

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: P290012

Luminaire Tested: **4SSRK-RB-40-L930-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290012  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-8)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4SSRK-RB-40-L930-CD1-U  
Description: 4000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH ROUND BATWING LENS AND 90 CRI 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

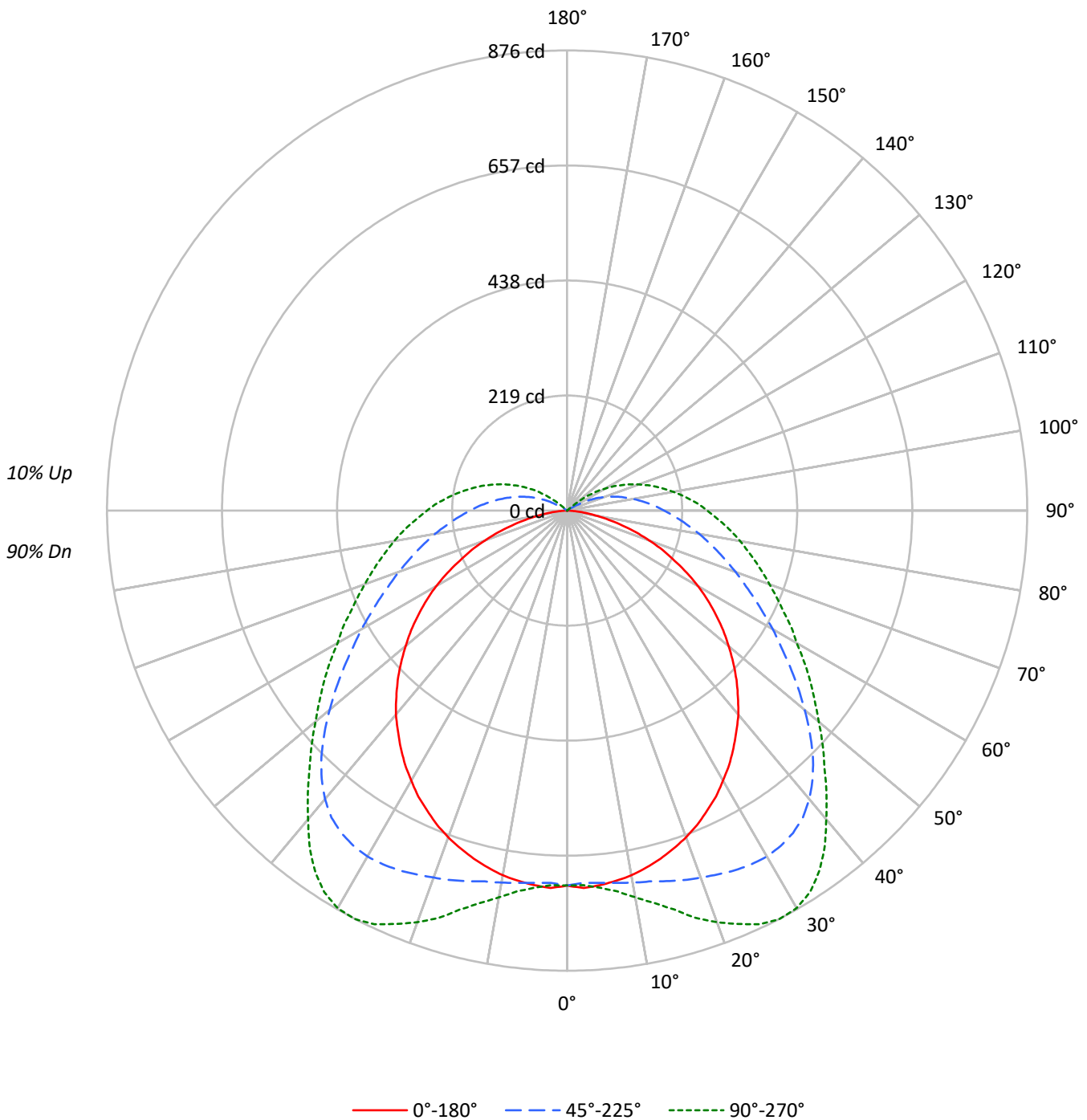
Lumens per Lamp: N/A  
Luminaire Lumens: 3170.1 lumens  
Efficiency: N/A  
Efficacy: 114.4 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.65 / 1.6  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 27.7  
Input Voltage (V): NR  
Input Current (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



TEST NUMBER: P290012

CATALOG NUMBER: 4SSRK-RB-40-L930-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P290012

CATALOG NUMBER: 4SSRK-RB-40-L930-CD1-U

**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	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	90				
1	104	98	93	88	100	95	90	86	89	85	81	83	80	77	78	75	73	70				
2	94	84	77	70	90	82	74	68	76	70	65	71	67	62	67	63	59	57				
3	85	73	64	57	81	71	63	56	66	60	54	62	56	52	58	54	49	47				
4	77	64	55	48	74	62	54	47	59	51	45	55	49	44	52	46	42	39				
5	71	57	48	41	68	56	47	40	52	45	39	49	43	37	46	41	36	34				
6	65	51	42	35	63	50	41	35	47	39	34	44	38	32	42	36	31	29				
7	60	46	37	31	58	45	36	30	43	35	29	40	34	29	38	32	28	25				
8	56	42	33	27	54	41	33	27	39	31	26	37	30	25	35	29	25	22				
9	52	38	30	24	50	37	29	24	36	28	23	34	27	23	32	26	22	20				
10	49	35	27	22	47	34	27	22	33	26	21	31	25	20	30	24	20	18				

