

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: P289491

Luminaire Tested: **4RSRK-RM-100-HE-L940**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P289491
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: 4RSRK-RM-100-HE-L940
Description: 4ft RSRK, 1000 LUMEN PER FOOT 90CRI 4000K CCT WITH ROUND MEDIUM LENS
Light Source: -
Ballast/Driver: -

Summary

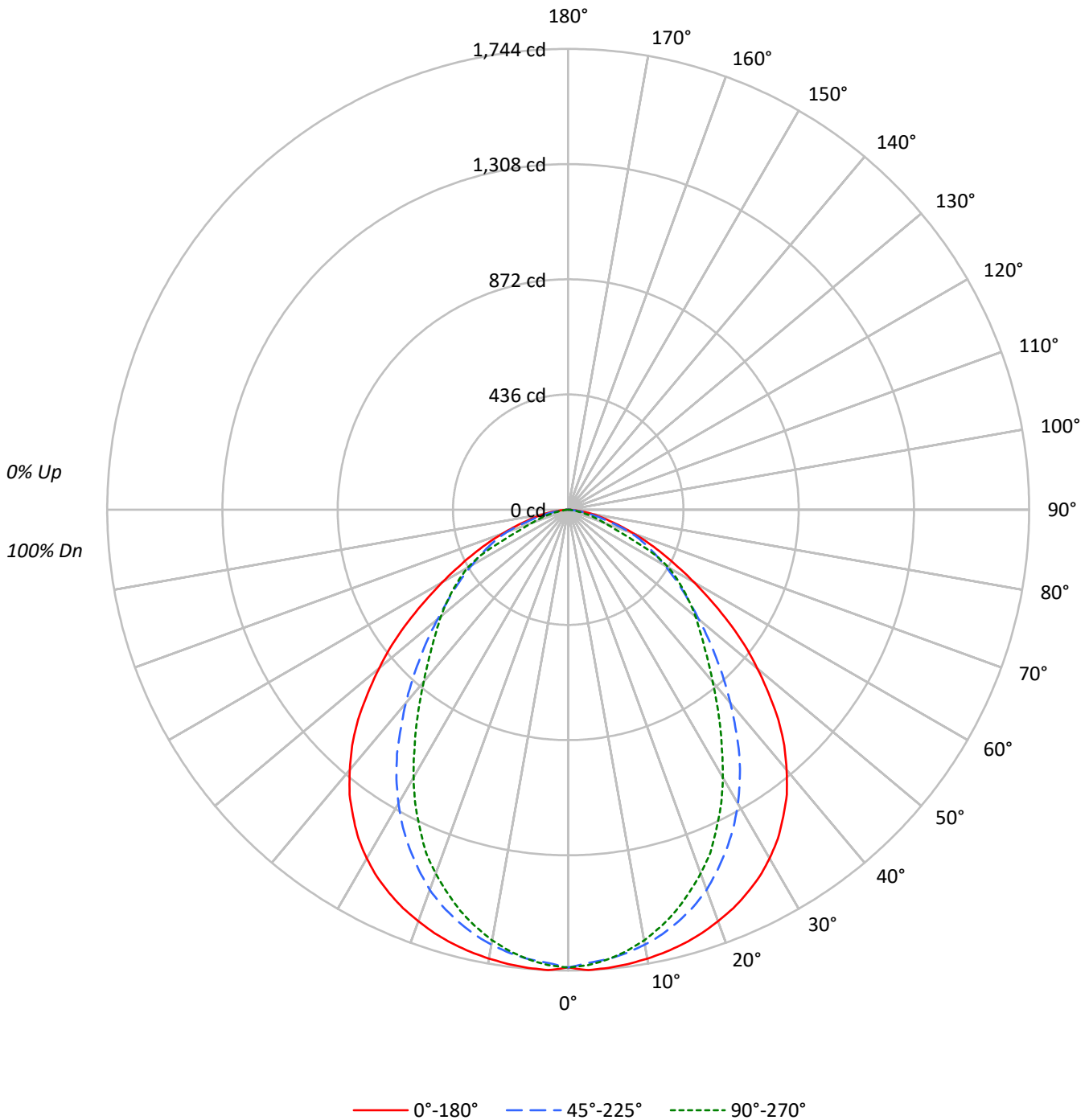
Lumens per Lamp: N/A
Luminaire Lumens: 3677.9 lumens
Efficiency: N/A
Efficacy: 127.7 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.05 / 1.18
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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

