

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: P290342

Luminaire Tested: **8SSRK-SLC-12-L940-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290342  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-16)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SSRK-SLC-12-L940-CD1-U  
Description: 12000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH SQUARE CLEAR LENS AND 90 CRI 4000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

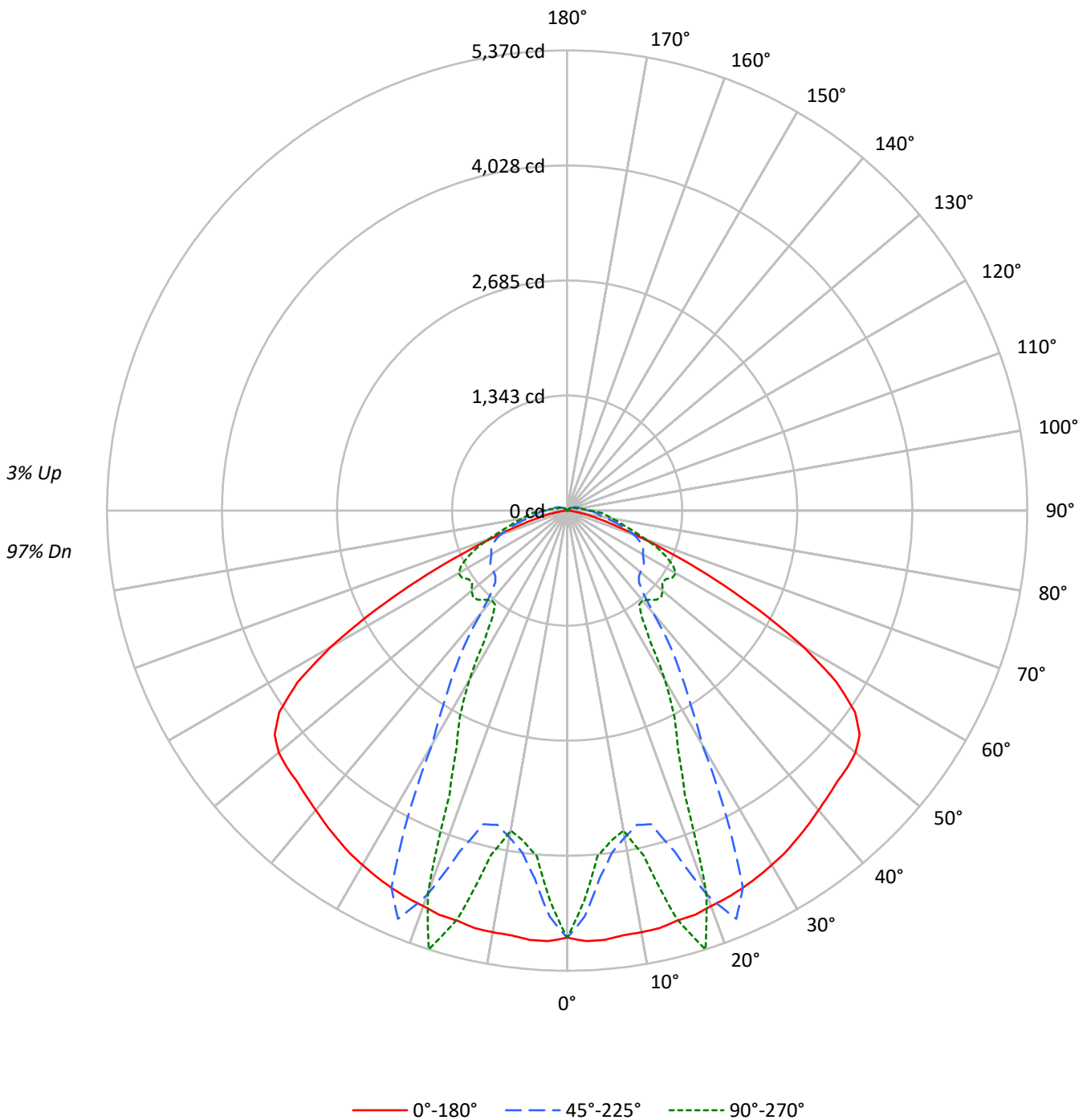
Lumens per Lamp: N/A  
Luminaire Lumens: 10480.2 lumens  
Efficiency: N/A  
Efficacy: 129.6 lumens/watt  
Spacing Criteria (0/90/45): 1.44 / 0.89 / 0.98  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 80.8951  
Input Voltage (V): NR  
Input 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	115	115	115	115	109	109	109	104	104	104	99	99	99	97
1	108	103	99	95	105	101	97	93	96	93	90	91	89	87	87	85	83	81
2	99	91	84	79	96	89	83	78	85	80	75	81	77	73	77	74	71	69
3	91	81	73	67	88	79	72	66	75	69	64	72	67	63	69	65	61	59
4	84	72	64	57	81	71	63	57	68	61	56	65	59	54	62	57	53	51
5	77	65	56	50	75	64	56	50	61	54	49	59	53	48	57	51	47	45
6	72	59	50	44	70	58	50	44	56	49	43	54	47	43	52	46	42	40
7	67	54	45	40	65	53	45	39	51	44	39	49	43	38	48	42	38	36
8	62	49	41	36	61	49	41	35	47	40	35	46	39	35	44	38	34	32
9	58	46	38	32	57	45	37	32	44	37	32	42	36	32	41	35	31	29
10	55	42	35	30	54	42	34	30	40	34	29	39	33	29	38	33	29	27

