

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-TB-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 (G3-1810-975-9)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8RSRK-TB-50-HE-L850
Description: 8ft RSRK, 500 LUMEN PER FOOT 80CRI 5000K CCT WITH TRILOBE RIBBED LENS
Light Source: -
Ballast/Driver: -

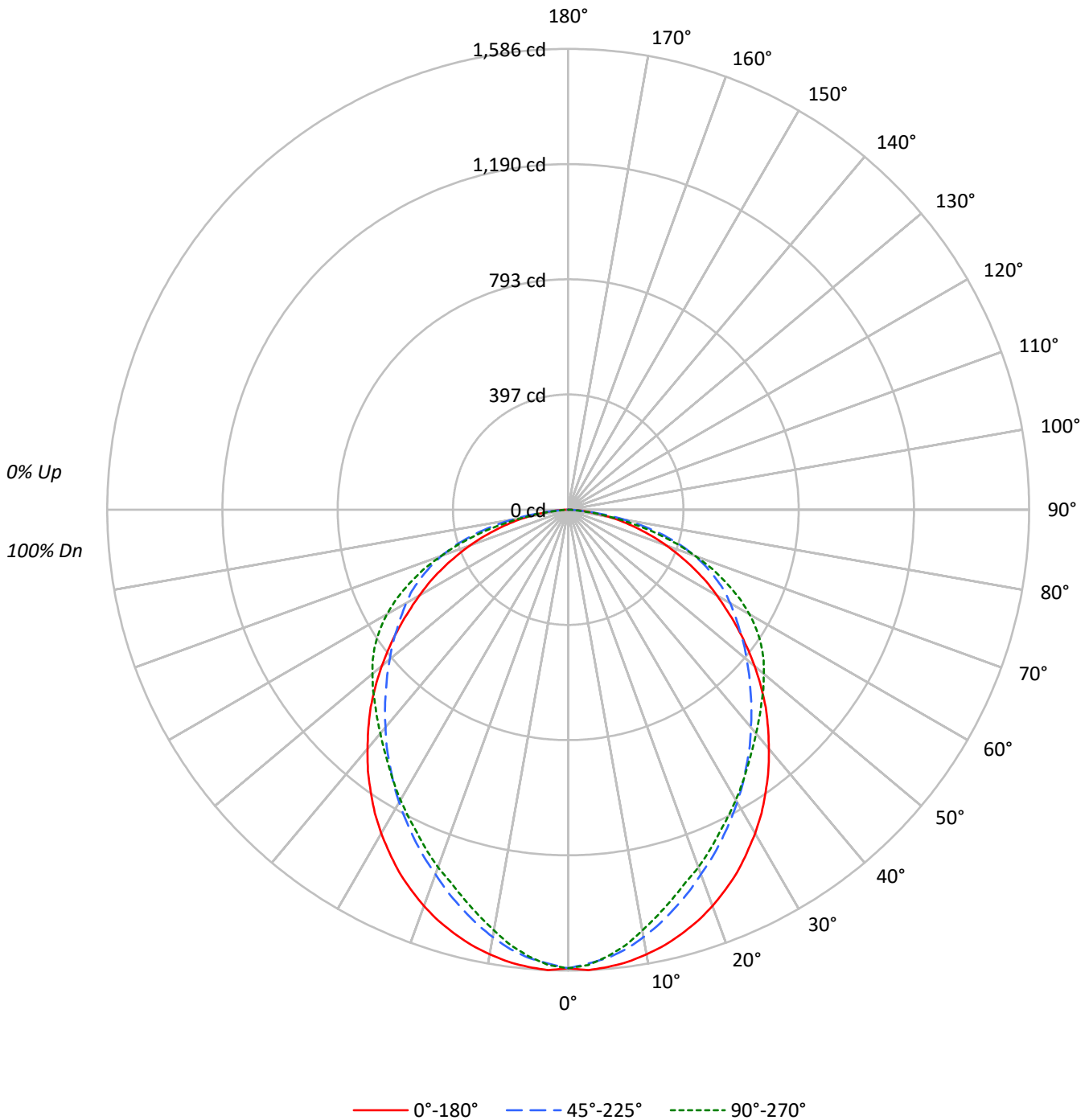
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4128.0 lumens
Efficiency: N/A
Efficacy: 288.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.1 / 1.26
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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	62	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2123	2123	2123
5°	2133	2092	2085
10°	2123	2041	2009
15°	2104	1977	1931
20°	2078	1912	1876
25°	2043	1858	1824
30°	1998	1808	1793
35°	1945	1758	1768
40°	1886	1718	1766
45°	1828	1689	1790
50°	1753	1677	1839
55°	1670	1688	1901
60°	1591	1731	1939
65°	1514	1785	1922
70°	1415	1823	1827
75°	1269	1769	1637
80°	1111	1502	1216
85°	834	794	514



