

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: **4RSRK-200-HE-L850**

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: 4RSRK-200-HE-L850  
Description: 4ft RSRK, 2000 LUMEN PER FOOT 80CRI 5000K CCT WITH NO LENS  
Light Source: -  
Ballast/Driver: -

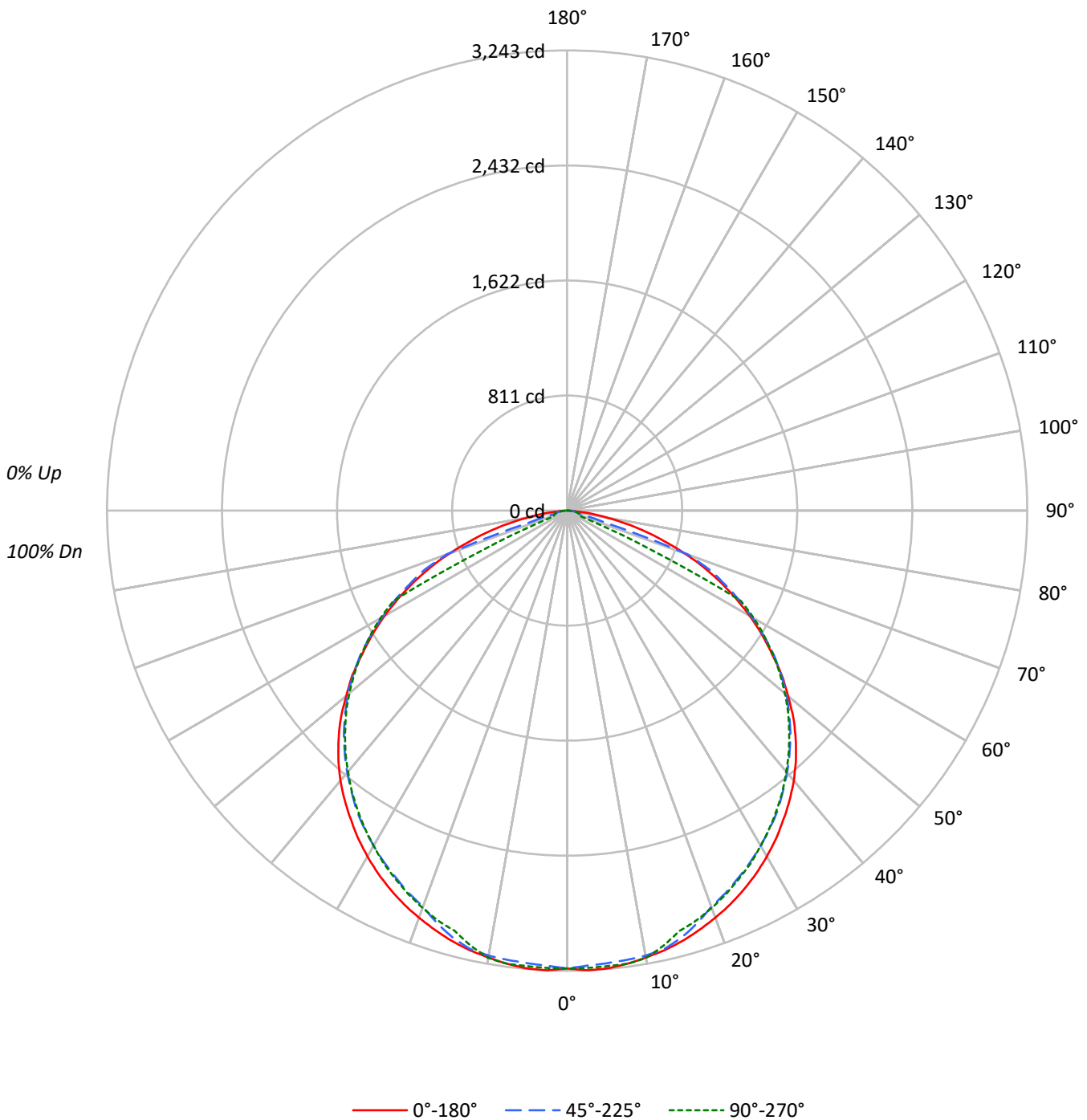
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8882.8 lumens  
Efficiency: N/A  
Efficacy: 145.1 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.26 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 61.2  
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	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°	8683	8683	8683
5°	8749	8649	8705
10°	8738	8704	8749
15°	8748	8679	8541
20°	8744	8508	8532
25°	8749	8479	8504
30°	8746	8477	8477
35°	8731	8488	8461
40°	8729	8468	8440
45°	8672	8469	8421
50°	8505	8453	8384
55°	8275	8352	8313
60°	8006	8095	8184
65°	7583	7793	4119
70°	6939	7101	778
75°	5957	857	943
80°	4471	1085	1085
85°	2291	1142	1019



