

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: P289559

Luminaire Tested: **8RSRK-RM-50-HE-L850**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P289559
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1810-975-8)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8RSRK-RM-50-HE-L850
Description: 8ft RSRK, 500 LUMEN PER FOOT 80CRI 5000K CCT WITH ROUND MEDIUM LENS
Light Source: -
Ballast/Driver: -

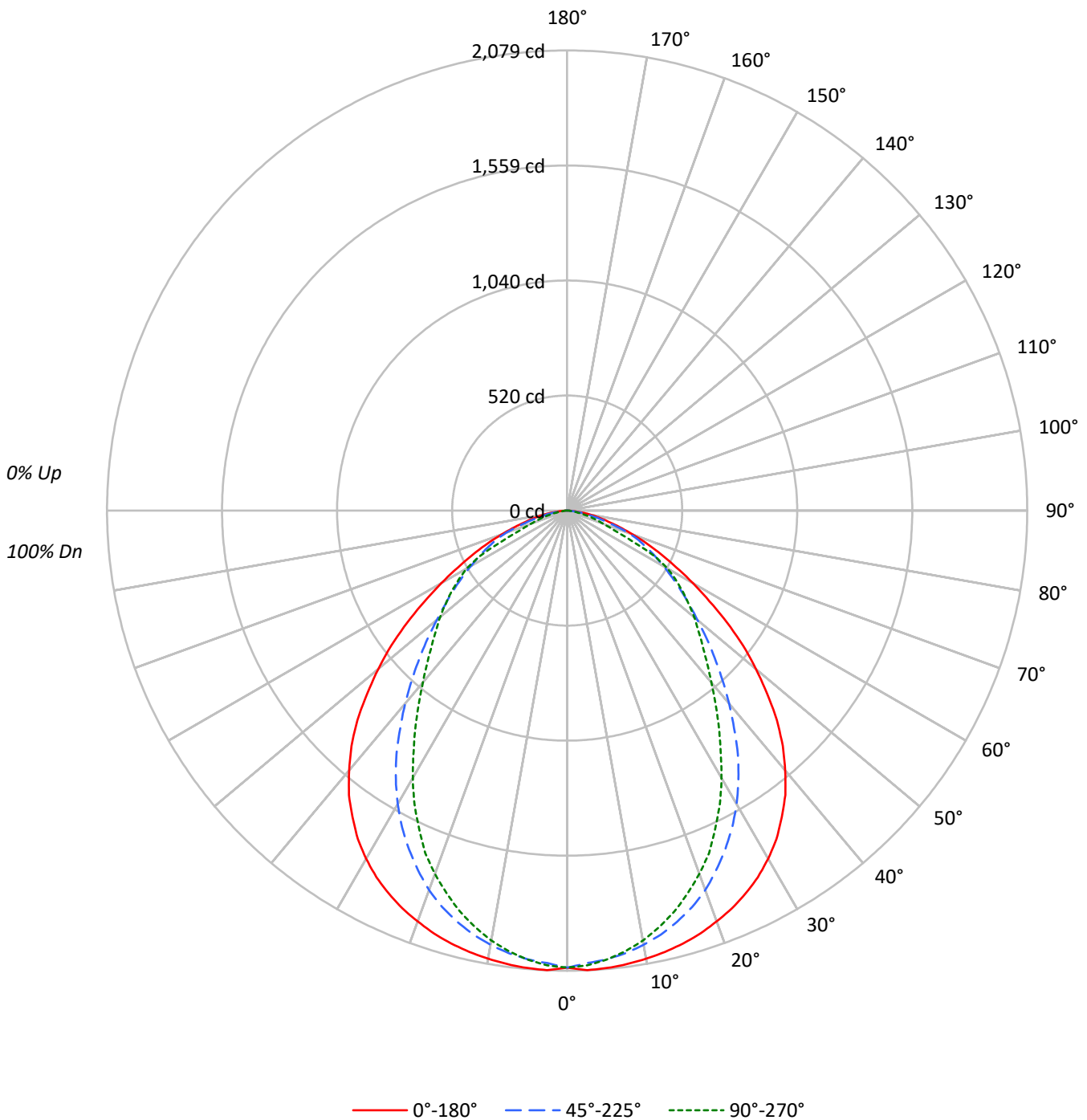
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4383.5 lumens
Efficiency: N/A
Efficacy: 306.5 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.05 / 1.18
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	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					100			
1	110	106	102	99	108	104	101	97	100	97	94	96	94	92	92	91	89					87				
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77					75				
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66					64				
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58					56				
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51					49				
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46					44				
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	45	41					39				
8	64	52	44	38	63	51	43	38	50	43	38	48	42	37	47	42	37					35				
9	60	48	40	34	59	47	39	34	46	39	34	45	39	34	44	38	34					32				
10	57	44	37	32	55	44	36	31	43	36	31	42	36	31	41	35	31					29				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2778	2778	2778
5°	2802	2749	2751
10°	2809	2722	2695
15°	2821	2678	2611
20°	2828	2613	2500
25°	2833	2508	2351
30°	2822	2379	2167
35°	2777	2210	1961
40°	2691	2000	1780
45°	2550	1794	1647
50°	2330	1608	1569
55°	2068	1469	1493
60°	1764	1353	1408
65°	1490	1267	1005
70°	1232	1153	682
75°	997	848	534
80°	828	605	329
85°	571	253	222



