

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: P#

Luminaire Tested: **8RSRK-100-HE-L835**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1811-041-2)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8RSRK-100-HE-L835  
Description: 8ft RSRK, 1000 LUMEN PER FOOT 80CRI 3500K CCT WITH NO LENS  
Light Source: -  
Ballast/Driver: -

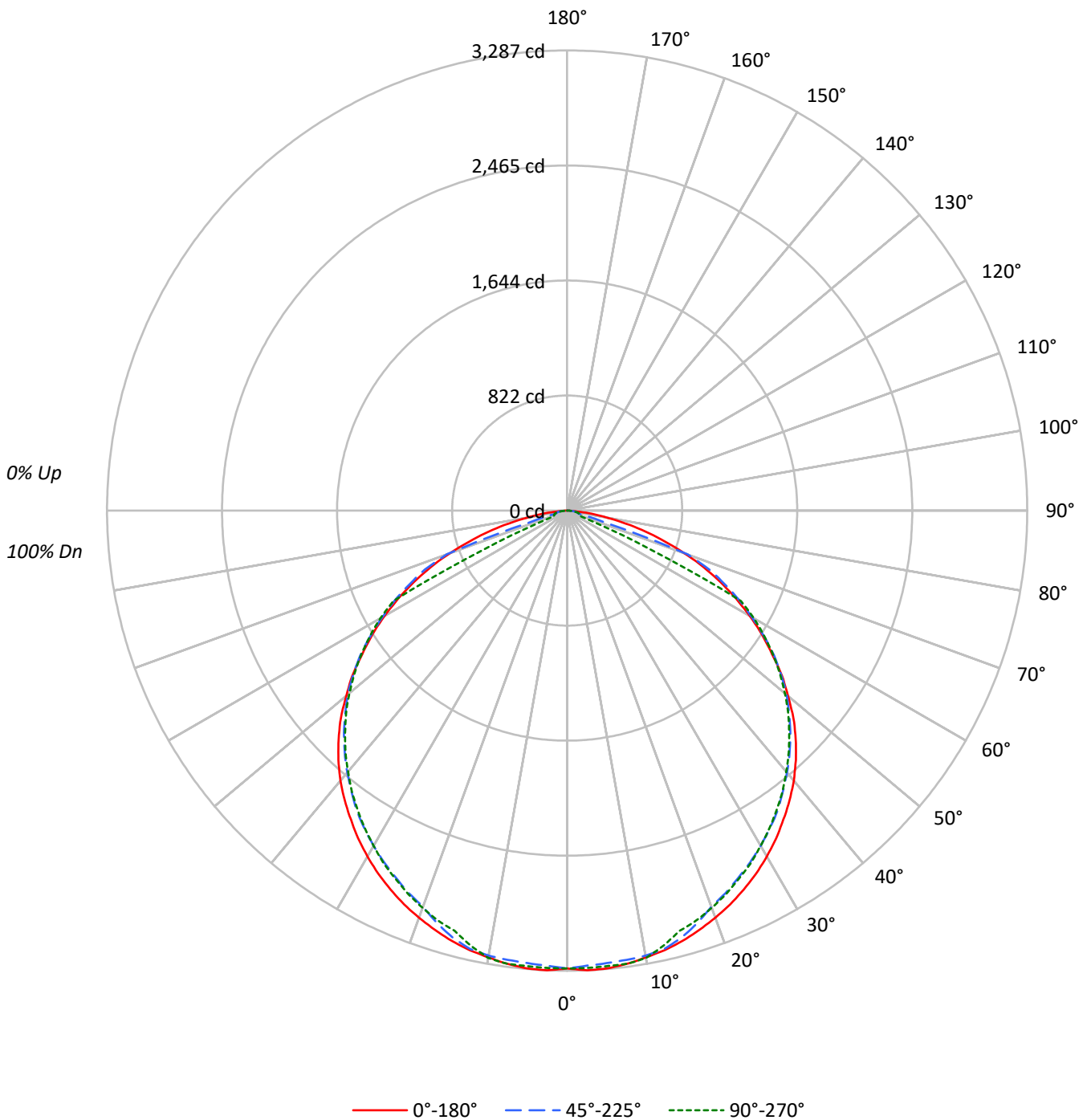
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9003.0 lumens  
Efficiency: N/A  
Efficacy: 312.6 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.26 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 8' x H: 0')  
CIE Type: Direct

Input Watts (W): 28.8  
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: P#  
CATALOG NUMBER: 8RSRK-100-HE-L835

### Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 8RSRK-100-HE-L835

**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	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	110	105	102	98	107	103	100	96	99	96	93		95	93	91		92	90	88	86
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81	78	74	72
3	92	81	74	67	89	80	73	67	77	71	66		74	69	65		72	67	63	61
4	84	72	64	57	82	71	63	57	68	62	56		66	60	55		64	59	55	52
5	77	65	56	49	75	63	55	49	61	54	48		59	53	48		58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42		54	47	42		52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	37		49	42	37		47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33		45	38	33		43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30		41	35	30		40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27		38	32	27		37	31	27	25

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

	0°	45°	90°
0°	4400	4400	4400
5°	4434	4383	4411
10°	4428	4411	4434
15°	4433	4398	4328
20°	4431	4312	4324
25°	4433	4297	4309
30°	4432	4296	4296
35°	4425	4301	4288
40°	4424	4291	4277
45°	4395	4292	4268
50°	4310	4284	4249
55°	4193	4233	4213
60°	4057	4102	4147
65°	3843	3949	2088
70°	3516	3598	394
75°	3018	434	478
80°	2266	550	550
85°	1161	579	516



TEST NUMBER: P#

CATALOG NUMBER: 8RSRK-100-HE-L835

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	310.7	3.5
10°-20°	890.0	9.9
20°-30°	1353.0	15.0
30°-40°	1648.2	18.3
40°-50°	1744.0	19.4
50°-60°	1599.7	17.8
60°-70°	1079.0	12.0
70°-80°	326.1	3.6
80°-90°	52.2	0.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	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°	2553.8	28.4
0°-40°	4202.0	46.7
0°-60°	7545.7	83.8
0°-90°	9003.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9003.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3270	3270	3270	3270	3270	
5°	3283	3258	3245	3274	3266	312
15°	3183	3166	3158	3132	3107	898
25°	2986	2982	2894	2924	2903	1377
35°	2694	2636	2619	2627	2610	1687
45°	2310	2255	2255	2260	2243	1778
55°	1788	1762	1804	1804	1796	1600
65°	1207	1190	1240	1257	656	1192
75°	581	585	84	92	92	615
85°	75	38	38	33	33	115
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 8RSRK-100-HE-L835

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3270.3	3270.3	3270.3	3270.3	3270.3
2.5°	3287.1	3261.9	3253.6	3274.5	3270.3
5°	3282.8	3257.8	3245.2	3274.5	3266.1
7.5°	3266.1	3241.1	3236.9	3270.3	3266.1
10°	3241.1	3224.4	3228.5	3257.8	3245.2
12.5°	3216.0	3199.3	3207.6	3199.3	3182.6
15°	3182.6	3165.9	3157.5	3132.5	3107.4
17.5°	3140.8	3132.5	3090.7	3082.3	3069.9
20°	3094.8	3094.8	3011.3	3036.5	3019.7
22.5°	3044.7	3044.7	2957.0	2982.1	2965.4
25°	2986.3	2982.1	2894.4	2923.6	2902.8
27.5°	2923.6	2902.8	2831.8	2856.8	2840.1
30°	2852.7	2815.0	2764.9	2781.6	2764.9
32.5°	2777.4	2723.2	2693.9	2706.5	2689.7
35°	2693.9	2635.5	2618.8	2627.0	2610.3
37.5°	2610.3	2547.7	2531.0	2543.5	2526.8
40°	2518.6	2460.0	2443.3	2451.7	2435.0
42.5°	2418.3	2368.2	2351.5	2355.6	2343.0
45°	2309.6	2255.4	2255.4	2259.5	2242.8
47.5°	2192.7	2146.8	2151.0	2155.1	2142.6
50°	2059.0	2025.6	2046.5	2050.8	2029.8
52.5°	1933.8	1900.4	1925.4	1933.8	1917.1
55°	1787.6	1762.5	1804.3	1804.3	1795.9
57.5°	1649.8	1624.7	1666.5	1683.2	1670.6
60°	1507.7	1482.8	1524.4	1553.7	1541.1
62.5°	1357.4	1336.5	1386.6	1424.2	1399.2
65°	1207.0	1190.3	1240.4	1257.1	655.7
67.5°	1052.5	1039.9	1098.5	396.8	104.4
70°	893.8	881.3	914.7	100.2	100.2
72.5°	731.0	735.1	292.4	96.1	96.1
75°	580.6	584.7	83.5	91.9	91.9
77.5°	430.2	438.5	79.4	83.5	83.5
80°	292.4	213.1	71.0	71.0	71.0
82.5°	175.4	50.1	54.2	54.2	50.1
85°	75.2	37.5	37.5	33.4	33.4
87.5°	25.1	16.7	16.7	12.6	12.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)