

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: P289557

Luminaire Tested: **8RSRK-RM-50-HE-L835**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P289557  
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-L835  
Description: 8ft RSRK, 500 LUMEN PER FOOT 80CRI 3500K CCT WITH ROUND MEDIUM LENS  
Light Source: -  
Ballast/Driver: -

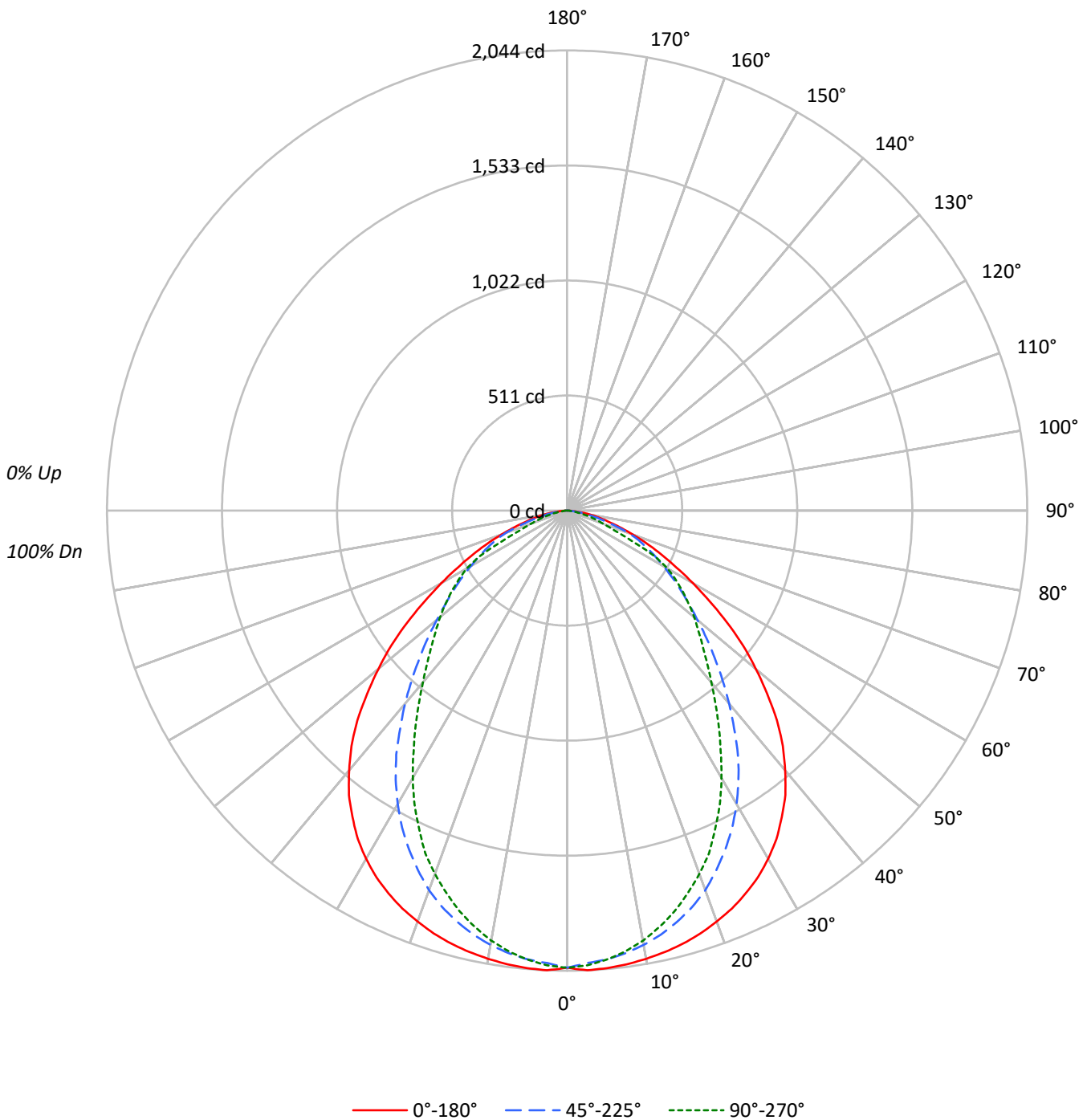
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4310.4 lumens  
Efficiency: N/A  
Efficacy: 301.4 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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	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°	2732	2732	2732
5°	2755	2703	2705
10°	2762	2676	2650
15°	2774	2633	2567
20°	2781	2570	2459
25°	2786	2466	2312
30°	2775	2339	2131
35°	2731	2173	1929
40°	2646	1966	1750
45°	2507	1764	1619
50°	2291	1581	1543
55°	2034	1444	1468
60°	1735	1331	1385
65°	1465	1246	989
70°	1211	1134	670
75°	980	833	525
80°	814	595	324
85°	562	250	218



