

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: P290019

Luminaire Tested: **4SSRK-RB-40-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290019
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-L850-CD1-U
Description: 4000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH ROUND BATWING LENS AND 80 CRI 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4073.8 lumens
Efficiency: N/A
Efficacy: 147.1 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

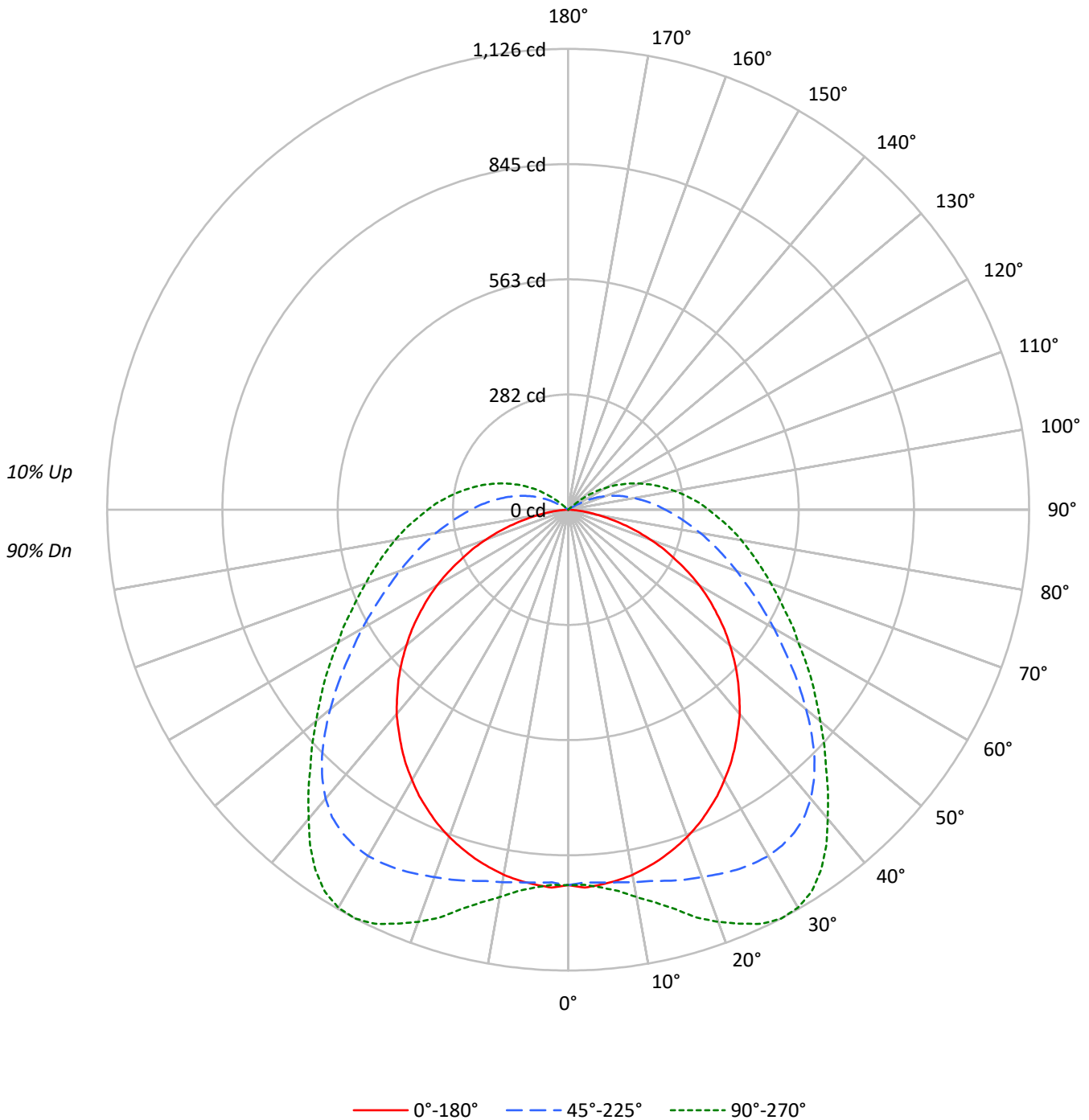
Input Watts (W): 27.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P290019

CATALOG NUMBER: 4SSRK-RB-40-L850-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P290019

CATALOG NUMBER: 4SSRK-RB-40-L850-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	50	30	10	0		
RCR																										
0	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	90					90			
1	104	98	93	88	100	95	90	86	89	85	81	83	80	77	78	75	73	70					70			
2	94	84	77	70	90	82	74	68	76	70	65	71	67	62	67	63	59	57					57			
3	85	73	64	57	81	71	63	56	66	60	54	62	56	52	58	54	49	47					47			
4	77	64	55	48	74	62	54	47	59	51	45	55	49	44	52	46	42	39					39			
5	71	57	48	41	68	56	47	40	52	45	39	49	43	37	46	41	36	34					34			
6	65	51	42	35	63	50	41	35	47	39	34	44	38	32	42	36	31	29					29			
7	60	46	37	31	58	45	36	30	43	35	29	40	34	29	38	32	28	25					25			
8	56	42	33	27	54	41	33	27	39	31	26	37	30	25	35	29	25	22					22			
9	52	38	30	24	50	37	29	24	36	28	23	34	27	23	32	26	22	20					20			
10	49	35	27	22	47	34	27	22	33	26	21	31	25	20	30	24	20	18					18			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	59242	59242	59242
5°	59414	47423	44480
10°	58981	40300	36949
15°	58307	35540	32601
20°	57587	32185	29986
25°	56627	29669	27765
30°	55541	27497	25301
35°	54344	25307	22318
40°	53079	22870	19082
45°	51372	20138	16270
50°	49363	17304	14002
55°	47143	14744	12173
60°	44575	12611	10567
65°	40612	10802	9316
70°	36326	9348	8293
75°	30190	8126	7452
80°	21991	7078	6749
85°	11143	6154	6103



