7	260.1	444.8	573.8	618.2
82.5°	76.4	233.2	420.7	550.7	594.1
85°	47.1	209.2	397.7	526.3	571.0
87.5°	21.7	187.5	374.6	503.6	549.4
90°	2.4	171.0	355.7	484.4	529.1
92.5°	1.4	165.8	348.1	475.4	518.8
95°	0.0	160.6	344.3	470.3	513.6
97.5°	0.0	155.5	335.4	462.7	507.4
100°	0.0	153.1	328.9	451.3	494.7
102.5°	0.0	149.3	321.3	441.0	484.4
105°	0.0	147.9	313.7	432.1	474.4
107.5°	0.0	145.2	305.8	420.7	462.7
110°	0.0	142.8	299.6	410.4	451.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	140.4	293.1	400.4	439.6
115°	0.0	137.6	285.5	388.7	426.9
117.5°	0.0	133.8	278.0	377.4	415.6
120°	0.0	128.7	270.4	367.0	402.8
122.5°	0.0	123.5	262.5	354.3	388.7
125°	0.0	118.7	253.5	343.0	376.0
127.5°	0.0	110.8	243.6	330.2	360.9
130°	0.0	103.2	230.8	317.5	346.8
132.5°	1.4	95.6	218.1	303.4	332.6
135°	0.0	88.1	204.0	289.3	316.1
137.5°	0.0	81.5	188.5	274.2	299.6
140°	0.0	74.0	173.4	256.3	283.1
142.5°	0.0	65.0	158.2	237.0	265.2
145°	0.0	57.4	142.8	216.7	247.3
147.5°	1.4	50.9	128.7	195.0	228.1
150°	1.4	45.8	114.9	173.4	206.4
152.5°	1.4	40.9	100.8	153.1	184.7
155°	1.4	35.8	88.1	132.4	164.4
157.5°	1.4	30.6	74.0	112.1	142.8
160°	1.4	26.8	61.2	94.3	122.5
162.5°	1.4	23.0	49.9	74.0	100.8
165°	1.4	19.3	39.6	54.7	77.7
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)