

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-50-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-50-HE-L850  
Description: 4ft RSRK, 500 LUMEN PER FOOT 80CRI 5000K CCT WITH NO LENS  
Light Source: -  
Ballast/Driver: -

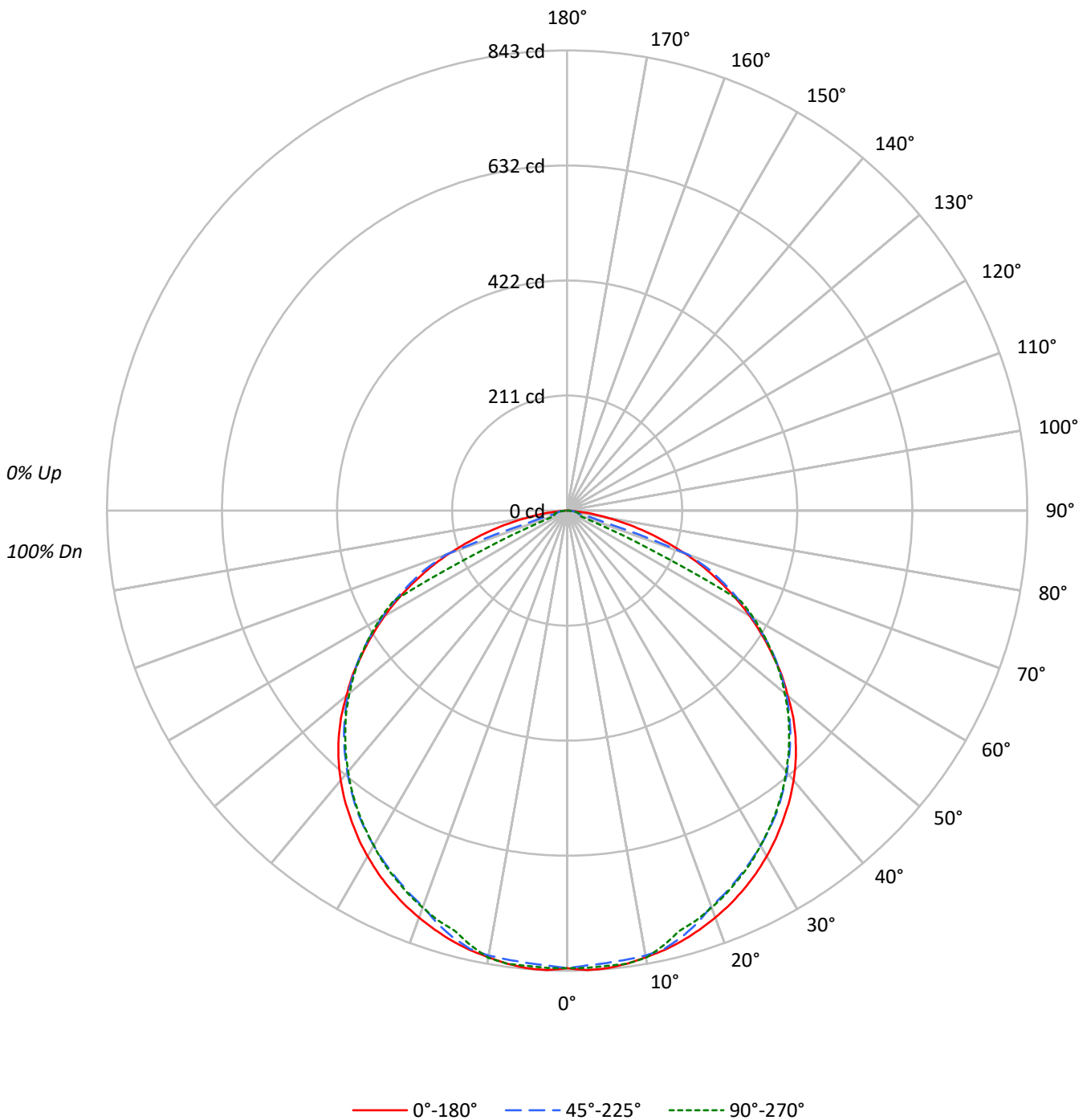
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2307.9 lumens  
Efficiency: N/A  
Efficacy: 161.4 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): 14.3  
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°	2256	2256	2256
5°	2273	2247	2262
10°	2270	2261	2273
15°	2273	2255	2219
20°	2272	2210	2217
25°	2273	2203	2209
30°	2272	2202	2202
35°	2269	2205	2198
40°	2268	2200	2193
45°	2253	2200	2188
50°	2210	2196	2179
55°	2150	2170	2160
60°	2080	2103	2126
65°	1970	2025	1070
70°	1803	1845	202
75°	1547	222	245
80°	1161	282	282
85°	596	296	266