TEST NUMBER: P290019

CATALOG NUMBER: 4SSRK-RB-40-L850-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.2	2.2
10°-20°	268.4	6.6
20°-30°	446.7	11.0
30°-40°	577.8	14.2
40°-50°	610.3	15.0
50°-60°	562.6	13.8
60°-70°	472.8	11.6
70°-80°	370.5	9.1
80°-90°	272.5	6.7
90°-100°	194.2	4.8
100°-110°	124.8	3.1
110°-120°	65.5	1.6
120°-130°	19.0	0.5
130°-140°	0.5	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°	803.3	19.7
0°-40°	1381.1	33.9
0°-60°	2554.0	62.7
0°-90°	3669.8	90.1
90°-120°	384.4	9.4
90°-150°	403.9	9.9
90°-180°	404.0	9.9
0°-180°	4073.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	917	917	917	917	917	
5°	920	919	914	926	926	87
15°	882	899	939	994	1010	249
25°	810	856	971	1082	1116	373
35°	709	788	963	1062	1076	444
45°	586	690	851	887	891	451
55°	444	551	665	711	726	397
65°	290	396	504	566	584	288
75°	140	258	380	452	476	149
85°	22	151	280	359	385	29
90°	0	111	237	318	343	1
95°	2	80	200	279	303	1
105°	2	26	130	202	226	2
115°	1	2	62	126	147	1
125°	1	0	0	45	67	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: P290019

CATALOG NUMBER: 4SSRK-RB-40-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	917.3	917.3	917.3	917.3	917.3
2.5°	924.2	920.3	911.4	919.3	917.3
5°	919.8	919.3	914.4	926.2	926.2
7.5°	913.9	915.8	918.3	938.1	939.6
10°	906.0	911.9	924.2	954.4	960.8
12.5°	894.6	905.5	929.2	972.7	983.0
15°	881.8	899.1	938.6	994.4	1010.2
17.5°	866.9	889.7	948.0	1021.1	1044.8
20°	850.6	880.3	955.4	1045.3	1071.5
22.5°	831.9	868.9	963.3	1065.0	1094.7
25°	810.1	855.6	971.2	1082.3	1116.4
27.5°	788.4	841.8	975.6	1093.2	1126.3
30°	762.7	826.4	977.1	1094.7	1122.8
32.5°	737.5	809.6	972.7	1084.3	1106.5
35°	709.4	788.4	963.3	1061.6	1075.9
37.5°	680.2	765.7	947.0	1026.5	1035.4
40°	651.6	744.4	921.8	982.0	986.0
42.5°	618.5	717.3	889.2	935.1	939.1
45°	585.9	690.1	850.6	887.2	890.7
47.5°	551.3	659.0	805.2	839.3	847.7
50°	515.7	624.9	758.8	794.8	803.7
52.5°	481.1	589.8	711.8	752.8	763.2
55°	443.6	551.3	665.4	710.8	725.7
57.5°	407.5	513.3	620.4	670.8	687.1
60°	370.0	474.2	580.9	633.8	648.6
62.5°	330.5	434.7	540.4	599.7	618.5
65°	289.5	396.2	503.9	565.6	583.9
67.5°	253.4	359.1	468.8	534.0	554.7
70°	214.4	323.6	438.2	505.8	526.6
72.5°	176.4	290.5	407.5	478.7	500.9
75°	139.8	257.9	379.9	452.0	475.7
77.5°	104.2	227.7	352.7	427.8	451.5
80°	73.1	200.1	327.5	404.6	429.8
82.5°	45.4	175.4	302.8	381.9	407.5
85°	22.2	150.7	279.6	359.1	384.8
87.5°	6.4	128.9	257.9	337.4	362.6
90°	0.5	110.7	237.1	317.6	342.8
92.5°	1.0	94.4	219.3	297.9	324.5
95°	1.5	80.0	199.6	278.6	303.3
97.5°	1.5	66.2	181.3	259.3	283.5
100°	1.5	52.9	163.5	239.1	263.8
102.5°	1.5	40.0	146.2	220.3	244.0
105°	1.5	26.2	129.9	202.0	225.8
107.5°	1.5	11.4	112.6	182.3	206.0
110°	1.5	2.5	95.8	164.0	187.2



TEST NUMBER: P290019

CATALOG NUMBER: 4SSRK-RB-40-L850-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.5	1.5	80.0	144.7	168.0
115°	1.0	1.5	62.2	125.5	147.2
117.5°	1.0	1.0	42.5	106.7	128.9
120°	1.0	1.0	22.2	87.9	108.2
122.5°	1.0	0.5	4.4	67.2	89.4
125°	1.0	0.5	0.0	45.0	66.7
127.5°	1.0	0.5	0.0	23.2	45.4
130°	0.5	0.5	0.0	3.5	21.7
132.5°	0.5	0.5	0.0	0.0	1.0
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)