

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-TS-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 (G3-1810-975-5)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4RSRK-TS-50-HE-L850  
Description: 4ft RSRK, 500 LUMEN PER FOOT 80CRI 5000K CCT WITH TRILOBE SMOOTH LENS  
Light Source: -  
Ballast/Driver: -

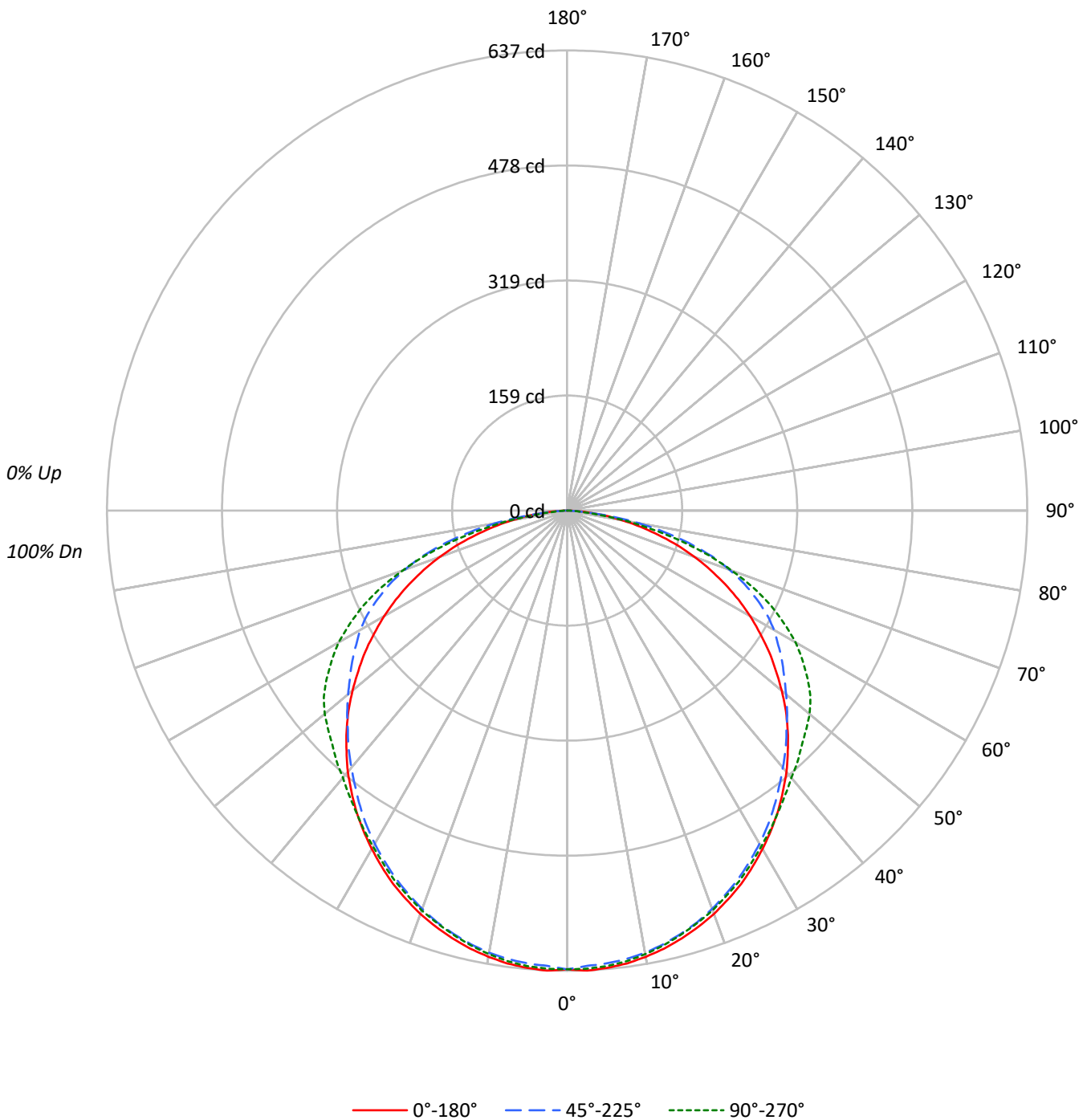
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1955.1 lumens  
Efficiency: N/A  
Efficacy: 136.7 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.26 / 1.39  
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	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61	70	65	60	68	63	59	56
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	54	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	38	50	43	38	49	42	38	36
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31
8	59	45	36	30	57	44	36	30	43	36	30	42	35	30	41	34	30	28
9	55	41	33	27	54	41	33	27	40	32	27	39	32	27	37	31	27	25
10	52	38	30	25	50	38	30	25	37	29	25	36	29	24	35	29	24	22