TEST NUMBER: P289491

CATALOG NUMBER: 4RSRK-RM-100-HE-L940

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					87			
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75					75			
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64					64			
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56					56			
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49					49			
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44					44			
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	45	41	39					39			
8	64	52	44	38	63	51	43	38	50	43	38	48	42	37	47	42	37	35					35			
9	60	48	40	34	59	47	39	34	46	39	34	45	39	34	44	38	34	32					32			
10	57	44	37	32	55	44	36	31	43	36	31	42	36	31	41	35	31	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4662	4662	4662
5°	4702	4613	4616
10°	4714	4567	4522
15°	4734	4493	4381
20°	4746	4385	4196
25°	4755	4209	3946
30°	4735	3992	3636
35°	4660	3709	3291
40°	4515	3356	2986
45°	4279	3010	2763
50°	3911	2698	2632
55°	3471	2465	2505
60°	2961	2271	2364
65°	2500	2127	1687
70°	2067	1936	1144
75°	1673	1422	896
80°	1390	1015	552
85°	957	426	374



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.0	4.4
10°-20°	458.1	12.5
20°-30°	663.5	18.0
30°-40°	728.2	19.8
40°-50°	657.9	17.9
50°-60°	513.0	13.9
60°-70°	324.8	8.8
70°-80°	142.2	3.9
80°-90°	27.3	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°	1284.6	34.9
0°-40°	2012.7	54.7
0°-60°	3183.7	86.6
0°-90°	3677.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3677.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1732	1732	1732	1732	1732	
5°	1740	1729	1708	1717	1709	166
15°	1699	1668	1613	1593	1573	480
25°	1601	1531	1418	1364	1329	738
35°	1419	1292	1129	1039	1002	886
45°	1124	946	791	744	726	862
55°	740	593	525	533	534	661
65°	393	326	334	320	265	393
75°	161	166	137	98	86	176
85°	31	29	14	13	12	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1732.5	1732.5	1732.5	1732.5	1732.5
2.5°	1744.0	1734.2	1717.0	1730.2	1725.6
5°	1740.5	1729.0	1707.8	1717.0	1708.9
7.5°	1734.2	1720.4	1692.2	1695.1	1685.3
10°	1725.0	1706.6	1671.5	1668.1	1654.9
12.5°	1713.5	1688.8	1645.7	1633.6	1616.4
15°	1699.1	1667.5	1612.9	1593.4	1572.7
17.5°	1680.7	1640.5	1575.6	1543.9	1520.4
20°	1657.2	1608.9	1531.3	1489.9	1465.2
22.5°	1632.5	1572.7	1476.1	1433.0	1405.4
25°	1601.4	1531.3	1417.5	1364.0	1329.0
27.5°	1566.4	1483.6	1354.2	1288.1	1253.1
30°	1523.8	1427.8	1284.7	1205.4	1170.3
32.5°	1476.7	1364.6	1208.8	1124.3	1083.5
35°	1418.6	1291.6	1128.9	1038.7	1001.9
37.5°	1358.8	1212.8	1039.3	955.3	923.7
40°	1285.3	1129.5	955.3	878.3	850.1
42.5°	1210.0	1037.0	871.4	807.6	784.6
45°	1124.3	946.1	790.9	743.8	726.0
47.5°	1028.3	855.9	716.8	687.5	674.8
50°	934.1	765.6	644.4	632.9	628.8
52.5°	840.4	677.1	581.7	582.9	580.6
55°	739.8	593.2	525.4	532.8	534.0
57.5°	639.8	513.3	472.5	486.3	487.4
60°	550.1	444.9	421.9	438.6	439.2
62.5°	467.3	381.1	375.9	392.0	373.1
65°	392.6	326.5	334.0	319.6	265.0
67.5°	325.9	281.1	293.2	223.6	188.0
70°	262.7	236.8	246.0	166.7	145.4
72.5°	207.5	200.0	186.2	129.9	113.2
75°	160.9	165.5	136.8	98.3	86.2
77.5°	123.0	134.5	99.4	70.7	59.2
80°	89.7	100.6	65.5	42.5	35.6
82.5°	59.2	63.2	34.5	21.8	19.0
85°	31.0	29.3	13.8	12.6	12.1
87.5°	13.2	7.5	6.9	5.7	5.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)