

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: P290118

Luminaire Tested: **4SSRK-LN-80-L940-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290118  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-10)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SSRK-LN-80-L940-CD1-U  
Description: 8000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH ROUND NARROW LENS AND 90 CRI 4000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7193.5 lumens  
Efficiency: N/A  
Efficacy: 114.4 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.03 / 1.16  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')  
CIE Type: Direct

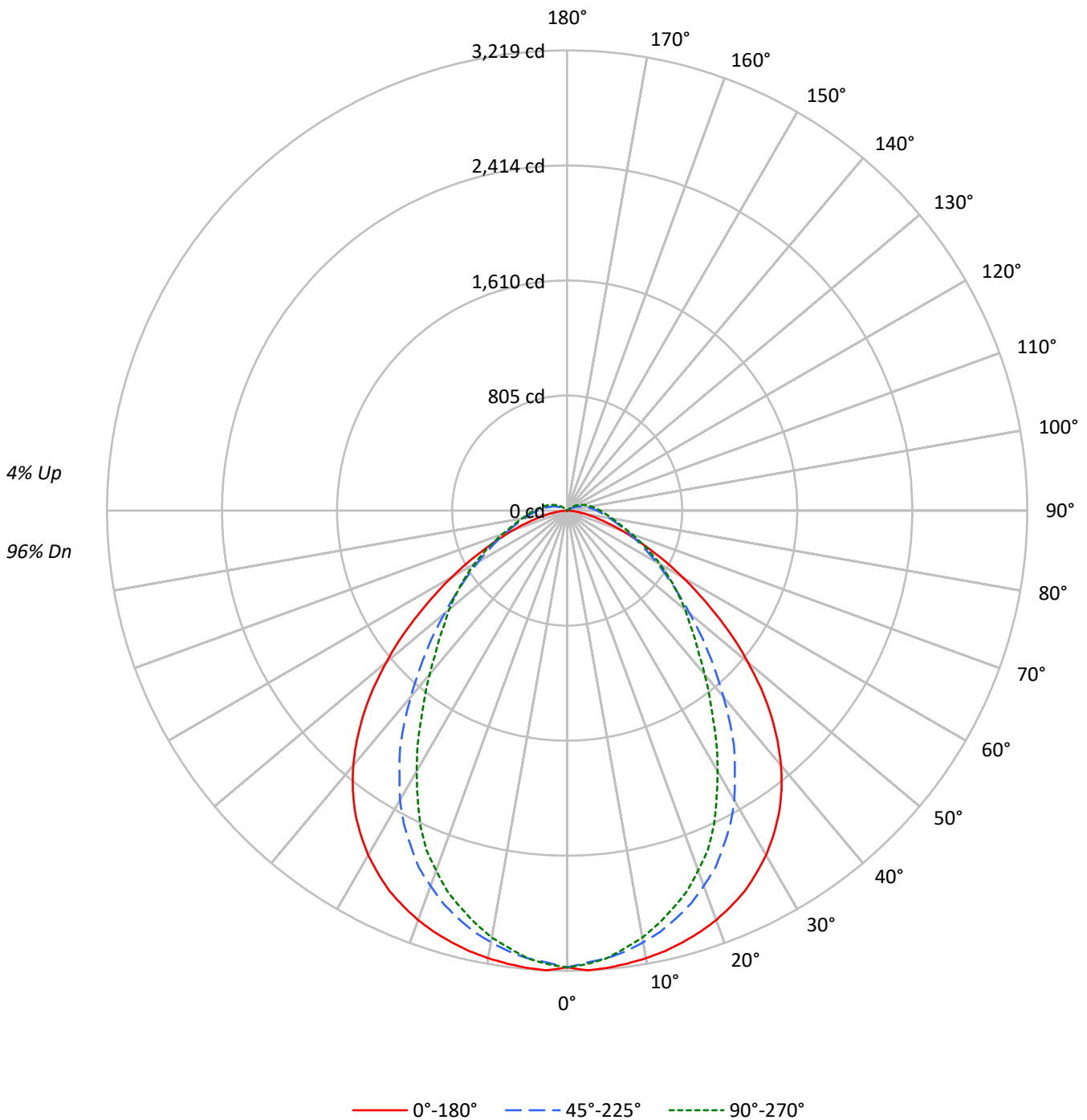
Input Watts (W): 62.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	115	115	115	115	109	109	109	103	103	103	98	98	98	96				
1	108	104	99	96	105	101	97	94	96	93	90	91	89	86	87	85	83	81				
2	99	91	85	80	96	89	83	78	85	80	76	81	77	74	78	74	71	69				
3	91	81	74	68	88	79	72	67	76	70	65	73	68	63	70	65	62	59				
4	84	73	65	58	81	71	64	58	68	62	56	65	60	55	63	58	54	52				
5	78	66	57	51	75	64	56	51	62	55	50	59	53	49	57	52	48	46				
6	72	60	51	45	70	58	51	45	56	49	44	54	48	43	52	47	43	41				
7	67	54	46	40	65	53	46	40	52	45	39	50	44	39	48	43	38	36				
8	63	50	42	36	61	49	41	36	47	41	36	46	40	35	44	39	35	33				
9	59	46	38	33	57	45	38	33	44	37	32	43	36	32	41	36	32	30				
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	38	33	29	27				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	206368	206368	206368
5°	207386	163087	151015
10°	206976	133730	116633
15°	206700	111767	92802
20°	206366	94105	74980
25°	205384	79085	60408
30°	202693	65805	47412
35°	197989	53584	36904
40°	189718	42190	28996
45°	176694	32967	23042
50°	157910	25486	18764
55°	135488	19834	15241
60°	112219	15556	12253
65°	88770	12242	9678
70°	68518	9691	7608
75°	50424	7872	6056
80°	35378	6490	5022
85°	20379	5474	4281



