

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: P289555

Luminaire Tested: **8RSRK-RM-50-HE-L950**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P289555
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-L950
Description: 8ft RSRK, 500 LUMEN PER FOOT 90CRI 5000K CCT WITH ROUND MEDIUM LENS
Light Source: -
Ballast/Driver: -

Summary

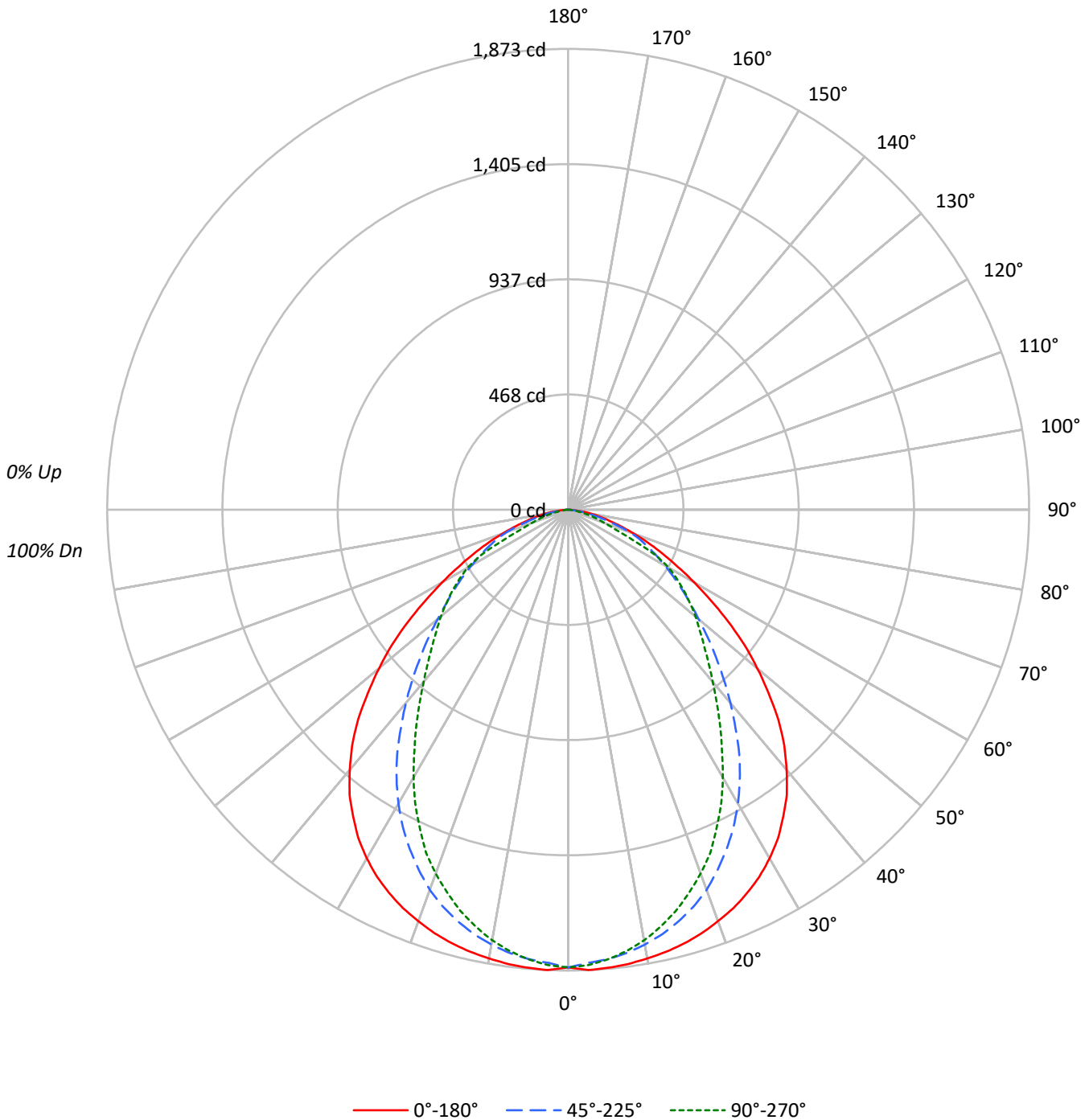
Lumens per Lamp: N/A
Luminaire Lumens: 3949.6 lumens
Efficiency: N/A
Efficacy: 276.2 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.05 / 1.18
Luminous Opening: Rectangular (W 1' x L: 8' x H: 0')
CIE Type: Direct

