

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: P289567

Luminaire Tested: **8RSRK-RM-65-HE-L850**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P289567
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1810-975-8)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8RSRK-RM-65-HE-L850
Description: 8ft RSRK, 650 LUMEN PER FOOT 80CRI 5000K CCT WITH ROUND MEDIUM LENS
Light Source: -
Ballast/Driver: -

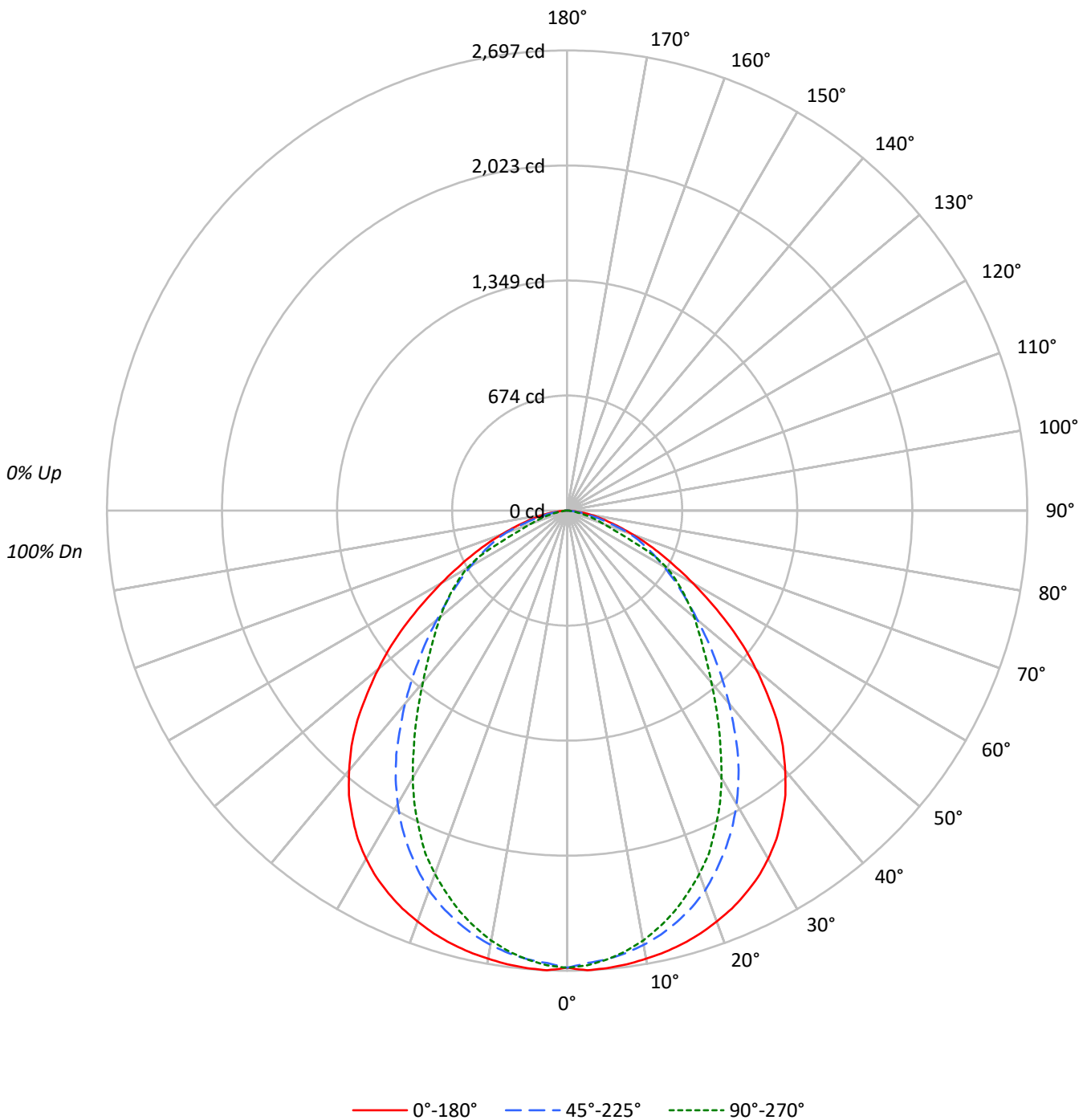
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5687.5 lumens
Efficiency: N/A
Efficacy: 300.9 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.05 / 1.18
Luminous Opening: Rectangular (W 1' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 18.9
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: P289567
CATALOG NUMBER: 8RSRK-RM-65-HE-L850

