

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-TS-50-HE-L840**

Issue Date: 3/3/2020



**Test Information**

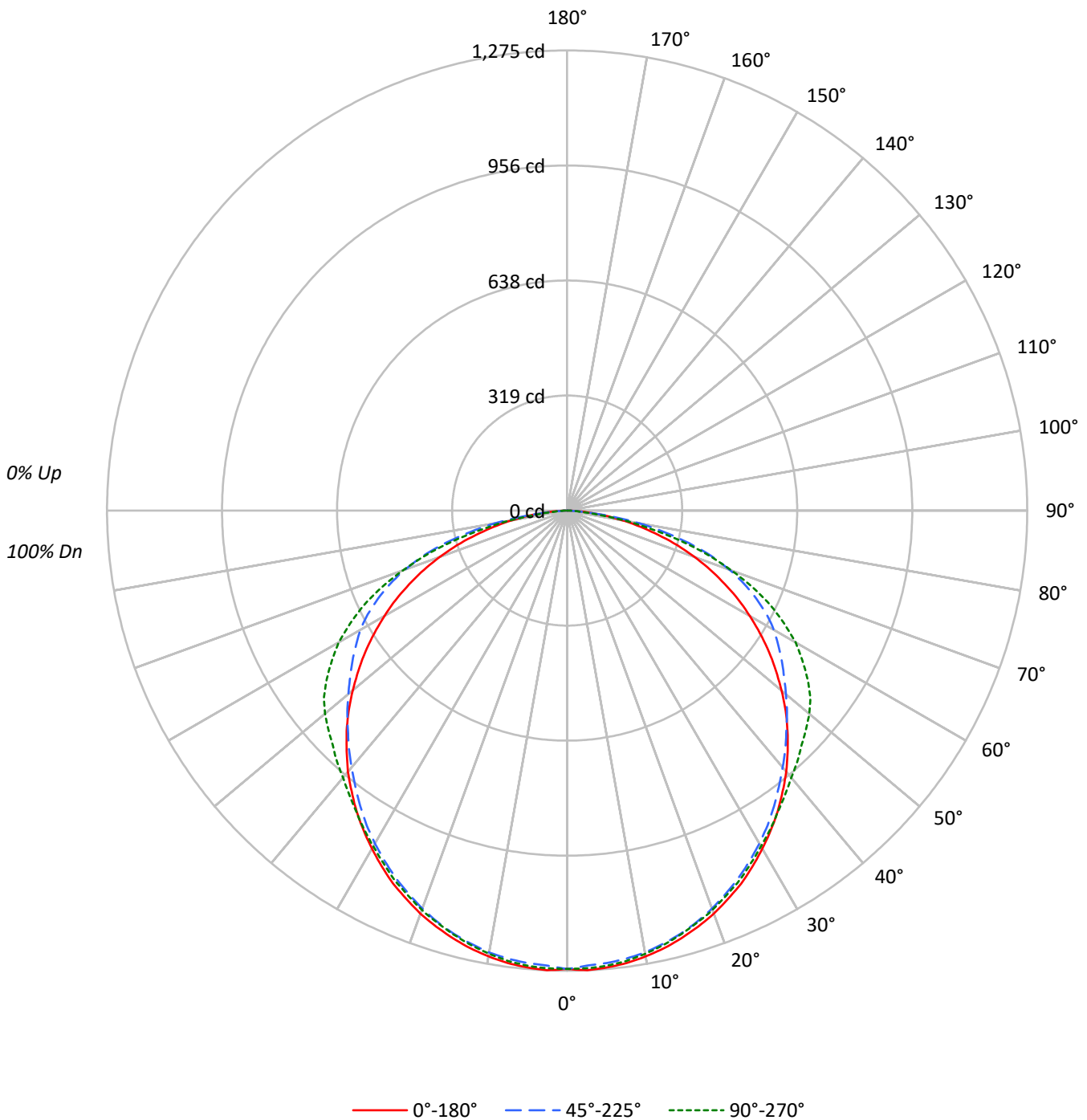
Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1810-975-5)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8RSRK-TS-50-HE-L840  
Description: 8ft RSRK, 500 LUMEN PER FOOT 80CRI 4000K CCT WITH TRILOBE SMOOTH LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3910.2 lumens  
Efficiency: N/A  
Efficacy: 273.4 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.26 / 1.39  
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

