

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: **8RSRK-50-HE-L940**

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: 8RSRK-50-HE-L940  
Description: 8ft RSRK, 500 LUMEN PER FOOT 90CRI 4000K CCT WITH NO LENS  
Light Source: -  
Ballast/Driver: -

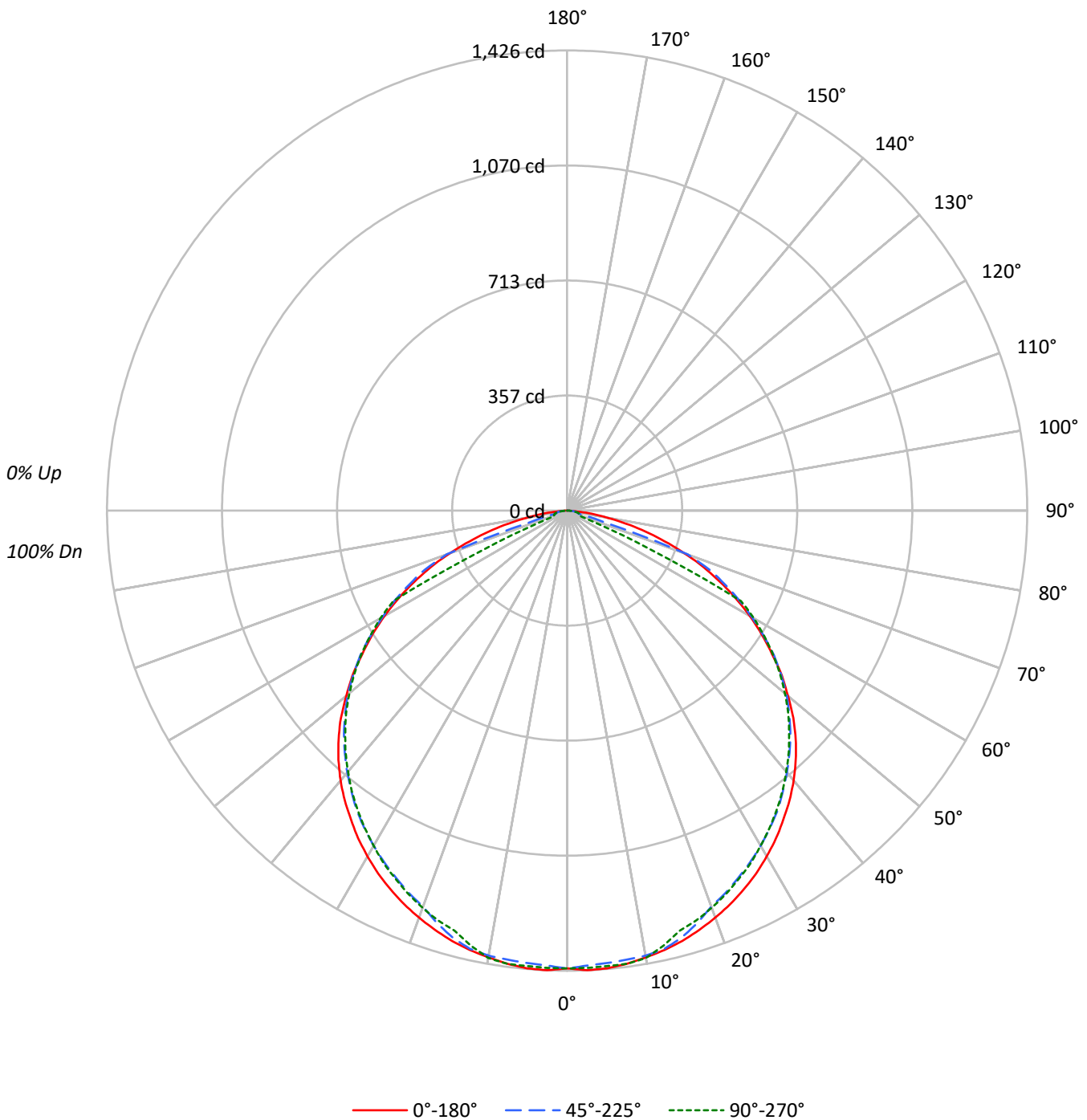
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3905.0 lumens  
Efficiency: N/A  
Efficacy: 273.1 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.26 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 8' 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°	1909	1909	1909
5°	1923	1901	1913
10°	1921	1913	1923
15°	1923	1908	1877
20°	1922	1870	1875
25°	1923	1864	1869
30°	1922	1863	1863
35°	1919	1866	1860
40°	1919	1861	1855
45°	1906	1862	1851
50°	1869	1858	1843
55°	1819	1836	1827
60°	1760	1779	1799
65°	1667	1713	905
70°	1525	1561	171
75°	1309	188	207
80°	982	239	239
85°	503	252	224



