

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-L850-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-L850-CD1-U  
Description: 8FT LINEAR SNLED LED FIXTURE  
CLEAR SQUARE LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

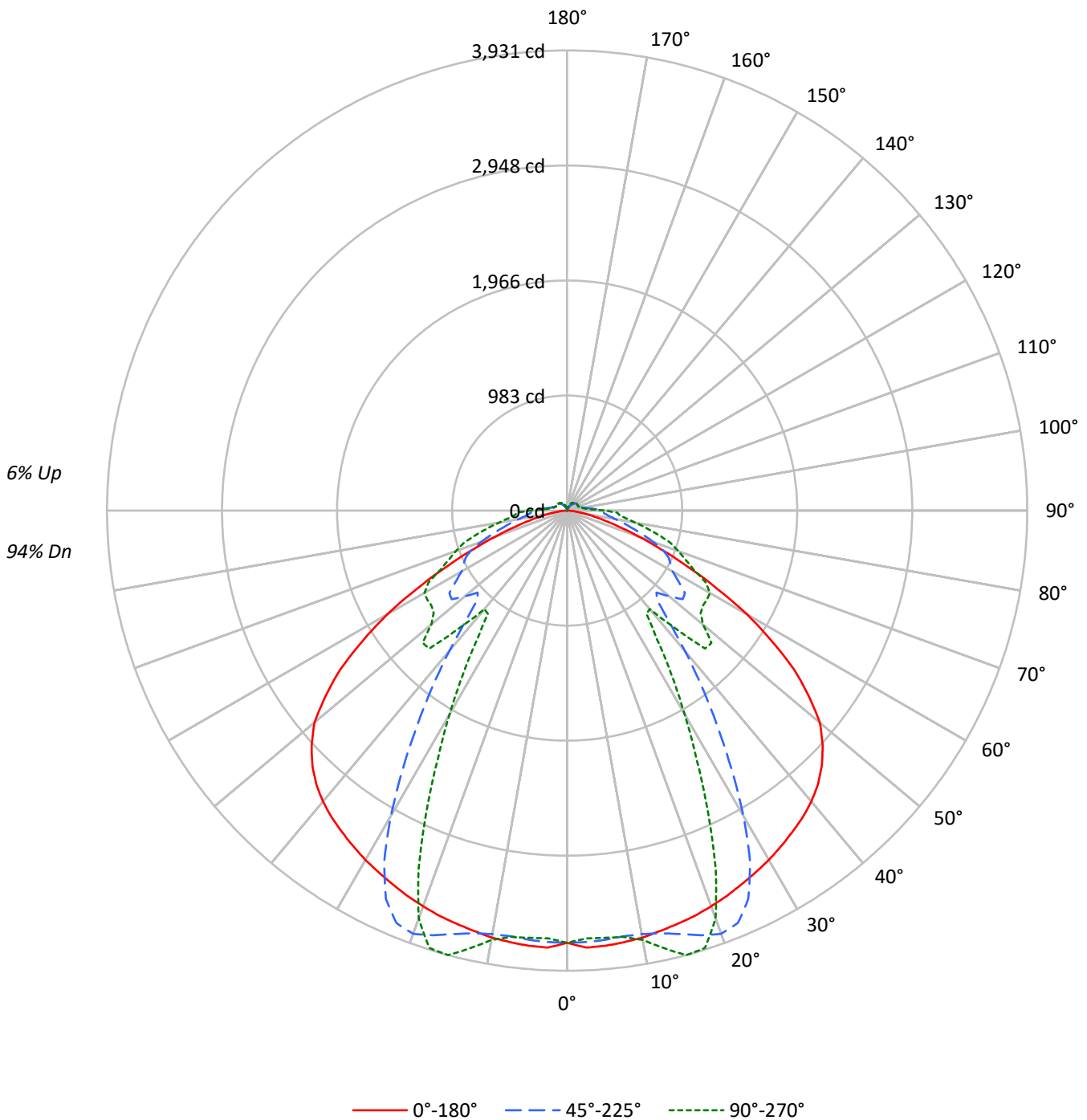
Lumens per Lamp: N/A  
Luminaire Lumens: 9481.0 lumens  
Efficiency: N/A  
Efficacy: 137.4 lumens/watt  
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')  
CIE Type: Direct

Input Watts (W): 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	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°	14913	14913	14913
5°	15115	14578	14385
10°	15155	14369	14335
15°	15218	14584	14941
20°	15382	15032	14024
25°	15598	14460	10799
30°	15933	12122	7681
35°	16358	9189	5201
40°	16893	6687	4404
45°	17319	4857	6924
50°	17392	5384	6571
55°	16313	6205	6489
60°	13961	5687	6897
65°	10565	5746	6309
70°	7477	5243	5872
75°	4965	4406	5269
80°	3247	3790	4386
85°	1864	3623	3937