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1709	1709	1709
5°	1716	1700	1710
10°	1714	1699	1703
15°	1708	1691	1694
20°	1702	1680	1686
25°	1693	1668	1678
30°	1680	1655	1669
35°	1671	1642	1673
40°	1659	1632	1697
45°	1644	1635	1748
50°	1623	1656	1834
55°	1602	1704	1908
60°	1574	1781	1967
65°	1535	1841	1982
70°	1477	1881	1906
75°	1360	1820	1702
80°	1206	1565	1306
85°	868	794	519



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.1	3.1
10°-20°	172.1	8.8
20°-30°	260.6	13.3
30°-40°	316.1	16.2
40°-50°	338.1	17.3
50°-60°	327.7	16.8
60°-70°	274.5	14.0
70°-80°	168.6	8.6
80°-90°	37.3	1.9
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°	492.8	25.2
0°-40°	808.9	41.4
0°-60°	1474.7	75.4
0°-90°	1955.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1955.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	635	635	635	635	635	
5°	635	634	629	633	633	60
15°	613	612	607	610	608	173
25°	570	567	562	566	565	263
35°	509	502	500	508	509	318
45°	432	423	430	451	459	333
55°	342	332	363	399	407	305
65°	241	240	289	309	311	238
75°	131	153	175	168	164	139
85°	28	38	26	18	17	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	635.0	635.0	635.0	635.0	635.0
2.5°	637.4	635.7	630.9	635.0	634.7
5°	635.4	634.0	629.2	633.3	633.0
7.5°	632.3	630.9	626.1	630.2	629.2
10°	627.2	626.1	621.7	624.8	623.4
12.5°	621.0	620.0	614.8	618.2	616.5
15°	613.1	611.7	606.9	609.7	608.0
17.5°	604.2	602.5	597.7	600.4	598.7
20°	594.3	591.9	586.7	590.5	588.8
22.5°	582.3	580.6	574.4	578.5	576.8
25°	570.3	566.9	561.7	565.5	565.2
27.5°	555.9	552.5	547.3	551.8	551.1
30°	540.8	537.1	532.6	537.1	537.1
32.5°	525.1	520.3	516.9	522.0	523.7
35°	508.6	502.1	499.7	508.3	509.3
37.5°	490.5	484.0	481.9	493.2	496.0
40°	472.3	464.1	464.5	478.8	483.0
42.5°	452.1	443.9	447.7	464.5	472.0
45°	431.9	422.7	429.5	451.4	459.3
47.5°	410.7	401.8	413.1	438.8	448.7
50°	387.7	378.8	395.6	426.8	438.1
52.5°	364.4	355.2	378.8	414.4	424.7
55°	341.5	332.2	363.1	399.0	406.6
57.5°	316.8	309.0	346.6	378.8	386.4
60°	292.5	285.7	330.9	358.3	365.5
62.5°	267.5	262.4	311.7	334.6	338.8
65°	241.1	239.8	289.1	308.6	311.3
67.5°	214.8	218.2	265.8	278.5	278.8
70°	187.7	196.9	239.1	244.6	242.2
72.5°	160.3	176.4	209.6	206.9	204.8
75°	130.8	152.8	175.0	167.5	163.7
77.5°	104.1	128.8	138.0	127.4	121.6
80°	77.8	101.7	101.0	87.3	84.3
82.5°	52.4	70.9	60.6	49.3	43.2
85°	28.1	37.7	25.7	17.8	16.8
87.5°	10.6	8.9	6.9	6.2	6.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)