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

	0°	45°	90°
0°	46099	46099	46099
5°	46230	36900	34611
10°	45896	31361	28754
15°	45367	27657	25369
20°	44811	25043	23334
25°	44066	23086	21605
30°	43220	21396	19688
35°	42287	19693	17366
40°	41300	17797	14849
45°	39974	15670	12661
50°	38412	13464	10896
55°	36685	11474	9472
60°	34684	9814	8223
65°	31605	8405	7250
70°	28261	7274	6454
75°	23495	6323	5800
80°	17117	5509	5251
85°	8684	4790	4749



TEST NUMBER: P290012

CATALOG NUMBER: 4SSRK-RB-40-L930-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.6	2.2
10°-20°	208.8	6.6
20°-30°	347.6	11.0
30°-40°	449.6	14.2
40°-50°	474.9	15.0
50°-60°	437.8	13.8
60°-70°	367.9	11.6
70°-80°	288.3	9.1
80°-90°	212.1	6.7
90°-100°	151.1	4.8
100°-110°	97.1	3.1
110°-120°	51.0	1.6
120°-130°	14.8	0.5
130°-140°	0.4	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°	625.1	19.7
0°-40°	1074.7	33.9
0°-60°	1987.4	62.7
0°-90°	2855.7	90.1
90°-120°	299.2	9.4
90°-150°	314.3	9.9
90°-180°	314.0	9.9
0°-180°	3170.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	714	714	714	714	714	
5°	716	715	712	721	721	68
15°	686	700	730	774	786	194
25°	630	666	756	842	869	291
35°	552	614	750	826	837	345
45°	456	537	662	690	693	351
55°	345	429	518	553	565	309
65°	225	308	392	440	454	224
75°	109	201	296	352	370	116
85°	17	117	218	280	299	23
90°	0	86	184	247	267	1
95°	1	62	155	217	236	1
105°	1	20	101	157	176	1
115°	1	1	48	98	115	1
125°	1	0	0	35	52	1
135°	0	0	0	0	0	0
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



TEST NUMBER: P290012

CATALOG NUMBER: 4SSRK-RB-40-L930-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	713.8	713.8	713.8	713.8	713.8
2.5°	719.2	716.1	709.2	715.4	713.8
5°	715.7	715.4	711.5	720.7	720.7
7.5°	711.1	712.7	714.6	730.0	731.1
10°	705.0	709.6	719.2	742.7	747.7
12.5°	696.1	704.6	723.1	756.9	764.9
15°	686.1	699.6	730.4	773.8	786.1
17.5°	674.6	692.3	737.7	794.5	813.0
20°	661.9	685.0	743.4	813.4	833.8
22.5°	647.3	676.2	749.6	828.8	851.8
25°	630.4	665.8	755.7	842.2	868.7
27.5°	613.5	655.0	759.2	850.7	876.4
30°	593.5	643.1	760.3	851.8	873.7
32.5°	573.9	630.0	756.9	843.8	861.0
35°	552.0	613.5	749.6	826.1	837.2
37.5°	529.3	595.8	736.9	798.8	805.7
40°	507.0	579.3	717.3	764.2	767.3
42.5°	481.3	558.1	691.9	727.7	730.7
45°	455.9	537.0	661.9	690.4	693.1
47.5°	429.0	512.8	626.6	653.1	659.6
50°	401.3	486.3	590.4	618.5	625.4
52.5°	374.4	459.0	553.9	585.8	593.9
55°	345.2	429.0	517.8	553.1	564.7
57.5°	317.1	399.4	482.8	522.0	534.7
60°	287.9	369.0	452.1	493.2	504.7
62.5°	257.2	338.3	420.5	466.7	481.3
65°	225.3	308.3	392.1	440.1	454.4
67.5°	197.2	279.5	364.8	415.5	431.7
70°	166.8	251.8	341.0	393.6	409.8
72.5°	137.2	226.0	317.1	372.5	389.8
75°	108.8	200.7	295.6	351.7	370.2
77.5°	81.1	177.2	274.5	332.9	351.3
80°	56.9	155.7	254.9	314.8	334.4
82.5°	35.4	136.5	235.6	297.1	317.1
85°	17.3	117.2	217.6	279.5	299.4
87.5°	5.0	100.3	200.7	262.5	282.1
90°	0.4	86.1	184.5	247.2	266.8
92.5°	0.8	73.4	170.7	231.8	252.5
95°	1.2	62.3	155.3	216.8	236.0
97.5°	1.2	51.5	141.1	201.8	220.6
100°	1.2	41.1	127.2	186.0	205.3
102.5°	1.2	31.1	113.8	171.4	189.9
105°	1.2	20.4	101.1	157.2	175.7
107.5°	1.2	8.8	87.6	141.8	160.3
110°	1.2	1.9	74.6	127.6	145.7



TEST NUMBER: P290012

CATALOG NUMBER: 4SSRK-RB-40-L930-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.2	1.2	62.3	112.6	130.7
115°	0.8	1.2	48.4	97.6	114.6
117.5°	0.8	0.8	33.1	83.0	100.3
120°	0.8	0.8	17.3	68.4	84.2
122.5°	0.8	0.4	3.5	52.3	69.6
125°	0.8	0.4	0.0	35.0	51.9
127.5°	0.8	0.4	0.0	18.1	35.4
130°	0.4	0.4	0.0	2.7	16.9
132.5°	0.4	0.4	0.0	0.0	0.8
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)