

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: P290294

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290294  
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: 4SSRK-SLC-80-L940-CD1-U  
Description: 8000 LUMEN, 4 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: 7574.6 lumens  
Efficiency: N/A  
Efficacy: 120.4 lumens/watt  
Spacing Criteria (0/90/45): 1.44 / 0.89 / 0.98  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')  
CIE Type: Direct

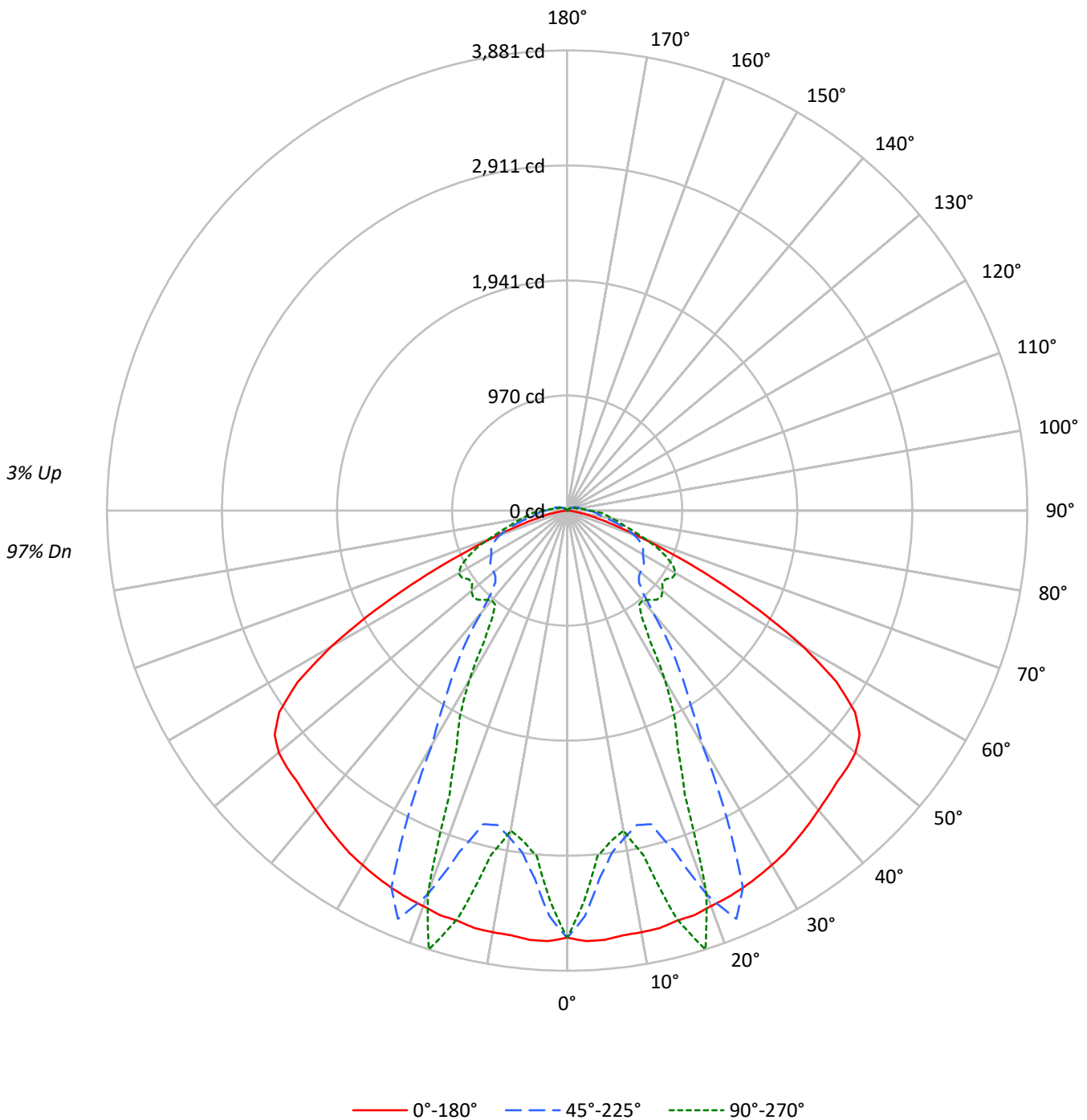
Input Watts (W): 62.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	104	104	104	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	81	
2	99	91	84	79	96	89	83	78	85	80	75	81	77	73	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	59	
4	84	72	64	57	81	71	63	57	68	61	56	65	59	54	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	45	
6	72	59	50	44	70	58	50	44	56	49	43	54	47	43	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	36	
8	62	49	41	36	61	49	41	35	47	40	35	46	39	35	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	29	
10	55	42	35	30	54	42	34	30	40	34	29	39	33	29	38	33	29	38	33	29	27	

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

	0°	45°	90°
0°	232647	232647	232647
5°	234761	161640	140613
10°	235060	122035	105377
15°	236740	103694	114889
20°	240325	116163	96028
25°	245298	107125	54852
30°	251360	64137	37156
35°	258914	43672	22743
40°	268628	28083	19122
45°	282911	20308	19441
50°	303911	18405	18335
55°	314940	17527	16959
60°	277422	15997	17229
65°	192733	15053	14739
70°	110808	12795	11086
75°	61934	9664	7886
80°	34114	6821	6097
85°	15310	5474	4991



