

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: P289575

Luminaire Tested: **8RSRK-RM-100-HE-L850**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P289575
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-100-HE-L850
Description: 8ft RSRK, 1000 LUMEN PER FOOT 80CRI 5000K CCT WITH ROUND MEDIUM LENS
Light Source: -
Ballast/Driver: -

Summary

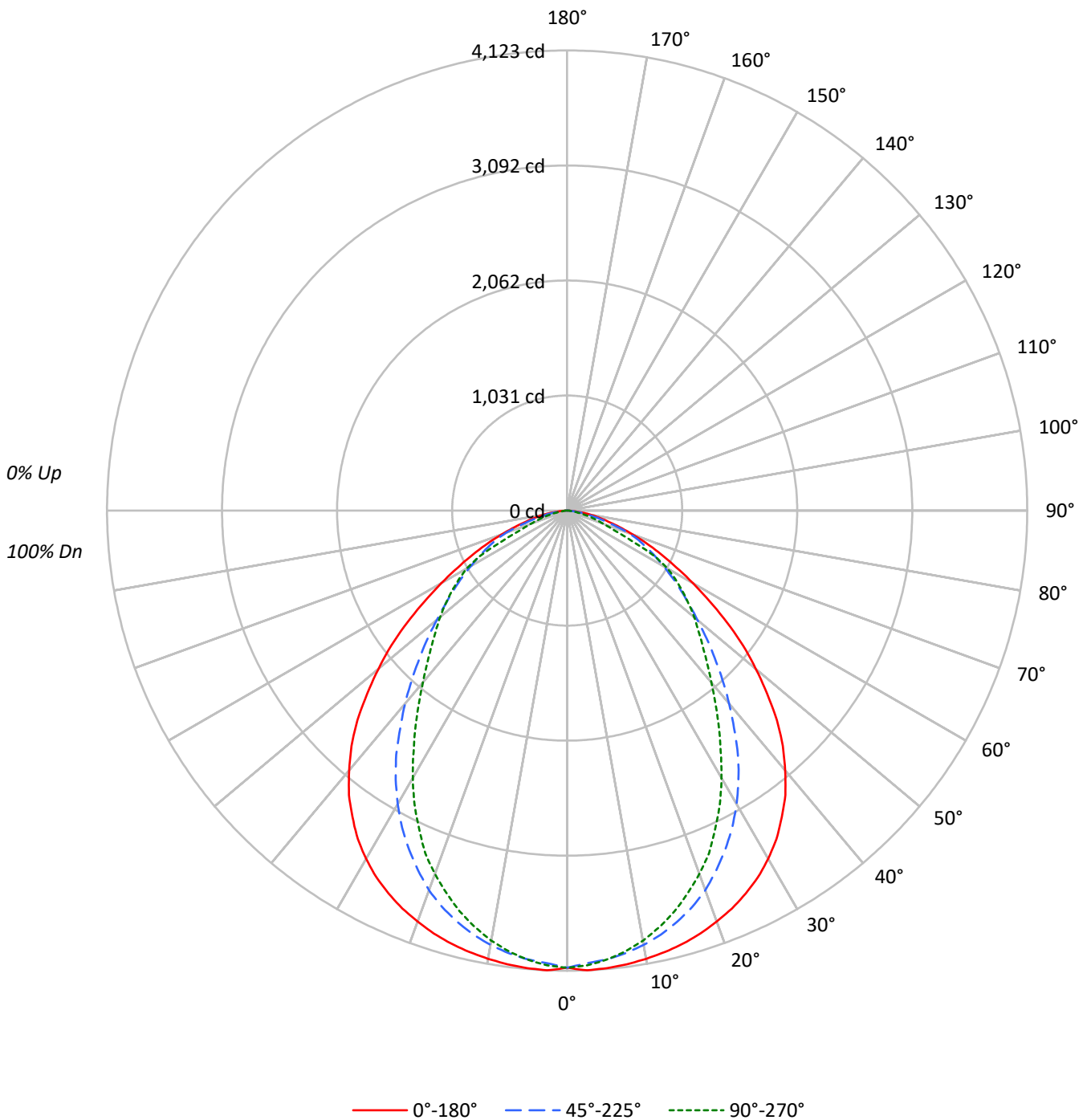
Lumens per Lamp: N/A
Luminaire Lumens: 8694.8 lumens
Efficiency: N/A
Efficacy: 301.9 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.05 / 1.18
Luminous Opening: Rectangular (W 1' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5511	5511	5511
5°	5557	5453	5457
10°	5572	5399	5345
15°	5595	5311	5179
20°	5610	5183	4960
25°	5620	4975	4664
30°	5597	4719	4298
35°	5509	4384	3890
40°	5337	3967	3530
45°	5058	3558	3266
50°	4622	3189	3112
55°	4103	2913	2961
60°	3500	2684	2794
65°	2955	2514	1994
70°	2443	2288	1352
75°	1978	1681	1059
80°	1643	1200	653
85°	1133	503	440