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.8	3.5
10°-20°	386.1	9.9
20°-30°	586.9	15.0
30°-40°	714.9	18.3
40°-50°	756.5	19.4
50°-60°	693.9	17.8
60°-70°	468.0	12.0
70°-80°	141.4	3.6
80°-90°	22.6	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°	1107.7	28.4
0°-40°	1822.6	46.7
0°-60°	3272.9	83.8
0°-90°	3905.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3905.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1418	1418	1418	1418	1418	
5°	1424	1413	1408	1420	1417	135
15°	1380	1373	1370	1359	1348	390
25°	1295	1294	1255	1268	1259	597
35°	1168	1143	1136	1140	1132	732
45°	1002	978	978	980	973	771
55°	775	764	783	783	779	694
65°	524	516	538	545	284	517
75°	252	254	36	40	40	267
85°	33	16	16	14	14	50
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1418.5	1418.5	1418.5	1418.5	1418.5
2.5°	1425.7	1414.8	1411.3	1420.3	1418.5
5°	1423.9	1413.0	1407.6	1420.3	1416.7
7.5°	1416.7	1405.8	1404.0	1418.5	1416.7
10°	1405.8	1398.5	1400.3	1413.0	1407.6
12.5°	1394.9	1387.7	1391.3	1387.7	1380.4
15°	1380.4	1373.2	1369.6	1358.7	1347.8
17.5°	1362.3	1358.7	1340.6	1337.0	1331.5
20°	1342.4	1342.4	1306.1	1317.0	1309.8
22.5°	1320.6	1320.6	1282.6	1293.5	1286.2
25°	1295.3	1293.5	1255.4	1268.1	1259.1
27.5°	1268.1	1259.1	1228.3	1239.1	1231.9
30°	1237.3	1221.0	1199.3	1206.5	1199.3
32.5°	1204.7	1181.2	1168.5	1173.9	1166.7
35°	1168.5	1143.1	1135.9	1139.5	1132.2
37.5°	1132.2	1105.1	1097.8	1103.2	1096.0
40°	1092.4	1067.0	1059.8	1063.4	1056.2
42.5°	1048.9	1027.2	1019.9	1021.7	1016.3
45°	1001.8	978.3	978.3	980.0	972.8
47.5°	951.1	931.2	933.0	934.8	929.3
50°	893.1	878.6	887.7	889.5	880.4
52.5°	838.8	824.3	835.1	838.8	831.5
55°	775.4	764.5	782.6	782.6	779.0
57.5°	715.6	704.7	722.8	730.1	724.6
60°	654.0	643.1	661.2	673.9	668.5
62.5°	588.7	579.7	601.4	617.7	606.9
65°	523.5	516.3	538.0	545.3	284.4
67.5°	456.5	451.1	476.5	172.1	45.3
70°	387.7	382.3	396.8	43.5	43.5
72.5°	317.0	318.8	126.8	41.7	41.7
75°	251.8	253.6	36.2	39.9	39.9
77.5°	186.6	190.2	34.4	36.2	36.2
80°	126.8	92.4	30.8	30.8	30.8
82.5°	76.1	21.7	23.5	23.5	21.7
85°	32.6	16.3	16.3	14.5	14.5
87.5°	10.9	7.2	7.2	5.5	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)