

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: P289536

Luminaire Tested: **6RSRK-RM-100-HE-L850**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P289536  
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: 6RSRK-RM-100-HE-L850  
Description: 6ft RSRK, 1000 LUMEN PER FOOT 80CRI 5000K CCT WITH ROUND MEDIUM LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

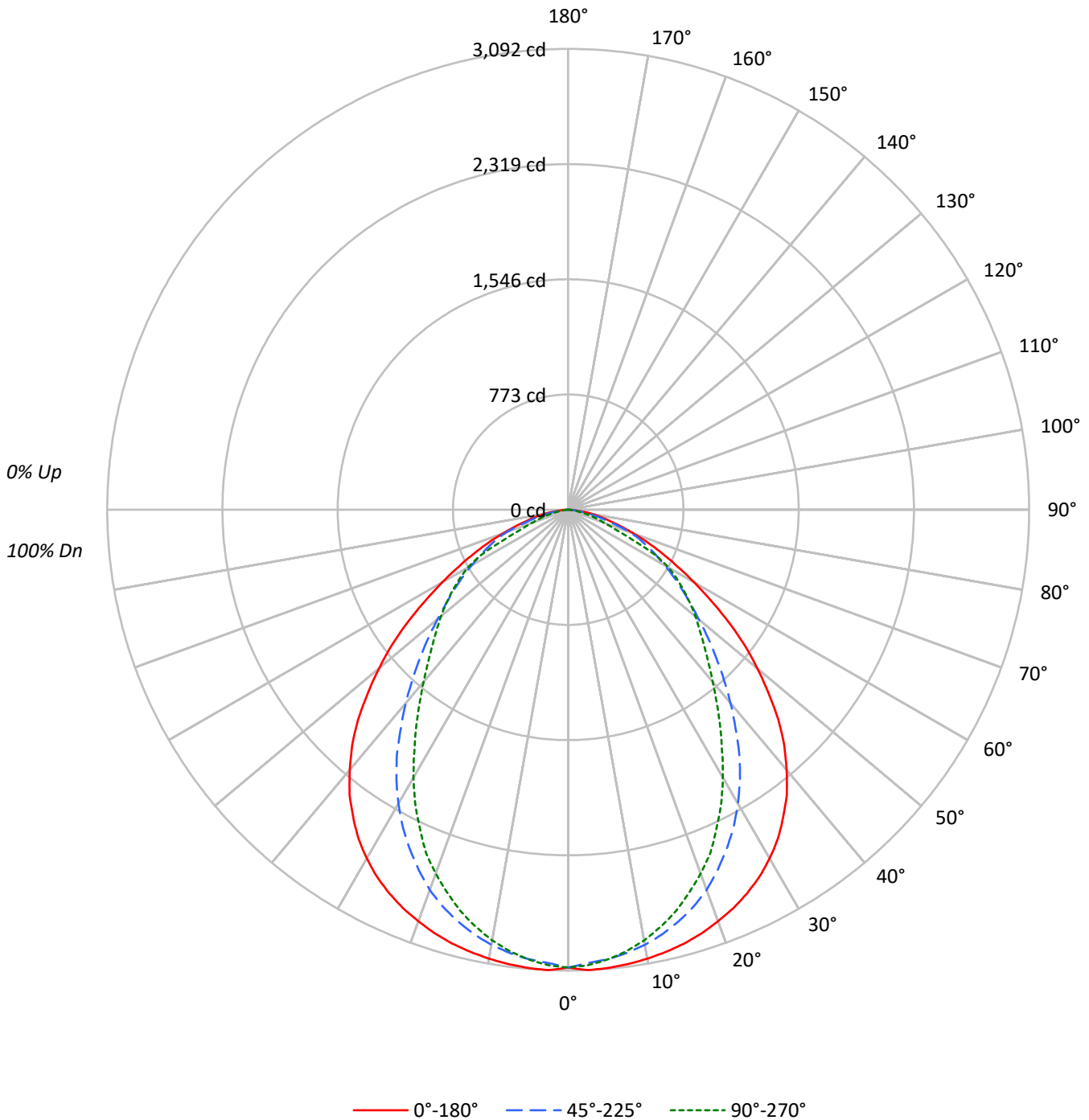
Lumens per Lamp: N/A  
Luminaire Lumens: 6521.1 lumens  
Efficiency: N/A  
Efficacy: 226.4 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 1.05 / 1.18  
Luminous Opening: Rectangular (W 1' x L: 6' x H: 0')  
CIE Type: Direct