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	385.4	4.4
10°-20°	1082.9	12.5
20°-30°	1568.5	18.0
30°-40°	1721.5	19.8
40°-50°	1555.4	17.9
50°-60°	1212.8	13.9
60°-70°	767.7	8.8
70°-80°	336.2	3.9
80°-90°	64.5	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°	3036.8	34.9
0°-40°	4758.3	54.7
0°-60°	7526.5	86.6
0°-90°	8694.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8694.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4096	4096	4096	4096	4096	
5°	4115	4088	4037	4059	4040	392
15°	4017	3942	3813	3767	3718	1134
25°	3786	3620	3351	3225	3142	1744
35°	3354	3053	2669	2456	2368	2094
45°	2658	2237	1870	1758	1716	2038
55°	1749	1402	1242	1260	1262	1563
65°	928	772	790	756	626	930
75°	380	391	323	232	204	416
85°	73	69	33	30	28	95
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4095.7	4095.7	4095.7	4095.7	4095.7
2.5°	4122.9	4099.8	4059.0	4090.2	4079.4
5°	4114.7	4087.5	4037.3	4059.0	4040.0
7.5°	4099.8	4067.1	4000.6	4007.4	3984.3
10°	4078.0	4034.5	3951.6	3943.5	3912.2
12.5°	4050.8	3992.4	3890.5	3862.0	3821.2
15°	4016.9	3942.1	3813.0	3766.8	3717.9
17.5°	3973.4	3878.3	3724.7	3650.0	3594.3
20°	3917.7	3803.5	3620.1	3522.2	3463.8
22.5°	3859.2	3717.9	3489.6	3387.7	3322.5
25°	3785.9	3620.1	3351.0	3224.6	3141.7
27.5°	3703.0	3507.3	3201.5	3045.3	2962.4
30°	3602.4	3375.5	3037.1	2849.6	2766.7
32.5°	3491.0	3226.0	2857.7	2658.0	2561.5
35°	3353.7	3053.4	2668.9	2455.5	2368.5
37.5°	3212.4	2867.3	2456.9	2258.5	2183.7
40°	3038.5	2670.2	2258.5	2076.4	2009.8
42.5°	2860.5	2451.4	2060.1	1909.2	1854.9
45°	2658.0	2236.7	1869.8	1758.4	1716.3
47.5°	2431.0	2023.4	1694.5	1625.2	1595.3
50°	2208.2	1810.0	1523.3	1496.1	1486.6
52.5°	1986.7	1600.8	1375.2	1377.9	1372.5
55°	1748.9	1402.4	1242.0	1259.7	1262.4
57.5°	1512.4	1213.5	1117.0	1149.6	1152.3
60°	1300.5	1051.8	997.4	1036.8	1038.2
62.5°	1104.8	900.9	888.7	926.8	881.9
65°	928.1	771.8	789.5	755.5	626.4
67.5°	770.5	664.5	693.0	528.6	444.4
70°	621.0	559.9	581.6	394.1	343.8
72.5°	490.6	472.9	440.3	307.1	267.7
75°	380.5	391.4	323.4	232.4	203.8
77.5°	290.8	318.0	235.1	167.1	140.0
80°	212.0	237.8	154.9	100.6	84.3
82.5°	140.0	149.5	81.5	51.6	44.8
85°	73.4	69.3	32.6	29.9	28.5
87.5°	31.3	17.7	16.3	13.6	13.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)