

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-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: 8RSRK-200-HE-L850
Description: 8ft RSRK, 2000 LUMEN PER FOOT 80CRI 5000K CCT WITH NO LENS
Light Source: -
Ballast/Driver: -

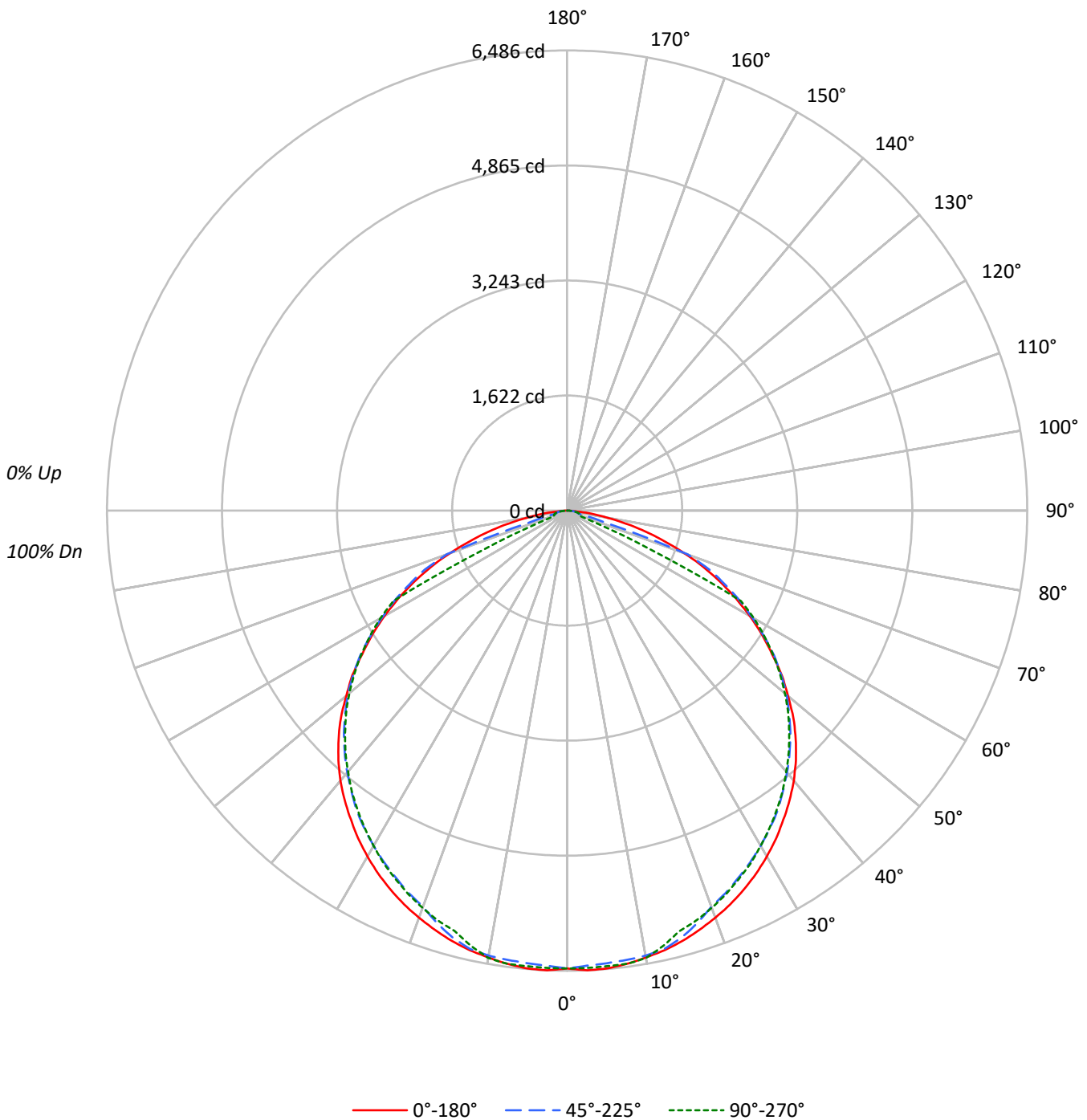
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17765.6 lumens
Efficiency: N/A
Efficacy: 290.3 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): 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

