

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-50-HE-L840**

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 (G3-1811-041-2)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8RSRK-50-HE-L840
Description: 8ft RSRK, 500 LUMEN PER FOOT 80CRI 4000K CCT WITH NO LENS
Light Source: -
Ballast/Driver: -

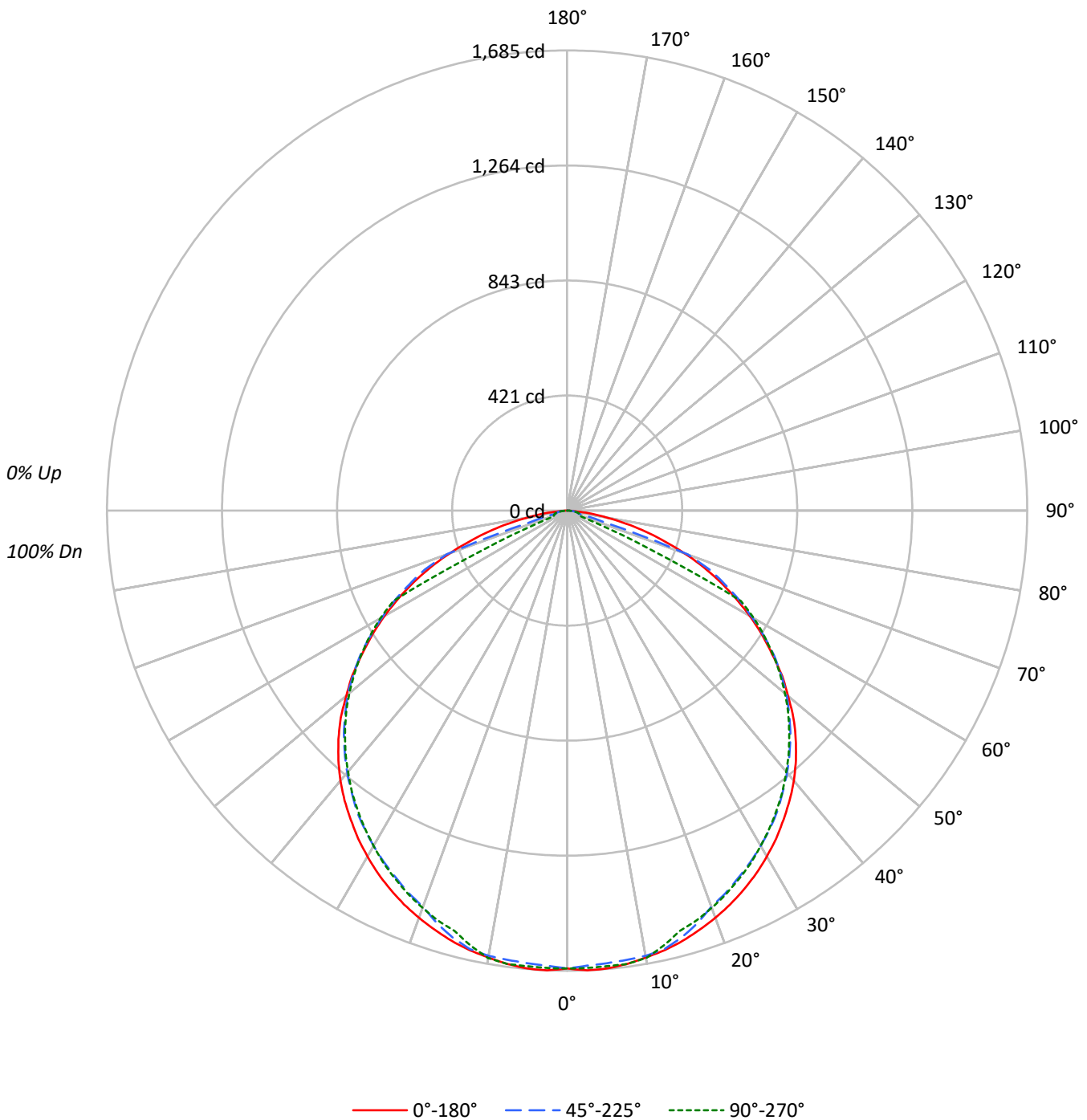
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4615.8 lumens
Efficiency: N/A
Efficacy: 322.8 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.26 / 1.4
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	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	74	72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	65	72	67	63	61
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2256	2256	2256
5°	2273	2247	2262
10°	2270	2261	2273
15°	2273	2255	2219
20°	2272	2211	2217
25°	2273	2203	2210
30°	2272	2202	2202
35°	2269	2205	2198
40°	2268	2200	2193
45°	2253	2200	2188
50°	2210	2196	2178
55°	2150	2170	2160
60°	2080	2103	2126
65°	1970	2025	1070
70°	1803	1845	202
75°	1548	222	245
80°	1161	282	282
85°	594	296	264



