

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: P290334

Luminaire Tested: **8SSRK-SLC-10-L940-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290334  
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-10-L940-CD1-U  
Description: 10000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH SQUARE CLEAR LENS AND 90 CRI 4000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

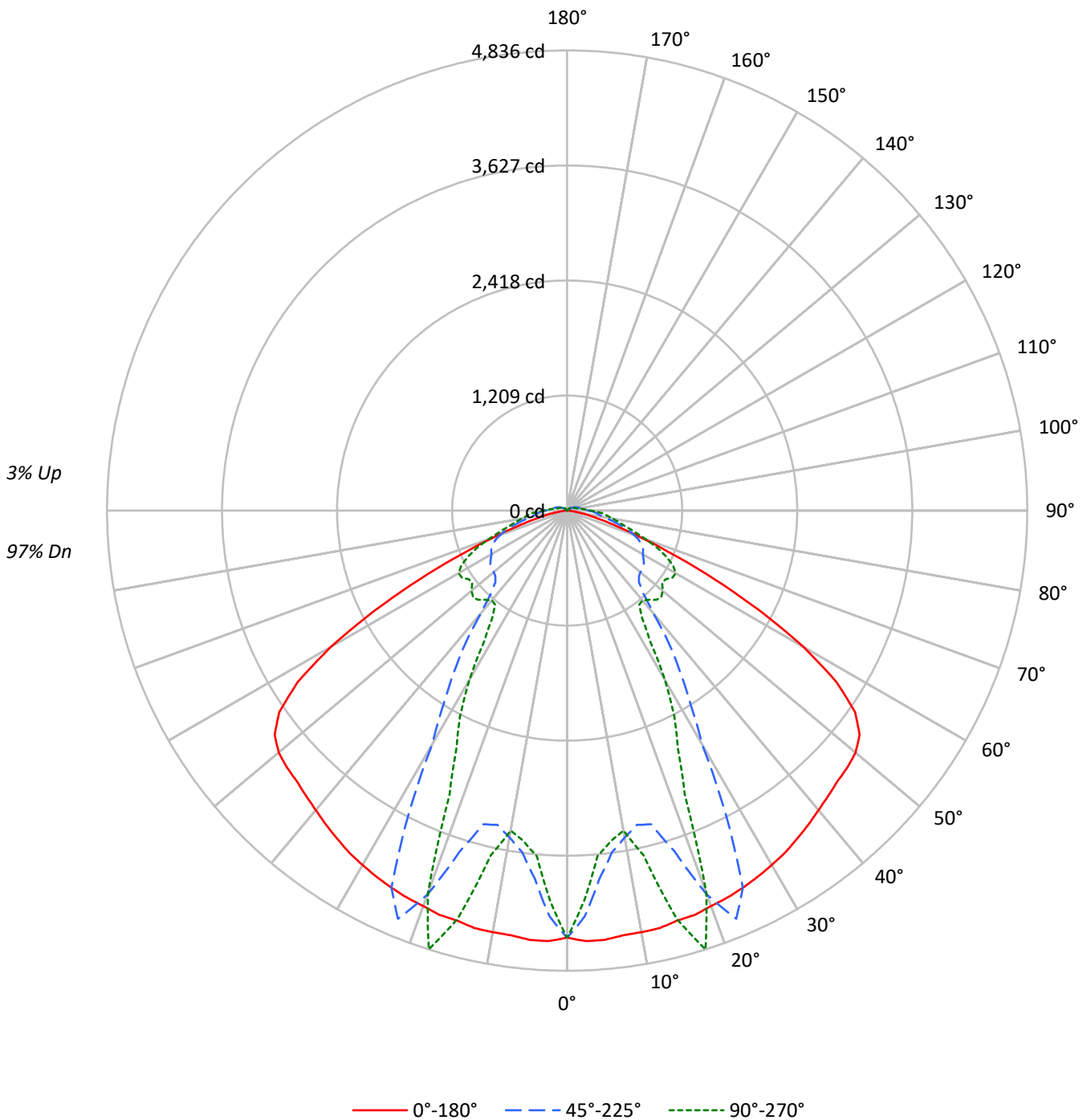
Lumens per Lamp: N/A  
Luminaire Lumens: 9437.8 lumens  
Efficiency: N/A  
Efficacy: 131.2 lumens/watt  
Spacing Criteria (0/90/45): 1.44 / 0.89 / 0.98  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 71.9151  
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	50	30	10	0		
RCR																										
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	99	99	99	99	97		
1	108	103	99	95	105	101	97	93	96	93	90	91	89	87	87	85	83	87	85	83	87	85	83	81		
2	99	91	84	79	96	89	83	78	85	80	75	81	77	73	77	74	71	77	74	71	77	74	71	69		
3	91	81	73	67	88	79	72	66	75	69	64	72	67	63	69	65	61	69	65	61	69	65	61	59		
4	84	72	64	57	81	71	63	57	68	61	56	65	59	54	62	57	53	62	57	53	62	57	53	51		
5	77	65	56	50	75	64	56	50	61	54	49	59	53	48	57	51	47	57	51	47	57	51	47	45		
6	72	59	50	44	70	58	50	44	56	49	43	54	47	43	52	46	42	52	46	42	52	46	42	40		
7	67	54	45	40	65	53	45	39	51	44	39	49	43	38	48	42	38	48	42	38	48	42	38	36		
8	62	49	41	36	61	49	41	35	47	40	35	46	39	35	44	38	34	44	38	34	44	38	34	32		
9	58	46	38	32	57	45	37	32	44	37	32	42	36	32	41	35	31	41	35	31	41	35	31	29		
10	55	42	35	30	54	42	34	30	40	34	29	39	33	29	38	33	29	38	33	29	38	33	29	27		

