

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: P#

Luminaire Tested: **8SNLED-LD5-90SL-SLC-UNV-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27404)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNLED-LD5-90SL-SLC-UNV-L940-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

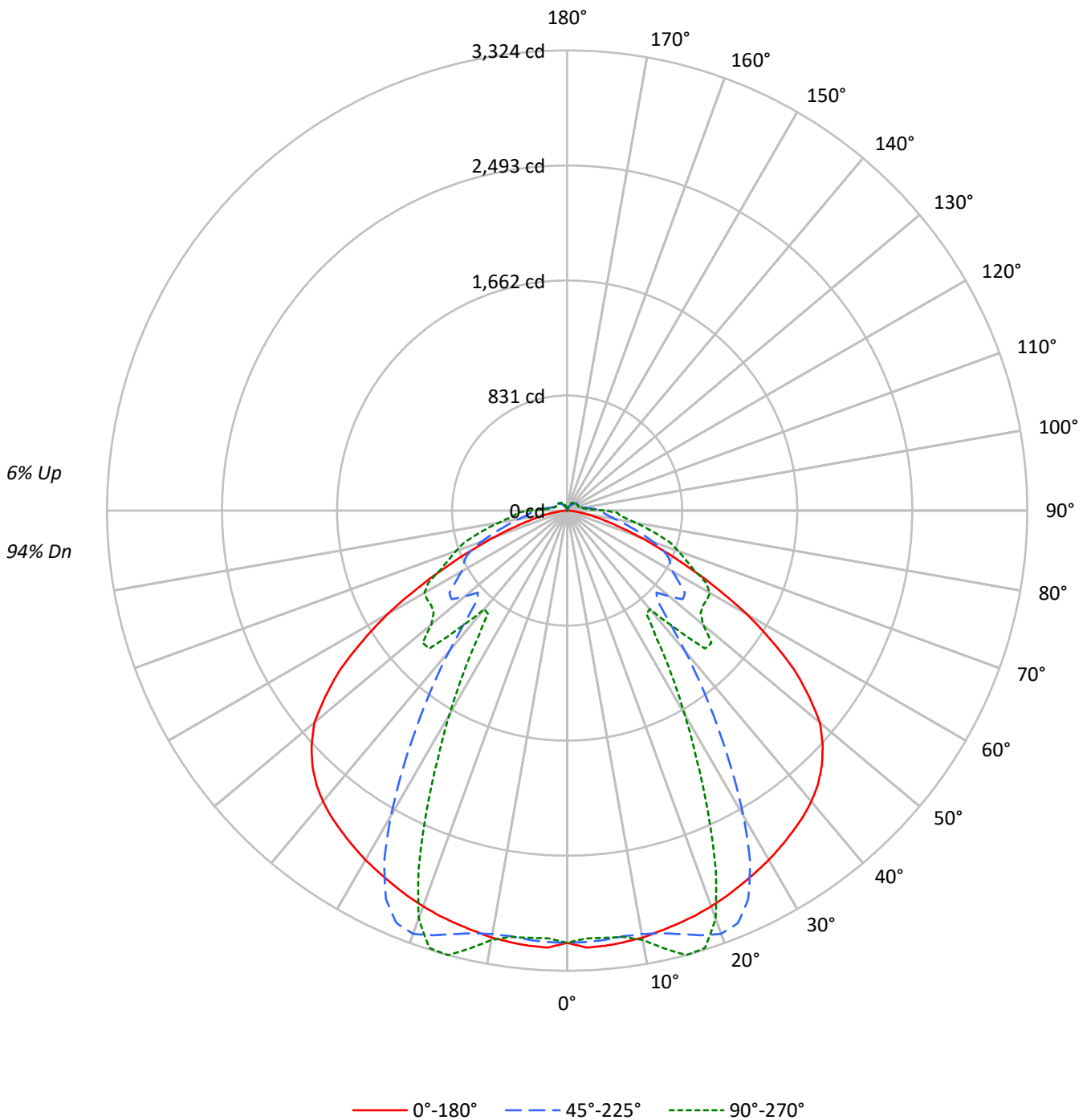
Lumens per Lamp: N/A
Luminaire Lumens: 8017.0 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 69
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	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	107	102	98	94	104	99	95	92	94	91	88	89	87	84	85	83	81	78				
2	98	90	83	77	95	87	81	76	83	78	73	79	74	71	75	71	68	66				
3	89	79	71	65	87	77	70	64	73	67	62	70	65	60	67	62	59	56				
4	82	71	62	56	80	69	61	55	66	59	53	63	57	52	60	55	51	49				
5	76	63	55	48	74	62	54	48	59	52	47	57	51	46	54	49	45	43				
6	70	58	49	43	68	56	48	42	54	47	41	52	45	41	50	44	40	38				
7	66	52	44	38	64	51	43	38	49	42	37	47	41	36	46	40	36	34				
8	61	48	40	34	59	47	39	34	45	38	33	44	37	33	42	37	32	30				
9	57	44	36	31	56	44	36	31	42	35	30	41	34	30	39	34	29	28				
10	54	41	33	28	52	40	33	28	39	32	28	38	32	27	37	31	27	25				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12610	12610	12610
5°	12781	12327	12164
10°	12815	12150	12122
15°	12868	12332	12634
20°	13007	12711	11859
25°	13189	12227	9131
30°	13473	10250	6495
35°	13832	7770	4398
40°	14285	5655	3724
45°	14645	4107	5855
50°	14707	4553	5556
55°	13794	5247	5487
60°	11805	4809	5832
65°	8933	4859	5335
70°	6322	4434	4965
75°	4198	3726	4456
80°	2747	3205	3709
85°	1577	3063	3329



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.9	3.7
10°-20°	896.7	11.2
20°-30°	1302.6	16.2
30°-40°	1244.5	15.5
40°-50°	1138.4	14.2