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	299.2	4.0
10°-20°	898.8	11.9
20°-30°	1323.0	17.5
30°-40°	1292.4	17.1
40°-50°	1071.4	14.1
50°-60°	983.6	13.0
60°-70°	779.4	10.3
70°-80°	432.8	5.7
80°-90°	229.2	3.0
90°-100°	120.5	1.6
100°-110°	72.5	1.0
110°-120°	41.4	0.5
120°-130°	22.9	0.3
130°-140°	7.2	0.1
140°-150°	0.2	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2521.0	33.3
0°-40°	3813.3	50.3
0°-60°	5868.3	77.5
0°-90°	7309.8	96.5
90°-120°	234.5	3.1
90°-150°	264.8	3.5
90°-180°	265.0	3.5
0°-180°	7574.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3602	3602	3602	3602	3602	
5°	3634	3430	3117	2984	2928	346
15°	3580	2860	2738	3354	3560	1016
25°	3509	2730	3507	2391	2206	1622
35°	3380	3259	1662	1188	1096	2121
45°	3227	1474	858	979	1064	2502
55°	2964	656	791	948	1011	2574
65°	1374	426	702	891	924	1391
75°	287	260	452	482	503	340
85°	30	128	249	302	315	42
90°	1	93	182	199	197	1
95°	2	74	141	147	140	1
105°	2	49	99	85	77	2
115°	2	6	64	61	57	2
125°	2	2	30	47	46	2
135°	2	2	2	20	25	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°	3602.3	3602.3	3602.3	3602.3	3602.3
2.5°	3634.4	3569.3	3424.6	3326.5	3293.5
5°	3634.4	3430.5	3116.7	2983.8	2928.0
7.5°	3612.4	3254.6	2906.0	2848.5	2812.1
10°	3610.7	3066.8	2798.6	2750.3	2740.2
12.5°	3606.5	2962.7	2715.7	2886.6	2978.8
15°	3580.3	2859.5	2738.5	3353.5	3560.0
17.5°	3576.0	2782.5	3016.0	3794.3	3881.4
20°	3549.8	2721.6	3448.3	3738.5	3431.4
22.5°	3532.9	2679.3	3726.6	3007.5	2589.6
25°	3509.2	2730.0	3506.7	2390.8	2205.5
27.5°	3482.1	2893.3	2906.9	2081.2	1958.5
30°	3451.7	3148.8	2279.1	1818.9	1648.9
32.5°	3421.2	3335.8	1939.9	1493.2	1293.5
35°	3379.8	3258.8	1662.4	1187.8	1096.4
37.5°	3340.9	2903.5	1409.4	1025.4	999.1
40°	3297.7	2339.2	1131.9	961.1	988.1
42.5°	3261.3	1854.4	950.9	954.3	1021.1
45°	3226.6	1473.7	857.8	978.8	1064.3
47.5°	3206.3	1171.7	820.6	1008.4	1077.0
50°	3175.0	939.1	807.1	1014.4	1052.4
52.5°	3109.1	774.1	802.9	983.1	1009.3
55°	2963.5	656.5	791.0	947.5	1011.0
57.5°	2695.4	583.7	763.9	955.1	1052.4
60°	2302.8	527.1	736.9	979.7	1057.5
62.5°	1832.4	475.5	722.5	959.4	1007.6
65°	1373.9	426.4	702.2	890.8	923.8
67.5°	961.9	384.1	656.5	805.4	823.2
70°	654.0	343.5	599.8	696.3	703.9
72.5°	439.9	302.9	529.6	583.7	595.6
75°	286.8	259.7	451.8	482.2	503.4
77.5°	182.7	220.8	374.8	413.7	440.8
80°	113.4	182.7	315.6	371.4	388.3
82.5°	63.5	152.3	273.3	331.6	340.9
85°	30.5	127.7	248.7	302.0	314.7
87.5°	7.6	108.3	219.1	250.4	250.4
90°	0.8	93.1	181.9	198.8	197.1
92.5°	0.8	82.1	158.2	169.2	165.8
95°	1.7	73.6	141.3	147.2	140.4
97.5°	1.7	69.4	130.3	126.1	115.9
100°	1.7	64.3	118.4	107.4	96.4
102.5°	1.7	57.5	108.3	94.8	85.4
105°	1.7	49.1	99.0	85.4	77.0
107.5°	1.7	38.9	88.8	77.8	71.1
110°	1.7	27.9	79.5	71.9	66.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.7	16.9	71.9	66.8	62.6
115°	1.7	5.9	64.3	60.9	56.7
117.5°	1.7	2.5	56.7	58.4	53.3
120°	1.7	2.5	47.4	55.0	50.8
122.5°	1.7	2.5	38.9	51.6	49.1
125°	1.7	1.7	29.6	47.4	46.5
127.5°	1.7	1.7	20.3	41.5	43.1
130°	1.7	1.7	10.2	33.8	38.1
132.5°	1.7	1.7	1.7	27.9	31.3
135°	1.7	1.7	1.7	20.3	25.4
137.5°	1.7	1.7	1.7	10.2	18.6
140°	1.7	1.7	1.7	1.7	7.6
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)