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				
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°	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°	3499	2684	2794
65°	2955	2513	1994
70°	2443	2288	1352
75°	1978	1682	1060
80°	1643	1200	653
85°	1132	504	440



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	289.0	4.4
10°-20°	812.2	12.5
20°-30°	1176.3	18.0
30°-40°	1291.1	19.8
40°-50°	1166.5	17.9
50°-60°	909.6	13.9
60°-70°	575.8	8.8
70°-80°	252.1	3.9
80°-90°	48.3	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°	2277.6	34.9
0°-40°	3568.7	54.7
0°-60°	5644.9	86.6
0°-90°	6521.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6521.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3072	3072	3072	3072	3072	
5°	3086	3066	3028	3044	3030	294
15°	3013	2957	2860	2825	2788	851
25°	2839	2715	2513	2418	2356	1308
35°	2515	2290	2002	1842	1776	1571
45°	1994	1678	1402	1319	1287	1529
55°	1312	1052	932	945	947	1172
65°	696	579	592	567	470	697
75°	285	294	243	174	153	312
85°	55	52	24	22	21	71
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3071.8	3071.8	3071.8	3071.8	3071.8
2.5°	3092.1	3074.8	3044.2	3067.7	3059.5
5°	3086.0	3065.6	3027.9	3044.2	3030.0
7.5°	3074.8	3050.4	3000.4	3005.5	2988.2
10°	3058.5	3025.9	2963.7	2957.6	2934.2
12.5°	3038.1	2994.3	2917.9	2896.5	2865.9
15°	3012.7	2956.6	2859.8	2825.1	2788.4
17.5°	2980.0	2908.7	2793.5	2737.5	2695.7
20°	2938.3	2852.6	2715.1	2641.7	2597.9
22.5°	2894.4	2788.4	2617.2	2540.8	2491.9
25°	2839.4	2715.1	2513.3	2418.5	2356.3
27.5°	2777.2	2630.5	2401.2	2283.9	2221.8
30°	2701.8	2531.6	2277.8	2137.2	2075.0
32.5°	2618.2	2419.5	2143.3	1993.5	1921.1
35°	2515.3	2290.1	2001.6	1841.6	1776.4
37.5°	2409.3	2150.4	1842.7	1693.9	1637.8
40°	2278.9	2002.7	1693.9	1557.3	1507.3
42.5°	2145.3	1838.6	1545.1	1431.9	1391.2
45°	1993.5	1677.5	1402.4	1318.8	1287.2
47.5°	1823.3	1517.5	1270.9	1218.9	1196.5
50°	1656.1	1357.5	1142.5	1122.1	1115.0
52.5°	1490.0	1200.6	1031.4	1033.4	1029.4
55°	1311.7	1051.8	931.5	944.8	946.8
57.5°	1134.3	910.1	837.8	862.2	864.3
60°	975.3	788.8	748.1	777.6	778.6
62.5°	828.6	675.7	666.5	695.1	661.4
65°	696.1	578.9	592.1	566.7	469.8
67.5°	577.9	498.4	519.8	396.5	333.3
70°	465.8	419.9	436.2	295.6	257.8
72.5°	367.9	354.7	330.2	230.3	200.8
75°	285.4	293.5	242.6	174.3	152.9
77.5°	218.1	238.5	176.3	125.4	105.0
80°	159.0	178.4	116.2	75.4	63.2
82.5°	105.0	112.1	61.1	38.7	33.6
85°	55.0	52.0	24.5	22.4	21.4
87.5°	23.4	13.2	12.2	10.2	10.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)