50°-60°	1051.1	13.1
60°-70°	834.9	10.4
70°-80°	515.3	6.4
80°-90°	280.6	3.5
90°-100°	141.8	1.8
100°-110°	89.1	1.1
110°-120°	75.5	0.9
120°-130°	61.7	0.8
130°-140°	44.2	0.6
140°-150°	27.3	0.3
150°-160°	13.0	0.2
160°-170°	3.4	0.0
170°-180°	0.0	0.0
0°-30°	2496.1	31.1
0°-40°	3740.7	46.7
0°-60°	5930.2	74.0
0°-90°	7561.1	94.3
90°-120°	306.4	3.8
90°-150°	439.6	5.5
90°-180°	456.0	5.7
0°-180°	8017.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3121	3121	3121	3121	3121	
5°	3156	3107	3113	3096	3098	300
15°	3089	3048	3166	3284	3324	874
25°	2980	3038	3096	2621	2407	1377
35°	2835	2789	1880	1294	1126	1778
45°	2603	1815	917	1170	1409	2000
55°	2002	931	1039	1118	1196	1763
65°	966	604	810	984	1007	977
75°	285	322	485	642	685	323
85°	40	137	275	374	380	51
90°	1	102	246	292	269	2
95°	0	95	170	151	142	0
105°	0	86	105	95	94	0
115°	0	70	101	90	86	1
125°	1	57	90	87	83	1
135°	1	40	72	79	76	1
145°	1	25	50	64	68	1
155°	3	15	30	40	48	1
165°	3	8	15	19	26	1
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°	3120.9	3120.9	3120.9	3120.9	3120.9
2.5°	3159.6	3114.0	3119.6	3109.9	3093.3
5°	3155.5	3107.1	3112.7	3096.1	3097.5
7.5°	3144.4	3094.7	3101.6	3098.8	3105.7
10°	3132.0	3079.5	3105.7	3129.2	3150.0
12.5°	3109.9	3062.9	3126.5	3195.5	3238.4
15°	3089.2	3047.7	3166.5	3284.0	3324.0
17.5°	3068.4	3042.2	3216.3	3318.5	3313.0
20°	3042.2	3039.4	3253.6	3219.0	3134.8
22.5°	3013.2	3040.8	3224.6	2971.7	2805.9
25°	2980.0	3038.0	3096.1	2620.8	2406.7
27.5°	2946.9	3025.6	2862.6	2236.7	2025.4
30°	2913.7	2992.5	2547.6	1885.8	1693.8
32.5°	2875.0	2920.6	2205.0	1575.0	1398.1
35°	2835.0	2789.4	1880.3	1294.5	1126.0
37.5°	2793.5	2600.1	1588.8	1048.6	940.8
40°	2743.8	2362.5	1320.8	899.4	928.4
42.5°	2681.6	2094.4	1084.5	943.6	1145.3
