

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: P289554

Luminaire Tested: **8RSRK-RM-50-HE-L940**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P289554
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-L940
Description: 8ft RSRK, 500 LUMEN PER FOOT 90CRI 4000K CCT WITH ROUND MEDIUM LENS
Light Source: -
Ballast/Driver: -

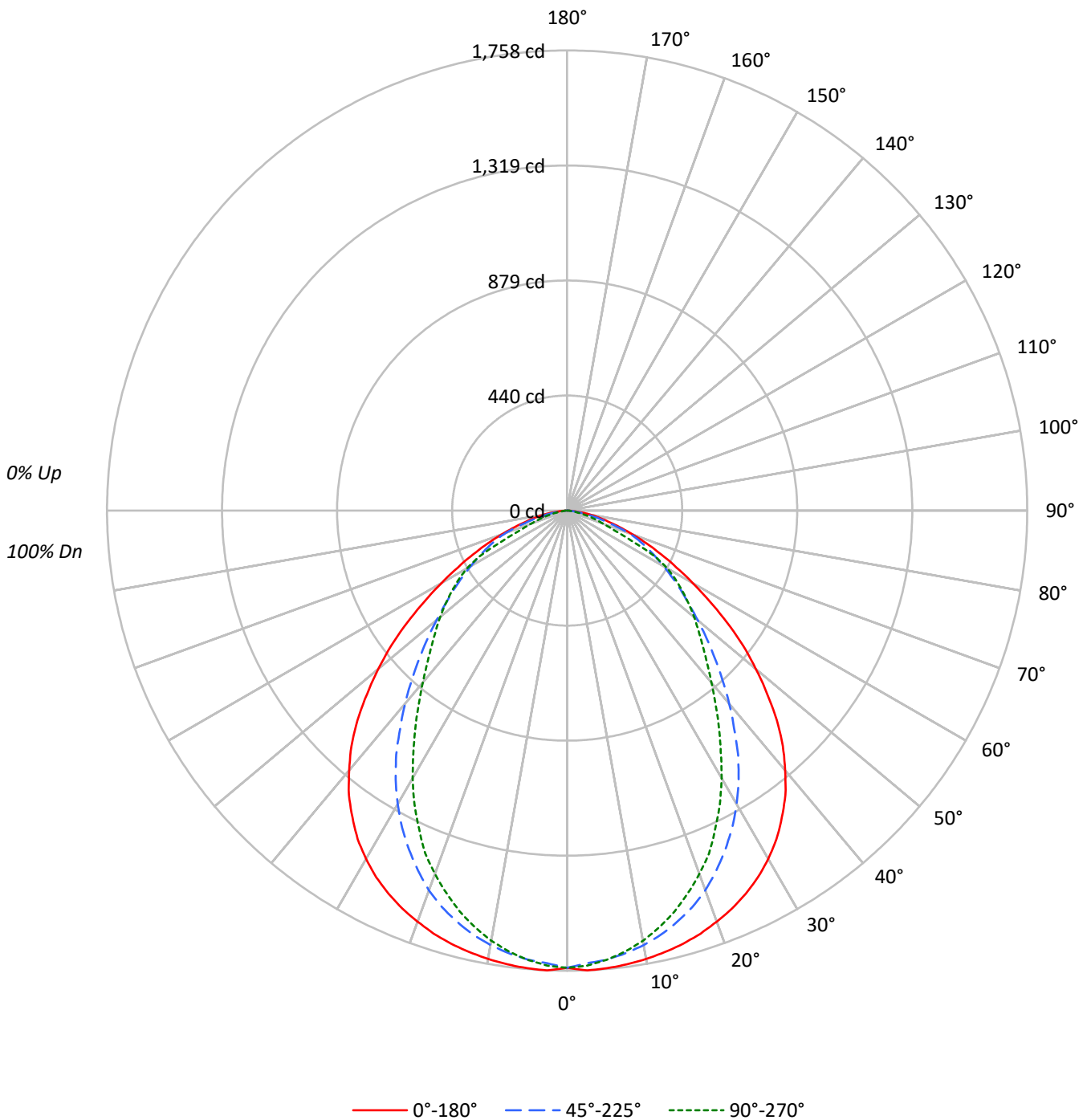
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3708.4 lumens
Efficiency: N/A
Efficacy: 259.3 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°	2350	2350	2350
5°	2370	2326	2327
10°	2376	2303	2280
15°	2386	2265	2209
20°	2392	2211	2115
25°	2397	2122	1989
30°	2387	2013	1833
35°	2349	1870	1659
40°	2276	1692	1506
45°	2157	1517	1393
50°	1971	1360	1327
55°	1750	1243	1263
60°	1493	1145	1192
65°	1260	1072	851
70°	1042	976	577
75°	844	717	452
80°	700	512	278
85°	483	215	188



