

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-LD5-98SL-SLC-UNV-L830-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-LD5-98SL-SLC-UNV-L830-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

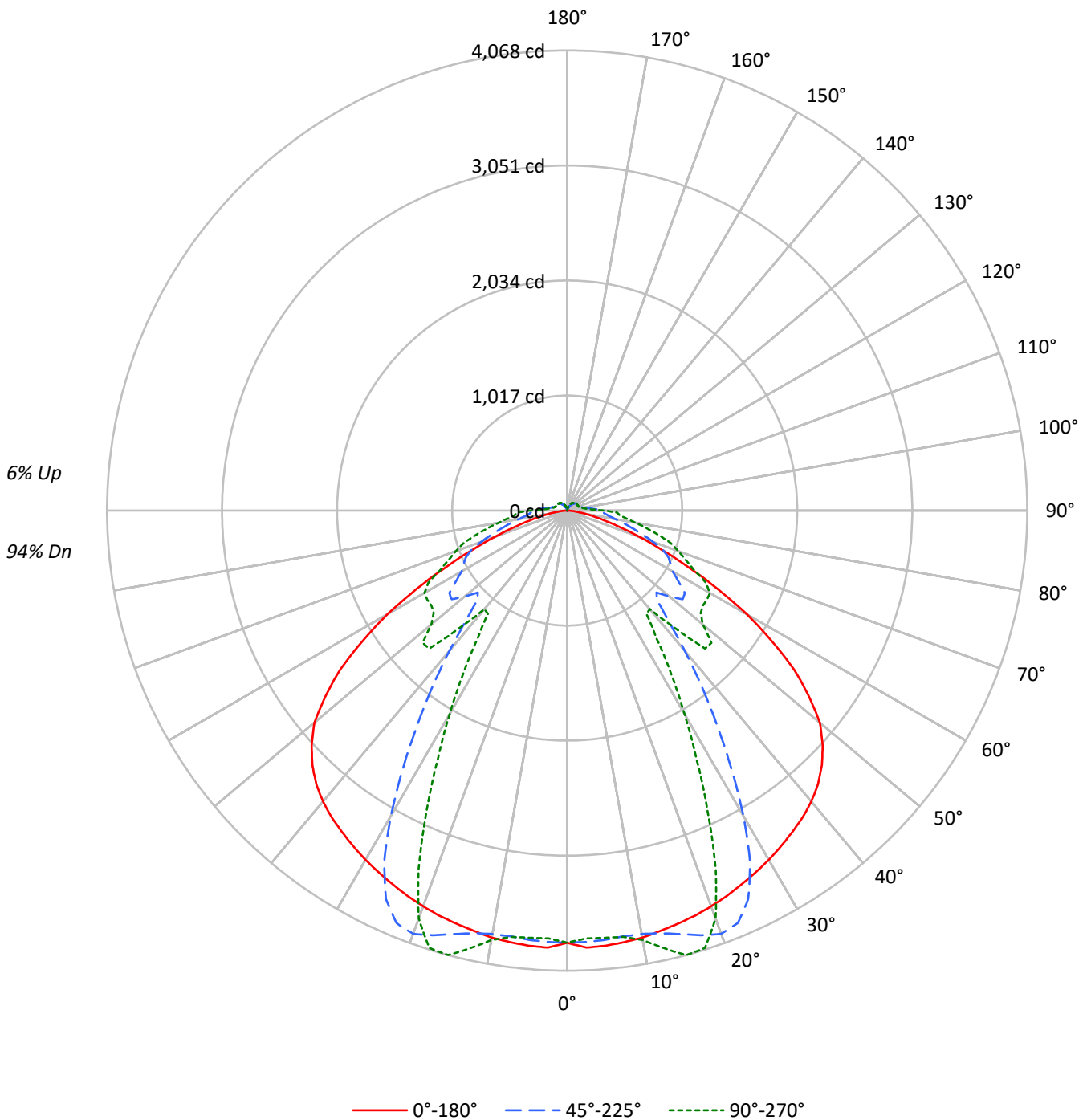
Lumens per Lamp: N/A
Luminaire Lumens: 9811.0 lumens
Efficiency: N/A
Efficacy: 130.8 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Direct

Input Watts (W): 75
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°	15432	15432	15432
5°	15641	15085	14886
10°	15683	14869	14834
15°	15748	15092	15461
20°	15918	15555	14512
25°	16141	14963	11174
30°	16487	12544	7948
35°	16928	9509	5382
40°	17482	6920	4557
45°	17921	5025	7165
50°	17998	5572	6799
55°	16881	6421	6715
60°	14447	5885	7137
65°	10932	5947	6528
70°	7737	5426	6077
75°	5138	4559	5453
80°	3360	3922	4539
85°	1927	3750	4074