Luminous Intensity Polar Plot





TEST NUMBER: P289567

CATALOG NUMBER: 8RSRK-RM-65-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	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					100			
1	110	106	102	99	108	104	101	97	100	97	94	96	94	92	92	91	89					87				
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77					75				
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66					64				
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58					56				
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51					49				
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46					44				
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	45	41					39				
8	64	52	44	38	63	51	43	38	50	43	38	48	42	37	47	42	37					35				
9	60	48	40	34	59	47	39	34	46	39	34	45	39	34	44	38	34					32				
10	57	44	37	32	55	44	36	31	43	36	31	42	36	31	41	35	31					29				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3605	3605	3605
5°	3635	3567	3569
10°	3644	3532	3496
15°	3660	3474	3388
20°	3669	3391	3244
25°	3676	3254	3051
30°	3661	3087	2812
35°	3603	2868	2545
40°	3491	2595	2309
45°	3308	2327	2136
50°	3023	2086	2035
55°	2684	1906	1937
60°	2289	1756	1827
65°	1933	1644	1305
70°	1598	1496	885
75°	1294	1100	693
80°	1075	785	427
85°	741	329	289



TEST NUMBER: P289567

CATALOG NUMBER: 8RSRK-RM-65-HE-L850

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.1	4.4
10°-20°	708.4	12.5
20°-30°	1026.0	18.0
30°-40°	1126.1	19.8
40°-50°	1017.4	17.9
50°-60°	793.3	13.9
60°-70°	502.2	8.8
70°-80°	219.9	3.9
80°-90°	42.2	0.7
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°	1986.4	34.9
0°-40°	3112.5	54.7
0°-60°	4923.3	86.6
0°-90°	5687.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5687.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2679	2679	2679	2679	2679	
5°	2692	2674	2641	2655	2643	256
15°	2628	2579	2494	2464	2432	742
25°	2476	2368	2192	2109	2055	1141
35°	2194	1997	1746	1606	1549	1370
45°	1739	1463	1223	1150	1123	1333
55°	1144	917	812	824	826	1022
65°	607	505	516	494	410	608
75°	249	256	212	152	133	272
85°	48	45	21	20	19	62
90°	0	0	0	0	0	



TEST NUMBER: P289567

CATALOG NUMBER: 8RSRK-RM-65-HE-L850

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2679.1	2679.1	2679.1	2679.1	2679.1
2.5°	2696.9	2681.8	2655.1	2675.5	2668.4
5°	2691.5	2673.8	2640.9	2655.1	2642.7
7.5°	2681.8	2660.4	2616.9	2621.3	2606.2
10°	2667.5	2639.1	2584.9	2579.5	2559.1
12.5°	2649.8	2611.5	2544.9	2526.2	2499.5
15°	2627.5	2578.7	2494.2	2464.0	2432.0
17.5°	2599.1	2536.9	2436.4	2387.5	2351.1
20°	2562.7	2488.0	2368.0	2304.0	2265.8
22.5°	2524.4	2432.0	2282.7	2216.0	2173.3
25°	2476.4	2368.0	2192.0	2109.3	2055.1
27.5°	2422.2	2294.2	2094.2	1992.0	1937.8
30°	2356.4	2208.0	1986.7	1864.0	1809.8
32.5°	2283.5	2110.2	1869.3	1738.7	1675.5
35°	2193.8	1997.3	1745.8	1606.2	1549.3
37.5°	2101.3	1875.5	1607.1	1477.3	1428.4
40°	1987.5	1746.7	1477.3	1358.2	1314.7
42.5°	1871.1	1603.5	1347.6	1248.9	1213.3
45°	1738.7	1463.1	1223.1	1150.2	1122.7
47.5°	1590.2	1323.6	1108.4	1063.1	1043.6
50°	1444.4	1184.0	996.4	978.7	972.4
52.5°	1299.6	1047.1	899.6	901.3	897.8
55°	1144.0	917.3	812.4	824.0	825.8
57.5°	989.3	793.8	730.7	752.0	753.8
60°	850.7	688.0	652.4	678.2	679.1
62.5°	722.7	589.3	581.3	606.2	576.9
65°	607.1	504.9	516.4	494.2	409.8
67.5°	504.0	434.7	453.3	345.8	290.7
70°	406.2	366.2	380.4	257.8	224.9
72.5°	320.9	309.3	288.0	200.9	175.1
75°	248.9	256.0	211.6	152.0	133.3
77.5°	190.2	208.0	153.8	109.3	91.6
80°	138.7	155.6	101.3	65.8	55.1
82.5°	91.6	97.8	53.3	33.8	29.3
85°	48.0	45.3	21.3	19.6	18.7
87.5°	20.4	11.6	10.7	8.9	8.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)