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°	2503	2503	2503
5°	2524	2477	2479
10°	2531	2452	2428
15°	2542	2413	2352
20°	2548	2355	2253
25°	2553	2260	2119
30°	2542	2143	1952
35°	2502	1991	1767
40°	2424	1802	1603
45°	2297	1616	1483
50°	2100	1449	1414
55°	1863	1323	1345
60°	1590	1219	1269
65°	1342	1142	906
70°	1110	1039	614
75°	898	764	481
80°	746	545	297
85°	514	228	201



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.1	4.4
10°-20°	491.9	12.5
20°-30°	712.5	18.0
30°-40°	782.0	19.8
40°-50°	706.5	17.9
50°-60°	550.9	13.9
60°-70°	348.7	8.8
70°-80°	152.7	3.9
80°-90°	29.3	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°	1379.4	34.9
0°-40°	2161.4	54.7
0°-60°	3418.8	86.6
0°-90°	3949.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3949.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1860	1860	1860	1860	1860	
5°	1869	1857	1834	1844	1835	178
15°	1825	1791	1732	1711	1689	515
25°	1720	1644	1522	1465	1427	792
35°	1523	1387	1212	1115	1076	951
45°	1207	1016	849	799	780	926
55°	794	637	564	572	573	710
65°	422	351	359	343	285	422
75°	173	178	147	106	93	189
85°	33	32	15	14	13	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1860.4	1860.4	1860.4	1860.4	1860.4
2.5°	1872.8	1862.3	1843.8	1858.0	1853.0
5°	1869.1	1856.7	1833.9	1843.8	1835.1
7.5°	1862.3	1847.5	1817.2	1820.3	1809.8
10°	1852.4	1832.7	1795.0	1791.3	1777.1
12.5°	1840.1	1813.5	1767.2	1754.3	1735.7
15°	1824.6	1790.7	1732.0	1711.1	1688.8
17.5°	1804.9	1761.7	1691.9	1658.0	1632.7
20°	1779.6	1727.7	1644.4	1599.9	1573.4
22.5°	1753.0	1688.8	1585.1	1538.8	1509.2
25°	1719.7	1644.4	1522.2	1464.8	1427.1
27.5°	1682.0	1593.2	1454.3	1383.3	1345.6
30°	1636.4	1533.3	1379.6	1294.4	1256.7
32.5°	1585.7	1465.4	1298.1	1207.4	1163.5
35°	1523.4	1387.0	1212.3	1115.4	1075.9
37.5°	1459.2	1302.4	1116.0	1025.9	991.9
40°	1380.2	1212.9	1025.9	943.2	912.9
42.5°	1299.3	1113.5	935.8	867.3	842.6
45°	1207.4	1016.0	849.4	798.7	779.6
47.5°	1104.3	919.1	769.7	738.2	724.7
50°	1003.1	822.2	692.0	679.6	675.3
52.5°	902.4	727.1	624.7	625.9	623.4
55°	794.4	637.0	564.2	572.2	573.4
57.5°	687.0	551.2	507.4	522.2	523.4
60°	590.7	477.8	453.1	471.0	471.6
62.5°	501.8	409.2	403.7	421.0	400.6
65°	421.6	350.6	358.6	343.2	284.6
67.5°	350.0	301.8	314.8	240.1	201.8
70°	282.1	254.3	264.2	179.0	156.2
72.5°	222.8	214.8	200.0	139.5	121.6
75°	172.8	177.8	146.9	105.6	92.6
77.5°	132.1	144.4	106.8	75.9	63.6
80°	96.3	108.0	70.4	45.7	38.3
82.5°	63.6	67.9	37.0	23.5	20.4
85°	33.3	31.5	14.8	13.6	13.0
87.5°	14.2	8.0	7.4	6.2	6.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)