TEST NUMBER: P#  
CATALOG NUMBER: 8RSRK-TS-50-HE-L840

### 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	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°	1681	1655	1669
35°	1671	1642	1673
40°	1659	1632	1697
45°	1644	1635	1748
50°	1623	1656	1834
55°	1602	1703	1907
60°	1574	1781	1967
65°	1535	1841	1982
70°	1477	1881	1905
75°	1360	1820	1702
80°	1205	1566	1306
85°	868	794	519



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.3	3.1
10°-20°	344.2	8.8
20°-30°	521.2	13.3
30°-40°	632.1	16.2
40°-50°	676.2	17.3
50°-60°	655.4	16.8
60°-70°	548.9	14.0
70°-80°	337.3	8.6
80°-90°	74.5	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°	985.6	25.2
0°-40°	1617.8	41.4
0°-60°	2949.4	75.4
0°-90°	3910.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3910.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1270	1270	1270	1270	1270	
5°	1271	1268	1258	1267	1266	121
15°	1226	1224	1214	1219	1216	346
25°	1141	1134	1124	1131	1130	525
35°	1017	1004	1000	1017	1019	636
45°	864	845	859	903	919	666
55°	683	664	726	798	813	610
65°	482	480	578	617	623	477
75°	262	306	350	335	327	278
85°	56	75	51	36	34	71
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1270.1	1270.1	1270.1	1270.1	1270.1
2.5°	1274.9	1271.4	1261.8	1270.1	1269.4
5°	1270.7	1268.0	1258.4	1266.6	1265.9
7.5°	1264.6	1261.8	1252.2	1260.5	1258.4
10°	1254.3	1252.2	1243.3	1249.5	1246.8
12.5°	1242.0	1239.9	1229.6	1236.5	1233.1
15°	1226.2	1223.5	1213.9	1219.4	1215.9
17.5°	1208.4	1205.0	1195.4	1200.9	1197.4
20°	1188.5	1183.7	1173.5	1181.0	1177.6
22.5°	1164.6	1161.1	1148.8	1157.0	1153.6
25°	1140.6	1133.7	1123.5	1131.0	1130.3
27.5°	1111.8	1105.0	1094.7	1103.6	1102.2
30°	1081.7	1074.1	1065.2	1074.1	1074.1
32.5°	1050.2	1040.6	1033.7	1044.0	1047.4
35°	1017.3	1004.3	999.5	1016.6	1018.6
37.5°	981.0	968.0	963.8	986.5	991.9
40°	944.7	928.2	928.9	957.7	965.9
42.5°	904.2	887.8	895.3	928.9	944.0
45°	863.8	845.3	859.0	902.9	918.6
47.5°	821.4	803.5	826.2	877.5	897.4
50°	775.5	757.6	791.2	853.6	876.2
52.5°	728.9	710.4	757.6	828.9	849.4
55°	683.0	664.5	726.1	798.1	813.1
57.5°	633.7	617.9	693.3	757.6	772.7
60°	585.0	571.3	661.7	716.5	730.9
62.5°	535.0	524.7	623.4	669.3	677.5
65°	482.3	479.5	578.2	617.2	622.7
67.5°	429.5	436.4	531.6	556.9	557.6
70°	375.4	393.9	478.2	489.1	484.3
72.5°	320.6	352.8	419.2	413.8	409.7
75°	261.7	305.5	350.1	335.0	327.4
77.5°	208.3	257.6	276.1	254.8	243.2
80°	155.5	203.5	202.1	174.7	168.5
82.5°	104.8	141.8	121.3	98.6	86.3
85°	56.2	75.4	51.4	35.6	33.6
87.5°	21.2	17.8	13.7	12.3	12.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)