TEST NUMBER: P#
CATALOG NUMBER: 8RSRK-200-HE-L850

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 8RSRK-200-HE-L850

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	8468	8421
50°	8505	8453	8384
55°	8275	8352	8313
60°	8006	8095	8184
65°	7583	7793	4119
70°	6938	7101	778
75°	5956	857	943
80°	4470	1085	1085
85°	2291	1144	1017



TEST NUMBER: P#

CATALOG NUMBER: 8RSRK-200-HE-L850

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	613.1	3.5
10°-20°	1756.3	9.9
20°-30°	2670.0	15.0
30°-40°	3252.3	18.3
40°-50°	3441.5	19.4
50°-60°	3156.7	17.8
60°-70°	2129.2	12.0
70°-80°	643.5	3.6
80°-90°	102.9	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°	5039.4	28.4
0°-40°	8291.8	46.7
0°-60°	14890.0	83.8
0°-90°	17765.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17765.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6453	6453	6453	6453	6453	
5°	6478	6429	6404	6462	6445	615
15°	6280	6247	6231	6181	6132	1773
25°	5893	5885	5711	5769	5728	2717
35°	5316	5201	5168	5184	5151	3329
45°	4558	4450	4450	4459	4426	3509
55°	3528	3478	3560	3560	3544	3157
65°	2382	2349	2448	2481	1294	2351
75°	1146	1154	165	181	181	1214
85°	148	74	74	66	66	226
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 8RSRK-200-HE-L850

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6453.4	6453.4	6453.4	6453.4	6453.4
2.5°	6486.4	6436.7	6420.4	6461.5	6453.4
5°	6478.0	6428.6	6403.7	6461.5	6445.1
7.5°	6445.1	6395.6	6387.5	6453.4	6445.1
10°	6395.6	6362.6	6370.8	6428.6	6403.7
12.5°	6346.1	6313.2	6329.7	6313.2	6280.2
15°	6280.2	6247.2	6230.8	6181.3	6131.9
17.5°	6197.8	6181.3	6098.9	6082.4	6057.8
20°	6107.0	6107.0	5942.2	5991.9	5958.9
22.5°	6008.1	6008.1	5835.2	5884.6	5851.6
25°	5893.0	5884.6	5711.4	5769.2	5728.1
27.5°	5769.2	5728.1	5587.9	5637.4	5604.4
30°	5629.2	5554.9	5456.0	5489.0	5456.0
32.5°	5480.7	5373.6	5315.8	5340.7	5307.7
35°	5315.8	5200.6	5167.7	5184.0	5151.0
37.5°	5151.0	5027.5	4994.5	5019.1	4986.2
40°	4969.9	4854.3	4821.3	4838.0	4805.0
42.5°	4772.1	4673.2	4640.2	4648.3	4623.5
45°	4557.6	4450.5	4450.5	4458.7	4425.7
47.5°	4326.8	4236.3	4244.6	4252.7	4227.9
50°	4063.1	3997.2	4038.5	4046.8	4005.5
52.5°	3816.0	3750.1	3799.4	3816.0	3783.1
55°	3527.5	3478.0	3560.4	3560.4	3544.0
57.5°	3255.6	3205.9	3288.6	3321.5	3296.7
60°	2975.2	2925.9	3008.1	3065.9	3041.1
62.5°	2678.5	2637.4	2736.3	2810.3	2761.1
65°	2381.8	2348.8	2447.7	2480.7	1293.9
67.5°	2076.9	2052.1	2167.7	783.1	205.9
70°	1763.7	1739.1	1805.0	197.8	197.8
72.5°	1442.4	1450.5	576.9	189.7	189.7
75°	1145.7	1153.8	164.8	181.3	181.3
77.5°	849.0	865.3	156.7	164.8	164.8
80°	576.9	420.4	140.0	140.0	140.0
82.5°	346.2	98.9	107.0	107.0	98.9
85°	148.4	74.1	74.1	65.9	65.9
87.5°	49.5	33.0	33.0	24.8	24.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)