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.3	3.7
10°-20°	1097.3	11.2
20°-30°	1594.0	16.2
30°-40°	1523.0	15.5
40°-50°	1393.1	14.2
50°-60°	1286.3	13.1
60°-70°	1021.8	10.4
70°-80°	630.6	6.4
80°-90°	343.4	3.5
90°-100°	173.6	1.8
100°-110°	109.1	1.1
110°-120°	92.4	0.9
120°-130°	75.5	0.8
130°-140°	54.1	0.6
140°-150°	33.4	0.3
150°-160°	15.8	0.2
160°-170°	4.1	0.0
170°-180°	0.0	0.0
0°-30°	3054.7	31.1
0°-40°	4577.7	46.7
0°-60°	7257.2	74.0
0°-90°	9253.0	94.3
90°-120°	375.0	3.8
90°-150°	538.0	5.5
90°-180°	558.0	5.7
0°-180°	9811.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3819	3819	3819	3819	3819	
5°	3862	3802	3809	3789	3791	367
15°	3780	3730	3875	4019	4068	1070
25°	3647	3718	3789	3207	2945	1686
35°	3469	3414	2301	1584	1378	2175
45°	3185	2222	1123	1432	1724	2448
55°	2450	1140	1271	1368	1464	2158
65°	1182	739	991	1204	1232	1195
75°	348	394	593	786	839	395
85°	49	167	336	458	465	62
90°	2	125	301	357	330	3
95°	0	117	208	184	174	0
105°	0	105	128	117	115	0
115°	0	86	123	110	105	1
125°	2	69	110	106	101	1
135°	2	49	88	96	93	1
145°	2	30	61	78	83	1
155°	3	19	37	49	59	1
165°	3	10	19	24	32	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: 8SNLED-LD5-98SL-SLC-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3819.3	3819.3	3819.3	3819.3	3819.3
2.5°	3866.7	3810.9	3817.6	3805.8	3785.5
5°	3861.6	3802.4	3809.2	3788.9	3790.6
7.5°	3848.1	3787.2	3795.7	3792.3	3800.7
10°	3832.9	3768.6	3800.7	3829.5	3854.8
12.5°	3805.8	3748.3	3826.1	3910.6	3963.0
15°	3780.4	3729.7	3875.1	4018.8	4067.9
17.5°	3755.1	3723.0	3936.0	4061.1	4054.3
20°	3723.0	3719.6	3981.6	3939.4	3836.2
22.5°	3687.5	3721.3	3946.1	3636.7	3433.8
25°	3646.9	3717.9	3788.9	3207.3	2945.2
27.5°	3606.3	3702.7	3503.2	2737.3	2478.6
30°	3565.7	3662.1	3117.7	2307.8	2072.8
32.5°	3518.4	3574.2	2698.4	1927.4	1711.0
35°	3469.4	3413.6	2301.1	1584.2	1377.9
37.5°	3418.6	3181.9	1944.3	1283.3	1151.4
40°	3357.8	2891.1	1616.3	1100.7	1136.2
42.5°	3281.7	2563.1	1327.2	1154.8	1401.6
45°	3185.3	2221.6	1122.6	1432.0	1724.5
47.5°	3063.6	1893.6	1071.9	1640.0	1731.3
50°	2916.5	1592.7	1178.4	1572.4	1565.6
52.5°	2693.3	1342.4	1286.6	1433.7	1487.8
55°	2449.8	1139.5	1271.4	1367.8	1464.2
57.5°	2142.1	1002.6	1166.6	1354.3	1465.9
60°	1836.1	911.3	1077.0	1352.6	1457.4
62.5°	1498.0	828.5	1031.3	1320.4	1383.0
65°	1181.8	738.8	990.8	1203.8	1232.5
67.5°	906.2	647.5	919.7	1073.6	1131.1
70°	683.0	557.9	808.2	973.9	1044.9
72.5°	492.0	473.4	693.2	885.9	960.3
75°	348.3	393.9	593.4	786.2	838.6
77.5°	240.1	321.2	508.9	676.3	718.6
80°	157.2	257.0	432.8	581.6	610.3
82.5°	94.7	206.3	375.3	508.9	524.1
85°	49.0	167.4	336.5	458.2	464.9
87.5°	15.2	140.3	314.5	434.5	443.0
90°	1.7	125.1	300.9	356.7	329.7
92.5°	0.0	118.4	260.4	243.5	218.1
95°	0.0	116.7	208.0	184.3	174.1
97.5°	0.0	113.3	170.8	153.9	148.8
100°	0.0	109.9	147.1	135.3	133.6
102.5°	0.0	108.2	133.6	123.4	121.7
105°	0.0	104.8	128.5	116.7	115.0
107.5°	0.0	99.8	125.1	113.3	109.9
110°	0.0	94.7	125.1	111.6	106.5



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CATALOG NUMBER: 8SNLED-LD5-98SL-SLC-UNV-L830-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	89.6	125.1	109.9	104.8
115°	0.0	86.2	123.4	109.9	104.8
117.5°	1.7	82.8	121.7	109.9	104.8
120°	0.0	79.5	118.4	109.9	103.1
122.5°	1.7	74.4	115.0	108.2	103.1
125°	1.7	69.3	109.9	106.5	101.4
127.5°	1.7	64.2	104.8	103.1	98.1
130°	1.7	59.2	99.8	101.4	96.4
132.5°	1.7	54.1	93.0	98.1	94.7
135°	1.7	49.0	87.9	96.4	93.0
137.5°	1.7	44.0	81.2	91.3	91.3
140°	1.7	38.9	74.4	87.9	89.6
142.5°	1.7	35.5	67.6	84.5	86.2
145°	1.7	30.4	60.9	77.8	82.8
147.5°	1.7	27.1	54.1	71.0	77.8
150°	1.7	23.7	47.3	64.2	71.0
152.5°	1.7	20.3	42.3	55.8	65.9
155°	3.4	18.6	37.2	49.0	59.2
157.5°	3.4	15.2	30.4	42.3	50.7
160°	3.4	13.5	27.1	35.5	45.6
162.5°	3.4	11.8	22.0	30.4	38.9
165°	3.4	10.1	18.6	23.7	32.1
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)