

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-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-LD5-98SL-SLC-UNV-L940-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
CLEAR SQUARE LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

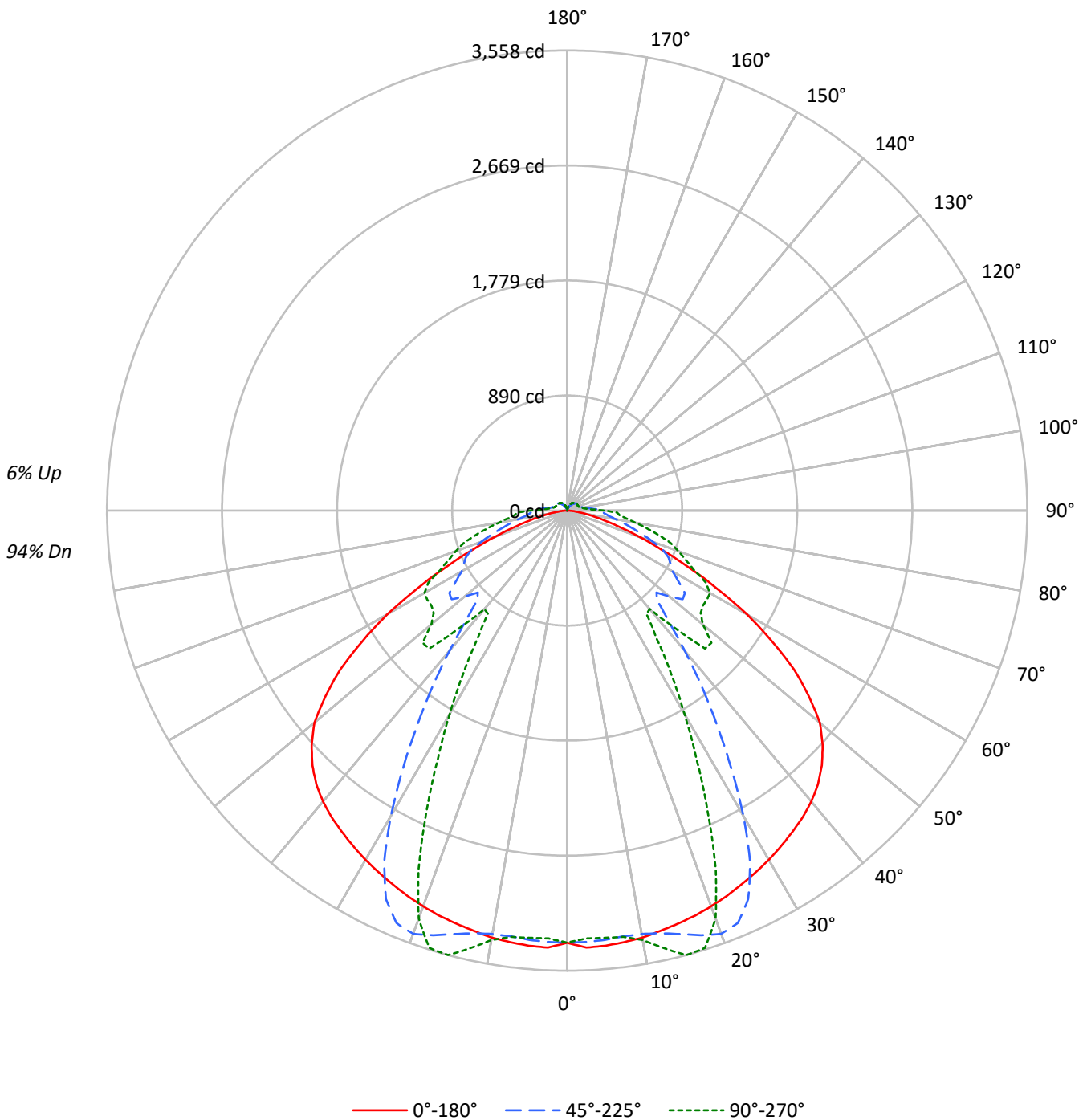
Lumens per Lamp: N/A  
Luminaire Lumens: 8581.0 lumens  
Efficiency: N/A  
Efficacy: 114.4 lumens/watt  
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Direct

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	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	64	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°	13497	13497	13497
5°	13680	13194	13019
10°	13716	13005	12974
15°	13774	13200	13523
20°	13922	13605	12693
25°	14117	13087	9774
30°	14420	10971	6952
35°	14805	8317	4707
40°	15290	6052	3986
45°	15675	4395	6266
50°	15741	4873	5947
55°	14765	5616	5873
60°	12635	5147	6242
65°	9562	5201	5710
70°	6767	4745	5315
75°	4493	3988	4769
80°	2939	3430	3970
85°	1687	3280	3564