45°	2602.9	1815.4	917.4	1170.2	1409.2
47.5°	2503.4	1547.3	875.9	1340.1	1414.7
50°	2383.2	1301.4	962.9	1284.8	1279.3
52.5°	2200.8	1097.0	1051.4	1171.6	1215.8
55°	2001.9	931.2	1038.9	1117.7	1196.4
57.5°	1750.4	819.3	953.3	1106.6	1197.8
60°	1500.4	744.7	880.1	1105.2	1190.9
62.5°	1224.1	677.0	842.8	1079.0	1130.1
65°	965.7	603.7	809.6	983.7	1007.2
67.5°	740.5	529.1	751.6	877.3	924.3
70°	558.1	455.9	660.4	795.8	853.8
72.5°	402.0	386.8	566.4	723.9	784.7
75°	284.6	321.9	484.9	642.4	685.3
77.5°	196.2	262.5	415.8	552.6	587.2
80°	128.5	210.0	353.7	475.3	498.7
82.5°	77.4	168.6	306.7	415.8	428.3
85°	40.1	136.8	274.9	374.4	379.9
87.5°	12.4	114.7	257.0	355.1	362.0
90°	1.4	102.2	245.9	291.5	269.4
92.5°	0.0	96.7	212.8	198.9	178.2
95°	0.0	95.3	169.9	150.6	142.3
97.5°	0.0	92.6	139.5	125.7	121.6
100°	0.0	89.8	120.2	110.5	109.1
102.5°	0.0	88.4	109.1	100.9	99.5
105°	0.0	85.7	105.0	95.3	93.9
107.5°	0.0	81.5	102.2	92.6	89.8
110°	0.0	77.4	102.2	91.2	87.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	73.2	102.2	89.8	85.7
115°	0.0	70.5	100.9	89.8	85.7
117.5°	1.4	67.7	99.5	89.8	85.7
120°	0.0	64.9	96.7	89.8	84.3
122.5°	1.4	60.8	93.9	88.4	84.3
125°	1.4	56.6	89.8	87.0	82.9
127.5°	1.4	52.5	85.7	84.3	80.1
130°	1.4	48.4	81.5	82.9	78.7
132.5°	1.4	44.2	76.0	80.1	77.4
135°	1.4	40.1	71.8	78.7	76.0
137.5°	1.4	35.9	66.3	74.6	74.6
140°	1.4	31.8	60.8	71.8	73.2
142.5°	1.4	29.0	55.3	69.1	70.5
145°	1.4	24.9	49.7	63.6	67.7
147.5°	1.4	22.1	44.2	58.0	63.6
150°	1.4	19.3	38.7	52.5	58.0
152.5°	1.4	16.6	34.5	45.6	53.9
155°	2.8	15.2	30.4	40.1	48.4
157.5°	2.8	12.4	24.9	34.5	41.4
160°	2.8	11.1	22.1	29.0	37.3
162.5°	2.8	9.7	18.0	24.9	31.8
165°	2.8	8.3	15.2	19.3	26.2
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)