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	191.0	4.4
10°-20°	536.9	12.5
20°-30°	777.6	18.0
30°-40°	853.4	19.8
40°-50°	771.1	17.9
50°-60°	601.2	13.9
60°-70°	380.6	8.8
70°-80°	166.6	3.9
80°-90°	32.0	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°	1505.5	34.9
0°-40°	2358.9	54.7
0°-60°	3731.2	86.6
0°-90°	4310.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4310.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2030	2030	2030	2030	2030	
5°	2040	2026	2002	2012	2003	194
15°	1991	1954	1890	1867	1843	562
25°	1877	1795	1661	1599	1558	865
35°	1663	1514	1323	1217	1174	1038
45°	1318	1109	927	872	851	1010
55°	867	695	616	624	626	775
65°	460	383	391	375	311	461
75°	189	194	160	115	101	206
85°	36	34	16	15	14	47
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2030.4	2030.4	2030.4	2030.4	2030.4
2.5°	2043.9	2032.4	2012.2	2027.7	2022.3
5°	2039.8	2026.4	2001.5	2012.2	2002.8
7.5°	2032.4	2016.3	1983.3	1986.6	1975.2
10°	2021.7	2000.1	1959.0	1955.0	1939.5
12.5°	2008.2	1979.2	1928.7	1914.5	1894.3
15°	1991.3	1954.3	1890.3	1867.4	1843.1
17.5°	1969.8	1922.6	1846.5	1809.5	1781.8
20°	1942.2	1885.6	1794.6	1746.1	1717.2
22.5°	1913.2	1843.1	1730.0	1679.4	1647.1
25°	1876.8	1794.6	1661.3	1598.6	1557.5
27.5°	1835.7	1738.7	1587.1	1509.7	1468.6
30°	1785.9	1673.4	1505.6	1412.7	1371.6
32.5°	1730.6	1599.3	1416.7	1317.7	1269.9
35°	1662.6	1513.7	1323.1	1217.3	1174.2
37.5°	1592.5	1421.4	1218.0	1119.6	1082.6
40°	1506.3	1323.7	1119.6	1029.4	996.3
42.5°	1418.1	1215.3	1021.3	946.5	919.5
45°	1317.7	1108.8	927.0	871.7	850.8
47.5°	1205.2	1003.1	840.1	805.7	790.9
50°	1094.7	897.3	755.2	741.7	737.0
52.5°	984.9	793.6	681.7	683.1	680.4
55°	867.0	695.2	615.7	624.5	625.8
57.5°	749.8	601.6	553.8	569.9	571.3
60°	644.7	521.4	494.5	514.0	514.7
62.5°	547.7	446.6	440.6	459.4	437.2
65°	460.1	382.6	391.4	374.6	310.6
67.5°	382.0	329.4	343.6	262.1	220.3
70°	307.9	277.5	288.3	195.4	170.4
72.5°	243.2	234.4	218.3	152.2	132.7
75°	188.6	194.0	160.3	115.2	101.0
77.5°	144.2	157.6	116.5	82.9	69.4
80°	105.1	117.9	76.8	49.9	41.8
82.5°	69.4	74.1	40.4	25.6	22.2
85°	36.4	34.4	16.2	14.8	14.1
87.5°	15.5	8.8	8.1	6.7	6.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)