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.4	4.4
10°-20°	461.9	12.5
20°-30°	669.0	18.0
30°-40°	734.2	19.8
40°-50°	663.4	17.9
50°-60°	517.3	13.9
60°-70°	327.4	8.8
70°-80°	143.4	3.9
80°-90°	27.5	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°	1295.2	34.9
0°-40°	2029.5	54.7
0°-60°	3210.1	86.6
0°-90°	3708.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3708.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1747	1747	1747	1747	1747	
5°	1755	1743	1722	1731	1723	167
15°	1713	1681	1626	1607	1586	484
25°	1615	1544	1429	1375	1340	744
35°	1430	1302	1138	1047	1010	893
45°	1134	954	798	750	732	869
55°	746	598	530	537	538	666
65°	396	329	337	322	267	397
75°	162	167	138	99	87	177
85°	31	30	14	13	12	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1746.9	1746.9	1746.9	1746.9	1746.9
2.5°	1758.5	1748.6	1731.2	1744.5	1739.9
5°	1755.0	1743.4	1721.9	1731.2	1723.1
7.5°	1748.6	1734.7	1706.3	1709.2	1699.3
10°	1739.3	1720.8	1685.4	1681.9	1668.6
12.5°	1727.7	1702.8	1659.3	1647.2	1629.8
15°	1713.2	1681.4	1626.3	1606.6	1585.7
17.5°	1694.7	1654.1	1588.6	1556.8	1533.0
20°	1670.9	1622.3	1544.0	1502.3	1477.4
22.5°	1646.0	1585.7	1488.4	1444.9	1417.1
25°	1614.7	1544.0	1429.3	1375.3	1340.0
27.5°	1579.4	1495.9	1365.5	1298.8	1263.5
30°	1536.5	1439.7	1295.4	1215.4	1180.0
32.5°	1488.9	1375.9	1218.9	1133.7	1092.5
35°	1430.4	1302.3	1138.3	1047.3	1010.2
37.5°	1370.1	1222.9	1047.9	963.3	931.4
40°	1295.9	1138.9	963.3	885.6	857.2
42.5°	1220.0	1045.6	878.6	814.3	791.1
45°	1133.7	954.0	797.5	750.0	732.0
47.5°	1036.9	863.0	722.7	693.2	680.4
50°	941.8	772.0	649.7	638.1	634.1
52.5°	847.3	682.7	586.5	587.7	585.4
55°	745.9	598.1	529.7	537.3	538.4
57.5°	645.1	517.6	476.4	490.3	491.5
60°	554.7	448.6	425.4	442.2	442.8
62.5°	471.2	384.3	379.0	395.3	376.1
65°	395.9	329.2	336.7	322.2	267.2
67.5°	328.6	283.4	295.6	225.5	189.5
70°	264.9	238.8	248.1	168.1	146.6
72.5°	209.2	201.7	187.8	131.0	114.2
75°	162.3	166.9	137.9	99.1	86.9
77.5°	124.0	135.6	100.3	71.3	59.7
80°	90.4	101.4	66.1	42.9	35.9
82.5°	59.7	63.8	34.8	22.0	19.1
85°	31.3	29.6	13.9	12.8	12.2
87.5°	13.3	7.5	7.0	5.8	5.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)