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	317.8	3.7
10°-20°	959.7	11.2
20°-30°	1394.2	16.2
30°-40°	1332.1	15.5
40°-50°	1218.5	14.2
50°-60°	1125.1	13.1
60°-70°	893.7	10.4
70°-80°	551.6	6.4
80°-90°	300.4	3.5
90°-100°	151.8	1.8
100°-110°	95.4	1.1
110°-120°	80.8	0.9
120°-130°	66.0	0.8
130°-140°	47.4	0.6
140°-150°	29.2	0.3
150°-160°	13.9	0.2
160°-170°	3.6	0.0
170°-180°	0.0	0.0
0°-30°	2671.7	31.1
0°-40°	4003.8	46.7
0°-60°	6347.4	74.0
0°-90°	8093.0	94.3
90°-120°	328.0	3.8
90°-150°	470.5	5.5
90°-180°	488.0	5.7
0°-180°	8581.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3340	3340	3340	3340	3340	
5°	3378	3326	3332	3314	3315	321
15°	3306	3262	3389	3515	3558	936
25°	3190	3252	3314	2805	2576	1474
35°	3034	2986	2013	1386	1205	1903
45°	2786	1943	982	1252	1508	2141
55°	2143	997	1112	1196	1281	1887
65°	1034	646	866	1053	1078	1045
75°	305	344	519	688	734	345
85°	43	146	294	401	407	55
90°	2	109	263	312	288	2
95°	0	102	182	161	152	0
105°	0	92	112	102	101	0
115°	0	75	108	96	92	1
125°	2	61	96	93	89	1
135°	2	43	77	84	81	1
145°	2	27	53	68	72	1
155°	3	16	32	43	52	1
165°	3	9	16	21	28	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P#

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3340.5	3340.5	3340.5	3340.5	3340.5
2.5°	3381.9	3333.1	3339.0	3328.7	3310.9
5°	3377.5	3325.7	3331.6	3313.9	3315.4
7.5°	3365.6	3312.4	3319.8	3316.8	3324.2
10°	3352.3	3296.1	3324.2	3349.4	3371.6
12.5°	3328.7	3278.4	3346.4	3420.4	3466.2
15°	3306.5	3262.1	3389.3	3515.0	3557.9
17.5°	3284.3	3256.2	3442.5	3552.0	3546.0
20°	3256.2	3253.3	3482.5	3445.5	3355.3
22.5°	3225.2	3254.7	3451.4	3180.8	3003.3
25°	3189.7	3251.8	3313.9	2805.2	2576.0
27.5°	3154.2	3238.5	3064.0	2394.1	2167.9
30°	3118.7	3203.0	2726.8	2018.5	1813.0
32.5°	3077.3	3126.1	2360.1	1685.8	1496.5
35°	3034.4	2985.6	2012.6	1385.6	1205.2
37.5°	2990.0	2783.0	1700.6	1122.4	1007.0
40°	2936.8	2528.7	1413.7	962.7	993.7
42.5°	2870.3	2241.8	1160.8	1010.0	1225.9
45°	2786.0	1943.1	981.9	1252.5	1508.3
47.5°	2679.5	1656.2	937.5	1434.4	1514.2
50°	2550.8	1393.0	1030.7	1375.2	1369.3
52.5°	2355.7	1174.1	1125.3	1254.0	1301.3
55°	2142.7	996.7	1112.0	1196.3	1280.6
57.5°	1873.6	876.9	1020.3	1184.5	1282.1
60°	1605.9	797.0	942.0	1183.0	1274.7
62.5°	1310.2	724.6	902.0	1154.9	1209.6
65°	1033.6	646.2	866.5	1052.9	1078.0
67.5°	792.6	566.4	804.4	939.0	989.3
70°	597.4	488.0	706.8	851.8	913.9
72.5°	430.3	414.1	606.3	774.9	839.9
75°	304.6	344.5	519.0	687.6	733.5
77.5°	210.0	281.0	445.1	591.5	628.5
80°	137.5	224.8	378.6	508.7	533.8
82.5°	82.8	180.4	328.3	445.1	458.4
85°	42.9	146.4	294.3	400.7	406.7
87.5°	13.3	122.7	275.0	380.0	387.4
90°	1.5	109.4	263.2	312.0	288.4
92.5°	0.0	103.5	227.7	212.9	190.8
95°	0.0	102.0	181.9	161.2	152.3
97.5°	0.0	99.1	149.4	134.6	130.1
100°	0.0	96.1	128.7	118.3	116.8
102.5°	0.0	94.6	116.8	107.9	106.5
105°	0.0	91.7	112.4	102.0	100.6
107.5°	0.0	87.2	109.4	99.1	96.1
110°	0.0	82.8	109.4	97.6	93.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	78.4	109.4	96.1	91.7
115°	0.0	75.4	107.9	96.1	91.7
117.5°	1.5	72.5	106.5	96.1	91.7
120°	0.0	69.5	103.5	96.1	90.2
122.5°	1.5	65.1	100.6	94.6	90.2
125°	1.5	60.6	96.1	93.2	88.7
127.5°	1.5	56.2	91.7	90.2	85.8
130°	1.5	51.8	87.2	88.7	84.3
132.5°	1.5	47.3	81.3	85.8	82.8
135°	1.5	42.9	76.9	84.3	81.3
137.5°	1.5	38.4	71.0	79.9	79.9
140°	1.5	34.0	65.1	76.9	78.4
142.5°	1.5	31.1	59.2	73.9	75.4
145°	1.5	26.6	53.2	68.0	72.5
147.5°	1.5	23.7	47.3	62.1	68.0
150°	1.5	20.7	41.4	56.2	62.1
152.5°	1.5	17.7	37.0	48.8	57.7
155°	3.0	16.3	32.5	42.9	51.8
157.5°	3.0	13.3	26.6	37.0	44.4
160°	3.0	11.8	23.7	31.1	39.9
162.5°	3.0	10.4	19.2	26.6	34.0
165°	3.0	8.9	16.3	20.7	28.1
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)