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

	0°	45°	90°
0°	144937	144937	144937
5°	146520	100803	87600
10°	146977	76158	65648
15°	148306	64745	71575
20°	150848	72559	59824
25°	154288	66935	34172
30°	158454	40085	23147
35°	163617	27301	14169
40°	170229	17560	11913
45°	179848	12701	12112
50°	193921	11512	11423
55°	201876	10965	10565
60°	178854	10008	10733
65°	125209	9419	9183
70°	72764	8008	6906
75°	41362	6049	4913
80°	23483	4270	3798
85°	11341	3428	3109



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	372.8	4.0
10°-20°	1119.9	11.9
20°-30°	1648.4	17.5
30°-40°	1610.3	17.1
40°-50°	1334.9	14.1
50°-60°	1225.6	13.0
60°-70°	971.2	10.3
70°-80°	539.2	5.7
80°-90°	285.6	3.0
90°-100°	150.2	1.6
100°-110°	90.4	1.0
110°-120°	51.6	0.5
120°-130°	28.5	0.3
130°-140°	9.0	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°	3141.1	33.3
0°-40°	4751.4	50.3
0°-60°	7311.9	77.5
0°-90°	9107.9	96.5
90°-120°	292.2	3.1
90°-150°	329.9	3.5
90°-180°	330.0	3.5
0°-180°	9437.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4488	4488	4488	4488	4488	
5°	4528	4274	3883	3718	3648	431
15°	4461	3563	3412	4178	4436	1265
25°	4372	3402	4369	2979	2748	2020
35°	4211	4060	2071	1480	1366	2643
45°	4020	1836	1069	1220	1326	3118
55°	3692	818	986	1181	1260	3207
65°	1712	531	875	1110	1151	1733
75°	357	324	563	601	627	424
85°	38	159	310	376	392	52
90°	1	116	227	248	246	2
95°	2	92	176	183	175	2
105°	2	61	123	106	96	2
115°	2	7	80	76	71	2
125°	2	2	37	59	58	2
135°	2	2	2	25	32	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°	4488.4	4488.4	4488.4	4488.4	4488.4
2.5°	4528.4	4447.3	4267.0	4144.7	4103.6
5°	4528.4	4274.4	3883.3	3717.8	3648.2
7.5°	4501.0	4055.1	3620.8	3549.2	3503.8
10°	4498.9	3821.1	3487.0	3426.9	3414.2
12.5°	4493.6	3691.5	3383.7	3596.6	3711.5
15°	4461.0	3562.9	3412.1	4178.5	4435.7
17.5°	4455.7	3466.9	3757.9	4727.6	4836.2
20°	4423.0	3391.0	4296.5	4658.1	4275.4
22.5°	4401.9	3338.3	4643.3	3747.3	3226.6
25°	4372.4	3401.6	4369.3	2978.9	2748.0
27.5°	4338.7	3605.0	3621.9	2593.1	2440.2
30°	4300.7	3923.4	2839.7	2266.3	2054.4
32.5°	4262.8	4156.3	2417.1	1860.5	1611.7
35°	4211.1	4060.4	2071.3	1480.0	1366.1
37.5°	4162.6	3617.7	1756.1	1277.6	1244.9
40°	4108.9	2914.6	1410.4	1197.5	1231.2
42.5°	4063.6	2310.6	1184.8	1189.0	1272.3
45°	4020.3	1836.2	1068.9	1219.6	1326.1
47.5°	3995.0	1459.9	1022.5	1256.5	1341.9
50°	3956.0	1170.1	1005.6	1263.9	1311.3
52.5°	3873.8	964.5	1000.3	1224.9	1257.5
55°	3692.5	818.0	985.6	1180.6	1259.7
57.5°	3358.4	727.3	951.9	1190.1	1311.3
60°	2869.3	656.7	918.1	1220.6	1317.6
62.5°	2283.2	592.4	900.2	1195.4	1255.4
65°	1711.9	531.3	874.9	1110.0	1151.1
67.5°	1198.5	478.6	818.0	1003.5	1025.6
70°	814.8	428.0	747.4	867.5	877.0
72.5°	548.1	377.4	659.9	727.3	742.1
75°	357.3	323.6	562.9	600.8	627.2
77.5°	227.7	275.1	467.0	515.5	549.2
80°	141.2	227.7	393.2	462.8	483.8
82.5°	79.1	189.7	340.5	413.2	424.8
85°	37.9	159.2	309.9	376.3	392.1
87.5°	9.5	134.9	273.0	312.0	312.0
90°	1.1	116.0	226.6	247.7	245.6
92.5°	1.1	102.2	197.1	210.8	206.6
95°	2.1	91.7	176.0	183.4	175.0
97.5°	2.1	86.4	162.3	157.1	144.4
100°	2.1	80.1	147.6	133.9	120.2
102.5°	2.1	71.7	134.9	118.1	106.5
105°	2.1	61.1	123.3	106.5	95.9
107.5°	2.1	48.5	110.7	97.0	88.5
110°	2.1	34.8	99.1	89.6	83.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.1	21.1	89.6	83.3	78.0
115°	2.1	7.4	80.1	75.9	70.6
117.5°	2.1	3.2	70.6	72.7	66.4
120°	2.1	3.2	59.0	68.5	63.2
122.5°	2.1	3.2	48.5	64.3	61.1
125°	2.1	2.1	36.9	59.0	58.0
127.5°	2.1	2.1	25.3	51.7	53.8
130°	2.1	2.1	12.6	42.2	47.4
132.5°	2.1	2.1	2.1	34.8	39.0
135°	2.1	2.1	2.1	25.3	31.6
137.5°	2.1	2.1	2.1	12.6	23.2
140°	2.1	2.1	2.1	2.1	9.5
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)