

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: P218223

Luminaire Tested: **4SNLED-LD5-56SL-LN-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P218223
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35686)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-56SL-LN-UNV-L830-CD1-U
Description: LED STRIP LIGHT - SNLED SERIES 4FOOT

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5438.0 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.04 / 1.17
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.17')
CIE Type: Direct

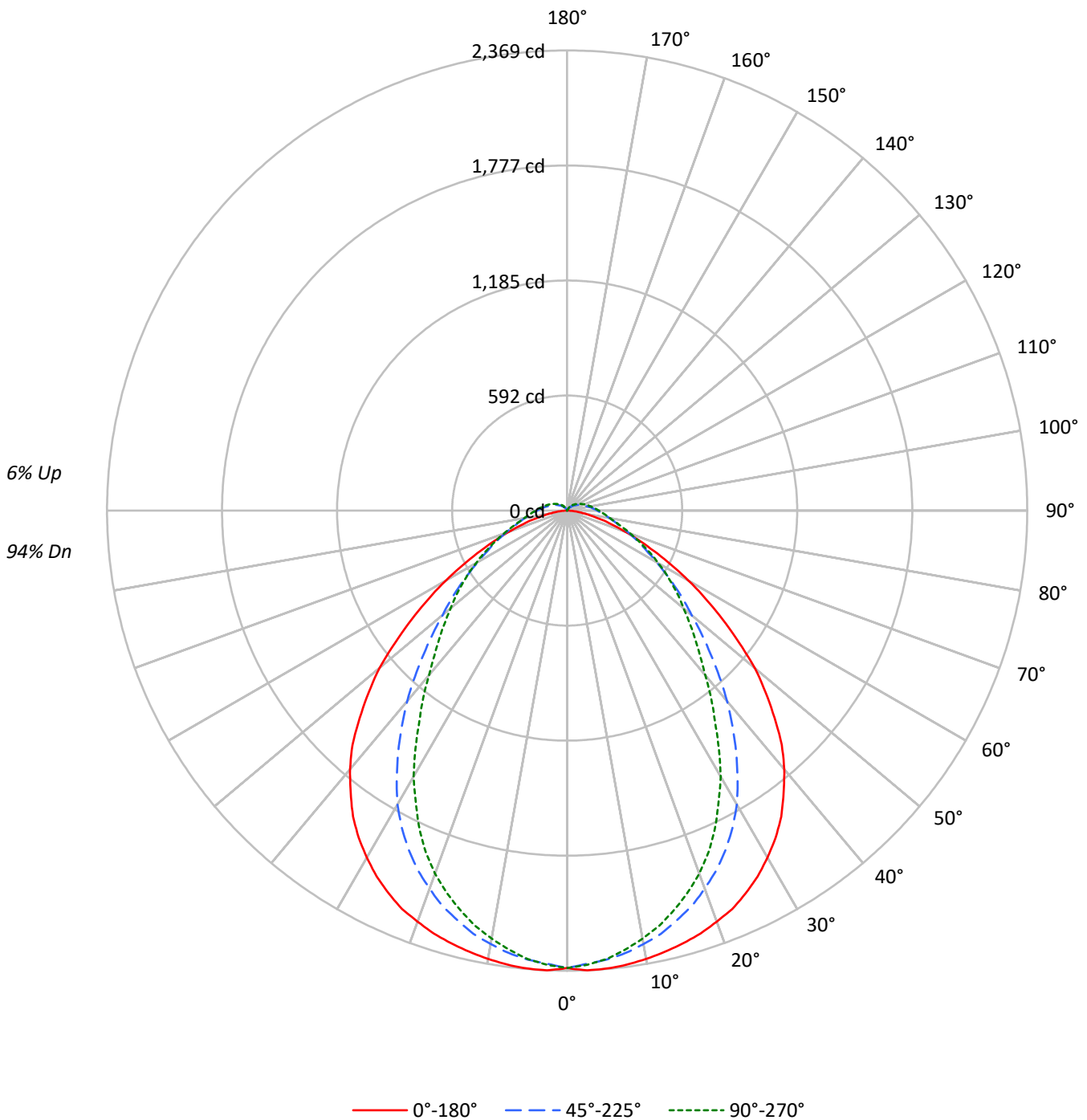
Input Watts (W): 47.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94				
1	108	103	99	95	105	100	97	93	95	92	89	90	88	86	86	84	82	80				
2	99	91	85	79	96	89	83	78	84	79	75	80	76	73	77	73	70	68				
3	91	81	73	67	88	79	72	66	75	69	64	72	67	63	69	64	61	59				
4	84	73	64	58	81	71	63	57	68	61	56	65	59	55	62	57	53	51				
5	77	65	57	51	75	64	56	50	61	54	49	59	53	48	56	51	47	45				
6	72	59	51	45	70	58	50	44	56	49	44	54	47	43	52	46	42	40				
7	67	54	46	40	65	53	45	40	51	44	39	49	43	38	47	42	38	36				
8	63	50	42	36	61	49	41	36	47	40	35	45	39	35	44	38	34	32				
9	59	46	38	33	57	45	38	33	43	37	32	42	36	32	41	35	31	29				
10	55	42	35	30	54	42	35	30	40	34	29	39	33	29	38	32	29	27				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	37949	37949	37949
5°	38139	35265	34475
10°	38066	32817	31124
15°	38050	30417	28007
20°	38037	28010	24997
25°	37925	25517	21851
30°	37478	22815	18655
35°	36742	19669	15347
40°	35344	16649	12649
45°	33029	13685	10609
50°	30103	11168	8946
55°	25903	9218	7625
60°	21699	7546	6388
65°	17245	6267	5281
70°	13440	5268	4359
75°	10186	4472	3618
80°	7090	3954	3109
85°	4305	3600	2813