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	351.1	3.7
10°-20°	1060.4	11.2
20°-30°	1540.4	16.2
30°-40°	1471.8	15.5
40°-50°	1346.3	14.2
50°-60°	1243.1	13.1
60°-70°	987.4	10.4
70°-80°	609.4	6.4
80°-90°	331.9	3.5
90°-100°	167.7	1.8
100°-110°	105.4	1.1
110°-120°	89.3	0.9
120°-130°	72.9	0.8
130°-140°	52.3	0.6
140°-150°	32.3	0.3
150°-160°	15.3	0.2
160°-170°	4.0	0.0
170°-180°	0.0	0.0
0°-30°	2952.0	31.1
0°-40°	4423.7	46.7
0°-60°	7013.1	74.0
0°-90°	8941.8	94.3
90°-120°	362.4	3.8
90°-150°	519.9	5.5
90°-180°	539.0	5.7
0°-180°	9481.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3691	3691	3691	3691	3691	
5°	3732	3674	3681	3662	3663	355
15°	3653	3604	3745	3884	3931	1034
25°	3524	3593	3662	3099	2846	1629
35°	3353	3299	2224	1531	1332	2102
45°	3078	2147	1085	1384	1666	2366
55°	2367	1101	1229	1322	1415	2085
65°	1142	714	957	1163	1191	1155
75°	337	381	574	760	810	382
85°	47	162	325	443	449	60
90°	2	121	291	345	319	2
95°	0	113	201	178	168	0
105°	0	101	124	113	111	0
115°	0	83	119	106	101	1
125°	2	67	106	103	98	1
135°	2	47	85	93	90	1
145°	2	29	59	75	80	1
155°	3	18	36	47	57	1
165°	3	10	18	23	31	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CATALOG NUMBER: 8SNLED-LD5-90SL-SLC-UNV-L850-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3690.9	3690.9	3690.9	3690.9	3690.9
2.5°	3736.6	3682.7	3689.2	3677.8	3658.2
5°	3731.7	3674.5	3681.1	3661.5	3663.1
7.5°	3718.6	3659.8	3668.0	3664.7	3672.9
10°	3703.9	3641.8	3672.9	3700.7	3725.2
12.5°	3677.8	3622.2	3697.4	3779.1	3829.7
15°	3653.3	3604.3	3744.8	3883.7	3931.0
17.5°	3628.8	3597.7	3803.6	3924.5	3918.0
20°	3597.7	3594.5	3847.7	3806.9	3707.2
22.5°	3563.4	3596.1	3813.4	3514.4	3318.3
25°	3524.2	3592.8	3661.5	3099.4	2846.2
27.5°	3485.0	3578.1	3385.3	2645.2	2395.2
30°	3445.8	3538.9	3012.8	2230.2	2003.1
32.5°	3400.0	3454.0	2607.6	1862.6	1653.5
35°	3352.7	3298.7	2223.7	1530.9	1331.6
37.5°	3303.6	3074.9	1878.9	1240.1	1112.7
40°	3244.8	2793.9	1562.0	1063.6	1097.9
42.5°	3171.3	2476.9	1282.6	1115.9	1354.5
45°	3078.2	2146.9	1084.9	1383.9	1666.5
47.5°	2960.5	1829.9	1035.9	1584.8	1673.1
50°	2818.4	1539.1	1138.8	1519.5	1512.9
52.5°	2602.7	1297.3	1243.4	1385.5	1437.8
55°	2367.4	1101.2	1228.7	1321.8	1414.9
57.5°	2070.1	968.9	1127.4	1308.7	1416.5
60°	1774.4	880.6	1040.8	1307.1	1408.4
62.5°	1447.6	800.6	996.6	1276.0	1336.5
65°	1142.1	714.0	957.4	1163.3	1191.1
67.5°	875.7	625.8	888.8	1037.5	1093.0
70°	660.1	539.2	781.0	941.1	1009.7
72.5°	475.4	457.5	669.9	856.1	928.0
75°	336.6	380.7	573.5	759.7	810.4
77.5°	232.0	310.4	491.8	653.5	694.4
80°	151.9	248.3	418.3	562.0	589.8
82.5°	91.5	199.3	362.7	491.8	506.5
85°	47.4	161.8	325.1	442.8	449.3
87.5°	14.7	135.6	303.9	419.9	428.1
90°	1.6	120.9	290.8	344.7	318.6
92.5°	0.0	114.4	251.6	235.3	210.8
95°	0.0	112.7	201.0	178.1	168.3
97.5°	0.0	109.5	165.0	148.7	143.8
100°	0.0	106.2	142.1	130.7	129.1
102.5°	0.0	104.6	129.1	119.3	117.6
105°	0.0	101.3	124.2	112.7	111.1
107.5°	0.0	96.4	120.9	109.5	106.2
110°	0.0	91.5	120.9	107.8	102.9



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CATALOG NUMBER: 8SNLED-LD5-90SL-SLC-UNV-L850-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	86.6	120.9	106.2	101.3
115°	0.0	83.3	119.3	106.2	101.3
117.5°	1.6	80.1	117.6	106.2	101.3
120°	0.0	76.8	114.4	106.2	99.7
122.5°	1.6	71.9	111.1	104.6	99.7
125°	1.6	67.0	106.2	102.9	98.0
127.5°	1.6	62.1	101.3	99.7	94.8
130°	1.6	57.2	96.4	98.0	93.1
132.5°	1.6	52.3	89.9	94.8	91.5
135°	1.6	47.4	85.0	93.1	89.9
137.5°	1.6	42.5	78.4	88.2	88.2
140°	1.6	37.6	71.9	85.0	86.6
142.5°	1.6	34.3	65.4	81.7	83.3
145°	1.6	29.4	58.8	75.2	80.1
147.5°	1.6	26.1	52.3	68.6	75.2
150°	1.6	22.9	45.7	62.1	68.6
152.5°	1.6	19.6	40.8	53.9	63.7
155°	3.3	18.0	35.9	47.4	57.2
157.5°	3.3	14.7	29.4	40.8	49.0
160°	3.3	13.1	26.1	34.3	44.1
162.5°	3.3	11.4	21.2	29.4	37.6
165°	3.3	9.8	18.0	22.9	31.0
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)