

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-65-HE-L850**

Issue Date: 3/3/2020



**Test Information**

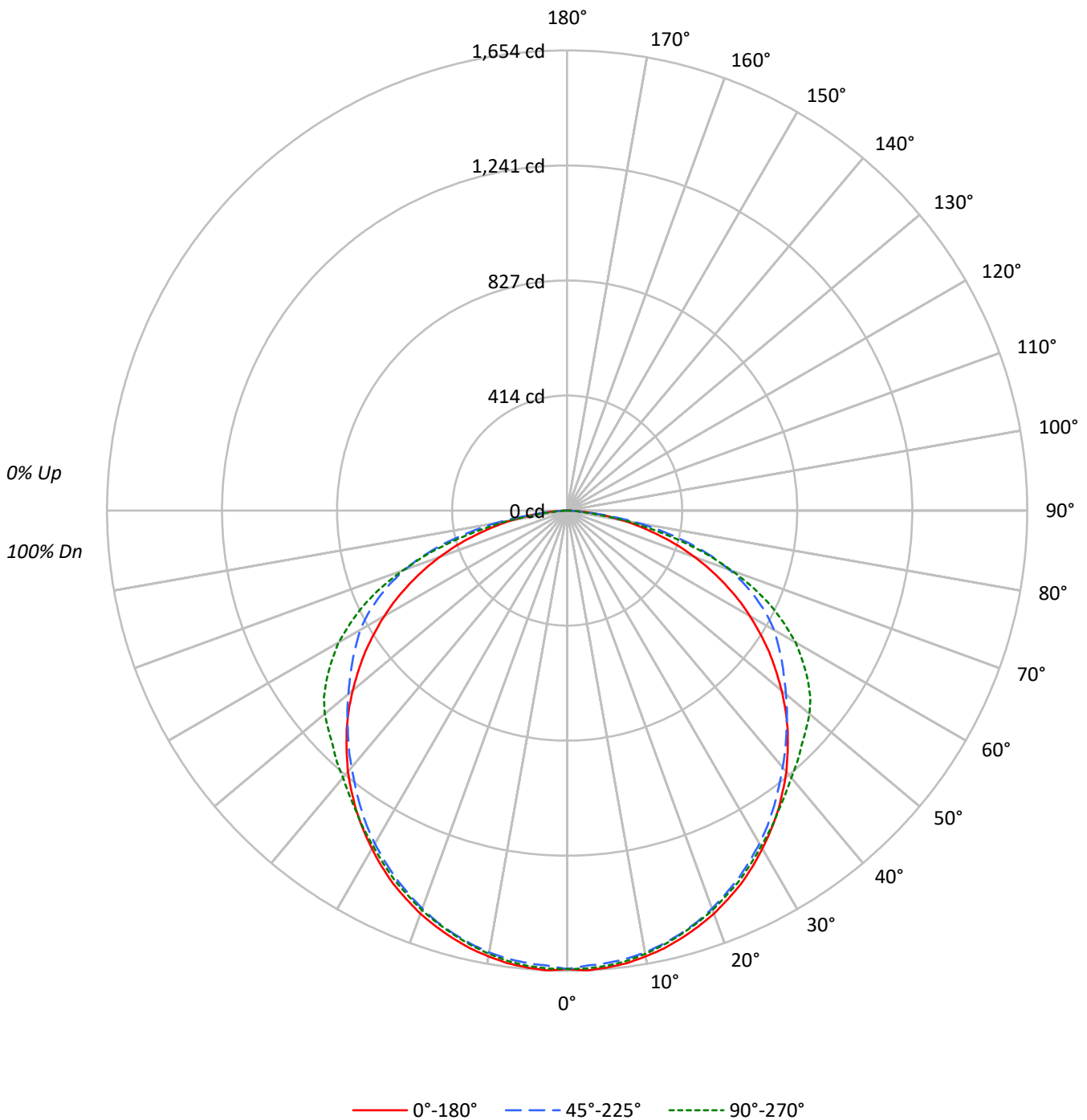
Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1810-975-5)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8RSRK-TS-65-HE-L850  
Description: 8ft RSRK, 650 LUMEN PER FOOT 80CRI 5000K CCT WITH TRILOBE SMOOTH LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5073.4 lumens  
Efficiency: N/A  
Efficacy: 268.4 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): 18.9  
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°	2217	2217	2217
5°	2227	2205	2218
10°	2223	2204	2210
15°	2216	2194	2198
20°	2208	2180	2188
25°	2197	2164	2177
30°	2180	2147	2165
35°	2168	2130	2171
40°	2153	2117	2201
45°	2133	2121	2268
50°	2106	2149	2380
55°	2079	2210	2475
60°	2043	2310	2552
65°	1992	2388	2572
70°	1916	2441	2472
75°	1765	2361	2209
80°	1564	2032	1694
85°	1125	1030	673