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	300.0	4.2
10°-20°	840.1	11.7
20°-30°	1210.7	16.8
30°-40°	1311.4	18.2
40°-50°	1161.5	16.1
50°-60°	883.8	12.3
60°-70°	588.8	8.2
70°-80°	363.8	5.1
80°-90°	227.9	3.2
90°-100°	149.8	2.1
100°-110°	91.8	1.3
110°-120°	47.3	0.7
120°-130°	15.5	0.2
130°-140°	0.9	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2350.8	32.7
0°-40°	3662.2	50.9
0°-60°	5707.6	79.3
0°-90°	6888.2	95.8
90°-120°	288.9	4.0
90°-150°	305.4	4.2
90°-180°	305.0	4.2
0°-180°	7193.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3195	3195	3195	3195	3195	
5°	3211	3190	3145	3156	3145	305
15°	3126	3067	2952	2912	2876	883
25°	2938	2800	2589	2478	2429	1352
35°	2584	2343	2040	1848	1779	1611
45°	2015	1700	1392	1287	1261	1546
55°	1275	1041	895	906	909	1145
65°	633	555	571	604	607	639
75°	234	284	368	392	387	258
85°	41	146	249	274	270	50
90°	2	107	207	234	232	3
95°	4	75	172	199	198	3
105°	2	30	107	137	140	3
115°	2	2	55	85	93	2
125°	2	2	2	37	46	2
135°	0	0	0	0	0	1
145°	0	0	0	0	0	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°	3195.4	3195.4	3195.4	3195.4	3195.4
2.5°	3219.0	3201.3	3164.9	3186.1	3175.9
5°	3210.6	3190.3	3144.6	3156.4	3144.6
7.5°	3197.0	3171.7	3110.8	3115.8	3087.9
10°	3179.3	3145.4	3066.8	3058.3	3032.9
12.5°	3156.4	3109.1	3016.9	2983.0	2958.5
15°	3126.0	3066.8	2951.7	2911.9	2875.6
17.5°	3091.3	3015.2	2881.5	2833.3	2790.1
20°	3048.2	2952.6	2793.5	2726.7	2679.3
22.5°	2995.7	2884.0	2706.4	2609.1	2571.0
25°	2938.2	2800.3	2588.8	2477.9	2428.9
27.5°	2862.9	2708.1	2472.9	2334.1	2263.9
30°	2783.4	2598.9	2338.4	2178.5	2104.0
32.5°	2687.8	2479.6	2182.7	2012.6	1946.7
35°	2584.5	2342.6	2039.7	1847.7	1779.1
37.5°	2462.7	2194.5	1869.7	1693.7	1633.6
40°	2329.0	2033.8	1700.5	1545.6	1498.3
42.5°	2176.8	1870.5	1541.4	1407.8	1367.1
45°	2015.2	1699.6	1392.5	1286.8	1261.4
47.5°	1839.2	1528.7	1252.9	1177.6	1159.0
50°	1649.7	1357.8	1117.6	1076.1	1077.0
52.5°	1469.5	1196.2	1002.5	991.5	989.0
55°	1274.9	1040.6	895.1	906.1	908.6
57.5°	1099.0	895.9	803.7	824.0	826.5
60°	931.5	766.5	716.6	747.9	752.1
62.5°	778.3	655.7	642.1	674.3	673.4
65°	632.8	555.0	571.1	604.0	606.6
67.5°	509.3	472.9	511.8	540.6	538.9
70°	404.4	399.3	454.3	484.8	483.1
72.5°	314.7	337.6	409.5	435.7	428.9
75°	233.5	284.3	368.0	392.5	386.6
77.5°	171.7	240.3	331.6	355.3	351.1
80°	117.6	203.9	300.3	324.9	319.8
82.5°	75.3	173.4	273.3	296.9	293.6
85°	40.6	146.4	248.7	274.1	269.9
87.5°	15.2	124.4	226.7	252.1	250.4
90°	1.7	106.6	207.3	233.5	231.8
92.5°	2.5	90.5	188.7	215.7	215.7
95°	4.2	75.3	171.7	198.8	198.0
97.5°	3.4	63.5	153.1	182.7	182.7
100°	3.4	52.5	136.2	165.8	167.5
102.5°	3.4	41.5	121.8	150.6	154.0
105°	2.5	29.6	107.4	137.1	140.4
107.5°	2.5	16.9	93.1	124.4	128.6
110°	2.5	4.2	80.4	110.8	115.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.5	2.5	67.7	98.1	103.2
115°	2.5	2.5	55.0	85.4	93.1
117.5°	1.7	1.7	40.6	74.4	81.2
120°	1.7	1.7	25.4	62.6	69.4
122.5°	1.7	1.7	11.0	49.9	59.2
125°	1.7	1.7	1.7	37.2	46.5
127.5°	1.7	1.7	0.8	22.0	33.0
130°	1.7	1.7	0.8	8.5	20.3
132.5°	1.7	1.7	0.8	0.8	5.9
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
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)