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.3	3.5
10°-20°	456.3	9.9
20°-30°	693.7	15.0
30°-40°	845.0	18.3
40°-50°	894.2	19.4
50°-60°	820.2	17.8
60°-70°	553.2	12.0
70°-80°	167.2	3.6
80°-90°	26.7	0.6
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°	1309.3	28.4
0°-40°	2154.4	46.7
0°-60°	3868.7	83.8
0°-90°	4615.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4615.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1677	1677	1677	1677	1677	
5°	1683	1670	1664	1679	1674	160
15°	1632	1623	1619	1606	1593	461
25°	1531	1529	1484	1499	1488	706
35°	1381	1351	1343	1347	1338	865
45°	1184	1156	1156	1158	1150	912
55°	916	904	925	925	921	820
65°	619	610	636	644	336	611
75°	298	300	43	47	47	315
85°	38	19	19	17	17	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1676.7	1676.7	1676.7	1676.7	1676.7
2.5°	1685.3	1672.4	1668.1	1678.8	1676.7
5°	1683.1	1670.3	1663.8	1678.8	1674.5
7.5°	1674.5	1661.7	1659.6	1676.7	1674.5
10°	1661.7	1653.1	1655.2	1670.3	1663.8
12.5°	1648.8	1640.3	1644.6	1640.3	1631.7
15°	1631.7	1623.2	1618.9	1606.0	1593.2
17.5°	1610.3	1606.0	1584.6	1580.3	1573.9
20°	1586.7	1586.7	1543.9	1556.8	1548.2
22.5°	1561.0	1561.0	1516.1	1528.9	1520.4
25°	1531.1	1528.9	1483.9	1499.0	1488.3
27.5°	1499.0	1488.3	1451.8	1464.7	1456.1
30°	1462.6	1443.3	1417.6	1426.1	1417.6
32.5°	1424.0	1396.2	1381.2	1387.6	1379.0
35°	1381.2	1351.2	1342.7	1346.9	1338.3
37.5°	1338.3	1306.2	1297.7	1304.1	1295.5
40°	1291.3	1261.2	1252.7	1257.0	1248.4
42.5°	1239.9	1214.2	1205.6	1207.7	1201.3
45°	1184.1	1156.3	1156.3	1158.5	1149.9
47.5°	1124.2	1100.7	1102.8	1104.9	1098.5
50°	1055.7	1038.5	1049.3	1051.4	1040.7
52.5°	991.5	974.3	987.1	991.5	982.9
55°	916.5	903.7	925.1	925.1	920.8
57.5°	845.9	833.0	854.4	863.0	856.5
60°	773.0	760.2	781.6	796.6	790.1
62.5°	695.9	685.2	710.9	730.2	717.4
65°	618.8	610.3	636.0	644.5	336.2
67.5°	539.6	533.2	563.2	203.5	53.5
70°	458.3	451.9	469.0	51.4	51.4
72.5°	374.8	376.9	149.9	49.3	49.3
75°	297.7	299.8	42.8	47.1	47.1
77.5°	220.6	224.8	40.7	42.8	42.8
80°	149.9	109.2	36.4	36.4	36.4
82.5°	89.9	25.7	27.8	27.8	25.7
85°	38.5	19.2	19.2	17.1	17.1
87.5°	12.8	8.6	8.6	6.4	6.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)