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.3	4.4
10°-20°	546.0	12.5
20°-30°	790.7	18.0
30°-40°	867.9	19.8
40°-50°	784.2	17.9
50°-60°	611.4	13.9
60°-70°	387.0	8.8
70°-80°	169.5	3.9
80°-90°	32.5	0.7
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°	1531.0	34.9
0°-40°	2398.9	54.7
0°-60°	3794.5	86.6
0°-90°	4383.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4383.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2065	2065	2065	2065	2065	
5°	2074	2061	2035	2046	2037	197
15°	2025	1987	1922	1899	1874	572
25°	1909	1825	1689	1626	1584	879
35°	1691	1539	1346	1238	1194	1056
45°	1340	1128	943	886	865	1028
55°	882	707	626	635	636	788
65°	468	389	398	381	316	469
75°	192	197	163	117	103	210
85°	37	35	16	15	14	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2064.8	2064.8	2064.8	2064.8	2064.8
2.5°	2078.6	2066.9	2046.4	2062.1	2056.6
5°	2074.4	2060.7	2035.4	2046.4	2036.8
7.5°	2066.9	2050.5	2016.9	2020.3	2008.7
10°	2055.9	2034.0	1992.2	1988.1	1972.4
12.5°	2042.2	2012.8	1961.4	1947.0	1926.5
15°	2025.1	1987.4	1922.4	1899.1	1874.4
17.5°	2003.2	1955.2	1877.8	1840.1	1812.1
20°	1975.1	1917.6	1825.1	1775.7	1746.3
22.5°	1945.6	1874.4	1759.3	1707.9	1675.0
25°	1908.6	1825.1	1689.4	1625.7	1583.9
27.5°	1866.9	1768.2	1614.1	1535.3	1493.5
30°	1816.2	1701.8	1531.2	1436.6	1394.8
32.5°	1760.0	1626.4	1440.7	1340.0	1291.4
35°	1690.8	1539.4	1345.5	1238.0	1194.1
37.5°	1619.5	1445.5	1238.6	1138.6	1100.9
40°	1531.9	1346.2	1138.6	1046.8	1013.2
42.5°	1442.1	1235.9	1038.6	962.5	935.1
45°	1340.0	1127.7	942.7	886.5	865.3
47.5°	1225.6	1020.1	854.3	819.4	804.3
50°	1113.3	912.5	768.0	754.3	749.5
52.5°	1001.6	807.0	693.3	694.7	691.9
55°	881.7	707.0	626.2	635.1	636.4
57.5°	762.5	611.8	563.1	579.6	581.0
60°	655.6	530.3	502.9	522.7	523.4
62.5°	557.0	454.2	448.0	467.2	444.6
65°	467.9	389.1	398.0	380.9	315.8
67.5°	388.4	335.0	349.4	266.5	224.0
70°	313.1	282.3	293.2	198.7	173.3
72.5°	247.3	238.4	222.0	154.8	135.0
75°	191.8	197.3	163.1	117.1	102.8
77.5°	146.6	160.3	118.5	84.3	70.6
80°	106.9	119.9	78.1	50.7	42.5
82.5°	70.6	75.4	41.1	26.0	22.6
85°	37.0	34.9	16.4	15.1	14.4
87.5°	15.8	8.9	8.2	6.9	6.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)