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	306.5	3.5
10°-20°	878.2	9.9
20°-30°	1335.0	15.0
30°-40°	1626.2	18.3
40°-50°	1720.8	19.4
50°-60°	1578.4	17.8
60°-70°	1064.6	12.0
70°-80°	321.8	3.6
80°-90°	51.5	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°	2519.7	28.4
0°-40°	4145.9	46.7
0°-60°	7445.0	83.8
0°-90°	8882.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8882.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3227	3227	3227	3227	3227	
5°	3239	3214	3202	3231	3222	308
15°	3140	3124	3115	3091	3066	886
25°	2946	2942	2856	2885	2864	1359
35°	2658	2600	2584	2592	2576	1664
45°	2279	2225	2225	2229	2213	1754
55°	1764	1739	1780	1780	1772	1579
65°	1191	1174	1224	1240	647	1176
75°	573	577	82	91	91	607
85°	74	37	37	33	33	113
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3226.7	3226.7	3226.7	3226.7	3226.7
2.5°	3243.2	3218.4	3210.2	3230.8	3226.7
5°	3239.0	3214.3	3201.9	3230.8	3222.5
7.5°	3222.5	3197.8	3193.7	3226.7	3222.5
10°	3197.8	3181.3	3185.4	3214.3	3201.9
12.5°	3173.1	3156.6	3164.8	3156.6	3140.1
15°	3140.1	3123.6	3115.4	3090.7	3065.9
17.5°	3098.9	3090.7	3049.4	3041.2	3028.9
20°	3053.5	3053.5	2971.1	2995.9	2979.4
22.5°	3004.1	3004.1	2917.6	2942.3	2925.8
25°	2946.5	2942.3	2855.7	2884.6	2864.1
27.5°	2884.6	2864.1	2794.0	2818.7	2802.2
30°	2814.6	2777.5	2728.0	2744.5	2728.0
32.5°	2740.3	2686.8	2657.9	2670.3	2653.8
35°	2657.9	2600.3	2583.8	2592.0	2575.5
37.5°	2575.5	2513.7	2497.3	2509.6	2493.1
40°	2484.9	2427.1	2410.7	2419.0	2402.5
42.5°	2386.0	2336.6	2320.1	2324.2	2311.8
45°	2278.8	2225.3	2225.3	2229.3	2212.9
47.5°	2163.4	2118.1	2122.3	2126.4	2114.0
50°	2031.5	1998.6	2019.2	2023.4	2002.7
52.5°	1908.0	1875.0	1899.7	1908.0	1891.5
55°	1763.7	1739.0	1780.2	1780.2	1772.0
57.5°	1627.8	1603.0	1644.3	1660.8	1648.4
60°	1487.6	1463.0	1504.1	1533.0	1520.6
62.5°	1339.2	1318.7	1368.1	1405.2	1380.5
65°	1190.9	1174.4	1223.9	1240.3	646.9
67.5°	1038.5	1026.0	1083.8	391.5	103.0
70°	881.9	869.6	902.5	98.9	98.9
72.5°	721.2	725.3	288.5	94.8	94.8
75°	572.9	576.9	82.4	90.7	90.7
77.5°	424.5	432.6	78.3	82.4	82.4
80°	288.5	210.2	70.0	70.0	70.0
82.5°	173.1	49.5	53.5	53.5	49.5
85°	74.2	37.0	37.0	33.0	33.0
87.5°	24.7	16.5	16.5	12.4	12.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)