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

	0°	45°	90°
0°	160944	160944	160944
5°	162705	111936	97277
10°	163211	84569	72899
15°	164686	71897	79480
20°	167508	80574	66432
25°	171332	74327	37947
30°	175959	44513	25705
35°	181692	30317	15734
40°	189029	19500	13229
45°	199715	14104	13449
50°	215343	12784	12684
55°	224176	12175	11732
60°	198608	11114	11919
65°	139033	10459	10197
70°	80801	8892	7669
75°	45935	6717	5456
80°	26094	4741	4219
85°	12598	3806	3453



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	414.0	4.0
10°-20°	1243.6	11.9
20°-30°	1830.4	17.5
30°-40°	1788.1	17.1
40°-50°	1482.4	14.1
50°-60°	1360.9	13.0
60°-70°	1078.4	10.3
70°-80°	598.8	5.7
80°-90°	317.1	3.0
90°-100°	166.8	1.6
100°-110°	100.4	1.0
110°-120°	57.3	0.5
120°-130°	31.6	0.3
130°-140°	10.0	0.1
140°-150°	0.3	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3488.0	33.3
0°-40°	5276.2	50.3
0°-60°	8119.5	77.5
0°-90°	10113.8	96.5
90°-120°	324.4	3.1
90°-150°	366.3	3.5
90°-180°	366.0	3.5
0°-180°	10480.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4984	4984	4984	4984	4984	
5°	5029	4746	4312	4128	4051	478
15°	4954	3956	3789	4640	4926	1405
25°	4855	3777	4852	3308	3052	2244
35°	4676	4509	2300	1643	1517	2934
45°	4464	2039	1187	1354	1472	3462
55°	4100	908	1094	1311	1399	3561
65°	1901	590	972	1233	1278	1924
75°	397	359	625	667	696	470
85°	42	177	344	418	435	58
90°	1	129	252	275	273	2
95°	2	102	196	204	194	2
105°	2	68	137	118	106	2
115°	2	8	89	84	78	2
125°	2	2	41	66	64	2
135°	2	2	2	28	35	2
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°	4984.1	4984.1	4984.1	4984.1	4984.1
2.5°	5028.6	4938.5	4738.3	4602.5	4556.9
5°	5028.6	4746.5	4312.2	4128.5	4051.2
7.5°	4998.2	4503.0	4020.8	3941.2	3890.8
10°	4995.8	4243.2	3872.1	3805.4	3791.3
12.5°	4990.0	4099.2	3757.4	3993.8	4121.4
15°	4953.7	3956.4	3789.0	4640.0	4925.6
17.5°	4947.8	3849.9	4172.9	5249.8	5370.4
20°	4911.5	3765.6	4771.1	5172.6	4747.7
22.5°	4888.1	3707.1	5156.2	4161.2	3583.0
25°	4855.4	3777.3	4851.8	3307.9	3051.6
27.5°	4817.9	4003.2	4021.9	2879.5	2709.8
30°	4775.8	4356.7	3153.4	2516.6	2281.4
32.5°	4733.6	4615.4	2684.0	2066.0	1789.7
35°	4676.3	4508.9	2300.1	1643.4	1517.0
37.5°	4622.4	4017.3	1950.1	1418.7	1382.4
40°	4562.7	3236.5	1566.2	1329.7	1367.2
42.5°	4512.4	2565.8	1315.7	1320.4	1412.8
45°	4464.4	2039.1	1186.9	1354.3	1472.5
47.5°	4436.3	1621.2	1135.4	1395.3	1490.1
50°	4393.0	1299.3	1116.7	1403.5	1456.1
52.5°	4301.7	1071.0	1110.8	1360.2	1396.4
55°	4100.4	908.3	1094.4	1311.0	1398.8
57.5°	3729.3	807.7	1057.0	1321.5	1456.1
60°	3186.2	729.2	1019.5	1355.5	1463.2
62.5°	2535.4	657.8	999.6	1327.4	1394.1
65°	1900.9	589.9	971.5	1232.6	1278.2
67.5°	1330.9	531.4	908.3	1114.3	1138.9
70°	904.8	475.2	829.9	963.3	973.9
72.5°	608.7	419.0	732.8	807.7	824.1
75°	396.8	359.4	625.1	667.2	696.5
77.5°	252.8	305.5	518.5	572.4	609.8
80°	156.9	252.8	436.6	513.9	537.3
82.5°	87.8	210.7	378.1	458.8	471.7
85°	42.1	176.7	344.1	417.9	435.4
87.5°	10.5	149.8	303.2	346.5	346.5
90°	1.2	128.8	251.7	275.1	272.7
92.5°	1.2	113.5	218.9	234.1	229.4
95°	2.3	101.8	195.5	203.7	194.3
97.5°	2.3	96.0	180.3	174.4	160.4
100°	2.3	89.0	163.9	148.7	133.4
102.5°	2.3	79.6	149.8	131.1	118.2
105°	2.3	67.9	137.0	118.2	106.5
107.5°	2.3	53.8	122.9	107.7	98.3
110°	2.3	38.6	110.0	99.5	92.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.3	23.4	99.5	92.5	86.6
115°	2.3	8.2	89.0	84.3	78.4
117.5°	2.3	3.5	78.4	80.8	73.7
120°	2.3	3.5	65.5	76.1	70.2
122.5°	2.3	3.5	53.8	71.4	67.9
125°	2.3	2.3	41.0	65.5	64.4
127.5°	2.3	2.3	28.1	57.4	59.7
130°	2.3	2.3	14.0	46.8	52.7
132.5°	2.3	2.3	2.3	38.6	43.3
135°	2.3	2.3	2.3	28.1	35.1
137.5°	2.3	2.3	2.3	14.0	25.8
140°	2.3	2.3	2.3	2.3	10.5
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)