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.4	4.1
10°-20°	621.4	11.4
20°-30°	899.8	16.5
30°-40°	979.3	18.0
40°-50°	869.8	16.0
50°-60°	662.1	12.2
60°-70°	439.6	8.1
70°-80°	267.8	4.9
80°-90°	166.0	3.1
90°-100°	113.4	2.1
100°-110°	79.5	1.5
110°-120°	54.2	1.0
120°-130°	34.4	0.6
130°-140°	19.5	0.4
140°-150°	9.2	0.2
150°-160°	0.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1742.6	32.0
0°-40°	2721.9	50.1
0°-60°	4253.8	78.2
0°-90°	5127.2	94.3
90°-120°	247.1	4.5
90°-150°	310.2	5.7
90°-180°	311.0	5.7
0°-180°	5438.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2355	2355	2355	2355	2355	
5°	2366	2352	2321	2332	2318	225
15°	2306	2266	2183	2157	2129	652
25°	2175	2077	1928	1851	1802	1001
35°	1922	1750	1516	1384	1326	1198
45°	1510	1284	1043	954	931	1163
55°	977	794	673	662	659	876
65°	493	424	424	441	436	497
75°	189	215	269	284	275	204
85°	34	109	183	195	189	41
90°	0	80	155	169	163	2
95°	0	63	132	146	143	0
105°	0	40	94	109	109	0
115°	0	26	69	83	80	0
125°	0	17	46	57	57	0
135°	0	12	32	40	40	0
145°	0	6	17	23	23	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	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°	2355.1	2355.1	2355.1	2355.1	2355.1
2.5°	2369.4	2357.9	2335.0	2349.3	2340.7
5°	2366.5	2352.2	2320.7	2332.1	2317.8
7.5°	2357.9	2340.7	2297.8	2303.5	2280.6
10°	2343.6	2320.7	2266.2	2260.5	2237.6
12.5°	2326.4	2297.8	2231.9	2211.8	2188.9
15°	2306.4	2266.2	2183.2	2157.4	2128.7
17.5°	2283.4	2229.0	2134.5	2094.3	2062.8
20°	2251.9	2186.0	2071.4	2022.7	1988.3
22.5°	2220.4	2134.5	2005.5	1939.6	1902.4
25°	2174.6	2077.2	1928.2	1850.8	1802.1
27.5°	2123.0	2011.3	1842.2	1741.9	1687.5
30°	2062.8	1933.9	1747.7	1630.2	1581.5
32.5°	1996.9	1848.0	1633.1	1507.0	1452.6
35°	1922.4	1750.5	1515.6	1383.8	1326.5
37.5°	1830.8	1644.5	1398.1	1263.5	1217.6
40°	1739.1	1532.8	1280.7	1154.6	1105.9
42.5°	1635.9	1409.6	1160.3	1045.7	1011.4
45°	1509.9	1283.5	1042.9	954.1	931.1
47.5°	1386.7	1154.6	936.9	873.8	853.8
50°	1260.6	1028.6	836.6	796.5	782.2
52.5°	1114.5	905.4	753.5	727.7	722.0
55°	977.0	793.6	673.3	661.8	659.0
57.5°	845.2	687.6	598.8	607.4	601.7
60°	722.0	590.2	532.9	544.4	541.5
62.5°	601.7	501.4	472.7	495.7	489.9
65°	492.8	424.0	424.0	441.2	435.5
67.5°	398.2	361.0	378.2	395.4	389.6
70°	318.0	303.7	338.1	352.4	346.7
72.5°	246.4	255.0	298.0	315.2	306.6
75°	189.1	214.9	269.3	283.6	275.0
77.5°	134.7	180.5	243.5	255.0	246.4
80°	94.5	151.8	220.6	232.1	223.5
82.5°	60.2	128.9	200.6	212.0	206.3
85°	34.4	108.9	183.4	194.8	189.1
87.5°	17.2	94.5	166.2	180.5	174.8
90°	0.0	80.2	154.7	169.0	163.3
92.5°	0.0	71.6	143.3	157.6	151.8
95°	0.0	63.0	131.8	146.1	143.3
97.5°	0.0	57.3	123.2	137.5	131.8
100°	0.0	48.7	111.7	126.1	123.2
102.5°	0.0	45.8	103.1	117.5	114.6
105°	0.0	40.1	94.5	108.9	108.9
107.5°	0.0	37.2	88.8	103.1	100.3
110°	0.0	31.5	80.2	94.5	94.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	28.7	74.5	88.8	86.0
115°	0.0	25.8	68.8	83.1	80.2
117.5°	0.0	25.8	63.0	74.5	74.5
120°	0.0	22.9	57.3	68.8	68.8
122.5°	0.0	20.1	51.6	63.0	63.0
125°	0.0	17.2	45.8	57.3	57.3
127.5°	0.0	17.2	43.0	54.4	54.4
130°	0.0	14.3	37.2	48.7	48.7
132.5°	0.0	11.5	34.4	43.0	43.0
135°	0.0	11.5	31.5	40.1	40.1
137.5°	0.0	8.6	25.8	34.4	34.4
140°	0.0	8.6	22.9	31.5	31.5
142.5°	0.0	5.7	20.1	28.7	25.8
145°	0.0	5.7	17.2	22.9	22.9
147.5°	0.0	2.9	14.3	20.1	20.1
150°	0.0	2.9	11.5	17.2	14.3
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
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)