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.1	3.6
10°-20°	404.7	9.8
20°-30°	588.7	14.3
30°-40°	688.6	16.7
40°-50°	707.8	17.1
50°-60°	658.5	16.0
60°-70°	535.6	13.0
70°-80°	324.4	7.9
80°-90°	72.7	1.8
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°	1140.5	27.6
0°-40°	1829.0	44.3
0°-60°	3195.3	77.4
0°-90°	4128.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4128.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1578	1578	1578	1578	1578	
5°	1580	1570	1549	1552	1544	150
15°	1510	1478	1420	1398	1386	426
25°	1376	1318	1251	1239	1228	633
35°	1184	1121	1070	1077	1077	741
45°	961	899	888	926	940	740
55°	712	673	720	793	811	637
65°	475	467	561	605	604	471
75°	244	290	340	325	315	262
85°	54	74	51	37	33	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1578.0	1578.0	1578.0	1578.0	1578.0
2.5°	1586.3	1579.1	1563.5	1572.3	1568.7
5°	1579.6	1570.2	1548.9	1552.0	1543.7
7.5°	1569.7	1556.2	1525.5	1519.3	1512.0
10°	1554.1	1534.4	1493.9	1484.0	1470.5
12.5°	1534.9	1509.4	1458.5	1440.9	1428.4
15°	1510.5	1478.3	1419.5	1398.2	1386.3
17.5°	1484.0	1444.0	1379.0	1357.2	1344.7
20°	1451.2	1405.5	1335.4	1317.2	1309.9
22.5°	1414.9	1362.4	1294.8	1278.7	1270.4
25°	1376.4	1318.2	1251.2	1238.7	1228.3
27.5°	1331.2	1272.0	1207.0	1198.2	1190.9
30°	1286.0	1225.2	1163.4	1157.2	1154.0
32.5°	1238.2	1172.2	1117.7	1116.6	1115.1
35°	1184.2	1121.3	1070.4	1077.1	1076.6
37.5°	1131.7	1067.3	1025.7	1037.6	1040.2
40°	1074.0	1011.1	977.9	998.2	1005.4
42.5°	1017.4	957.1	933.2	960.7	972.7
45°	960.7	898.9	887.5	926.4	940.5
47.5°	898.9	843.3	844.4	894.2	910.9
50°	837.6	785.6	801.2	859.4	878.6
52.5°	774.2	729.5	762.3	825.6	847.5
55°	711.9	672.9	719.6	792.9	810.6
57.5°	649.5	618.3	680.7	750.8	768.5
60°	591.3	564.3	643.3	707.2	720.7
62.5°	535.7	513.9	606.4	659.4	666.1
65°	475.4	466.6	560.6	605.3	603.8
67.5°	416.2	418.3	513.9	543.0	540.4
70°	359.6	376.2	463.5	475.4	464.5
72.5°	301.4	332.5	404.8	403.7	392.8
75°	244.2	290.5	340.3	325.3	314.9
77.5°	194.9	245.3	270.2	249.4	232.8
80°	143.4	196.4	193.8	170.4	156.9
82.5°	94.0	136.7	120.0	96.6	90.4
85°	54.0	74.3	51.4	37.4	33.3
87.5°	22.9	19.7	13.0	12.0	10.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)