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.1	3.1
10°-20°	446.6	8.8
20°-30°	676.2	13.3
30°-40°	820.2	16.2
40°-50°	877.4	17.3
50°-60°	850.4	16.8
60°-70°	712.2	14.0
70°-80°	437.6	8.6
80°-90°	96.7	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°	1278.9	25.2
0°-40°	2099.0	41.4
0°-60°	3826.8	75.4
0°-90°	5073.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5073.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1648	1648	1648	1648	1648	
5°	1649	1645	1633	1643	1642	157
15°	1591	1587	1575	1582	1578	449
25°	1480	1471	1458	1467	1467	682
35°	1320	1303	1297	1319	1322	825
45°	1121	1097	1115	1172	1192	864
55°	886	862	942	1036	1055	791
65°	626	622	750	801	808	619
75°	340	396	454	435	425	361
85°	73	98	67	46	44	92
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1647.9	1647.9	1647.9	1647.9	1647.9
2.5°	1654.1	1649.7	1637.2	1647.9	1647.0
5°	1648.8	1645.2	1632.8	1643.4	1642.5
7.5°	1640.8	1637.2	1624.8	1635.4	1632.8
10°	1627.4	1624.8	1613.2	1621.2	1617.7
12.5°	1611.4	1608.8	1595.4	1604.3	1599.9
15°	1591.0	1587.4	1575.0	1582.1	1577.7
17.5°	1567.9	1563.4	1551.0	1558.1	1553.7
20°	1542.1	1535.9	1522.5	1532.3	1527.9
22.5°	1511.0	1506.6	1490.6	1501.2	1496.8
25°	1479.9	1471.0	1457.7	1467.4	1466.6
27.5°	1442.6	1433.7	1420.3	1431.9	1430.1
30°	1403.4	1393.7	1382.1	1393.7	1393.7
32.5°	1362.6	1350.1	1341.2	1354.6	1359.0
35°	1319.9	1303.0	1296.8	1319.0	1321.7
37.5°	1272.8	1255.9	1250.6	1279.9	1287.0
40°	1225.7	1204.4	1205.2	1242.6	1253.2
42.5°	1173.2	1151.9	1161.7	1205.2	1224.8
45°	1120.8	1096.8	1114.6	1171.5	1191.9
47.5°	1065.7	1042.6	1071.9	1138.6	1164.4
50°	1006.1	983.0	1026.6	1107.5	1136.8
52.5°	945.7	921.7	983.0	1075.5	1102.1
55°	886.2	862.2	942.1	1035.5	1055.0
57.5°	822.2	801.7	899.5	983.0	1002.6
60°	759.1	741.3	858.6	929.7	948.4
62.5°	694.2	680.8	808.8	868.4	879.0
65°	625.7	622.2	750.2	800.8	807.9
67.5°	557.3	566.2	689.7	722.6	723.5
70°	487.1	511.1	620.4	634.6	628.4
72.5°	416.0	457.7	544.0	536.8	531.5
75°	339.5	396.4	454.2	434.6	424.9
77.5°	270.2	334.2	358.2	330.6	315.5
80°	201.8	264.0	262.2	226.6	218.6
82.5°	136.0	184.0	157.3	128.0	112.0
85°	72.9	97.8	66.7	46.2	43.6
87.5°	27.6	23.1	17.8	16.0	16.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)