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.6	3.5
10°-20°	228.2	9.9
20°-30°	346.9	15.0
30°-40°	422.5	18.3
40°-50°	447.1	19.4
50°-60°	410.1	17.8
60°-70°	276.6	12.0
70°-80°	83.6	3.6
80°-90°	13.4	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°	654.7	28.4
0°-40°	1077.2	46.7
0°-60°	1934.3	83.8
0°-90°	2307.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2307.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	838	838	838	838	838	
5°	842	835	832	839	837	80
15°	816	812	809	803	797	230
25°	766	764	742	750	744	353
35°	691	676	671	673	669	432
45°	592	578	578	579	575	456
55°	458	452	462	462	460	410
65°	309	305	318	322	168	305
75°	149	150	21	24	24	158
85°	19	10	10	9	9	29
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	838.4	838.4	838.4	838.4	838.4
2.5°	842.6	836.2	834.1	839.4	838.4
5°	841.6	835.1	831.9	839.4	837.3
7.5°	837.3	830.8	829.8	838.4	837.3
10°	830.8	826.6	827.6	835.1	831.9
12.5°	824.4	820.1	822.3	820.1	815.9
15°	815.9	811.6	809.4	803.0	796.6
17.5°	805.2	803.0	792.3	790.2	787.0
20°	793.4	793.4	771.9	778.4	774.1
22.5°	780.5	780.5	758.0	764.5	760.2
25°	765.5	764.5	742.0	749.5	744.1
27.5°	749.5	744.1	725.9	732.3	728.1
30°	731.3	721.6	708.8	713.1	708.8
32.5°	712.0	698.1	690.6	693.8	689.5
35°	690.6	675.6	671.3	673.4	669.2
37.5°	669.2	653.1	648.8	652.0	647.7
40°	645.6	630.6	626.3	628.5	624.2
42.5°	619.9	607.1	602.8	603.9	600.6
45°	592.1	578.2	578.2	579.2	574.9
47.5°	562.1	550.3	551.4	552.5	549.2
50°	527.8	519.3	524.6	525.7	520.4
52.5°	495.7	487.2	493.6	495.7	491.5
55°	458.3	451.8	462.5	462.5	460.4
57.5°	422.9	416.5	427.2	431.5	428.3
60°	386.5	380.1	390.8	398.3	395.1
62.5°	348.0	342.6	355.5	365.1	358.7
65°	309.4	305.1	318.0	322.3	168.1
67.5°	269.8	266.6	281.6	101.7	26.8
70°	229.1	225.9	234.5	25.7	25.7
72.5°	187.4	188.4	74.9	24.6	24.6
75°	148.8	149.9	21.4	23.6	23.6
77.5°	110.3	112.4	20.4	21.4	21.4
80°	74.9	54.6	18.2	18.2	18.2
82.5°	45.0	12.8	13.9	13.9	12.8
85°	19.3	9.6	9.6	8.6	8.6
87.5°	6.4	4.3	4.3	3.2	3.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)