

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: P289489

Luminaire Tested: **4RSRK-RM-100-HE-L930**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P289489
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-L930
Description: 4ft RSRK, 1000 LUMEN PER FOOT 90CRI 3000K CCT WITH ROUND MEDIUM LENS
Light Source: -
Ballast/Driver: -

Summary

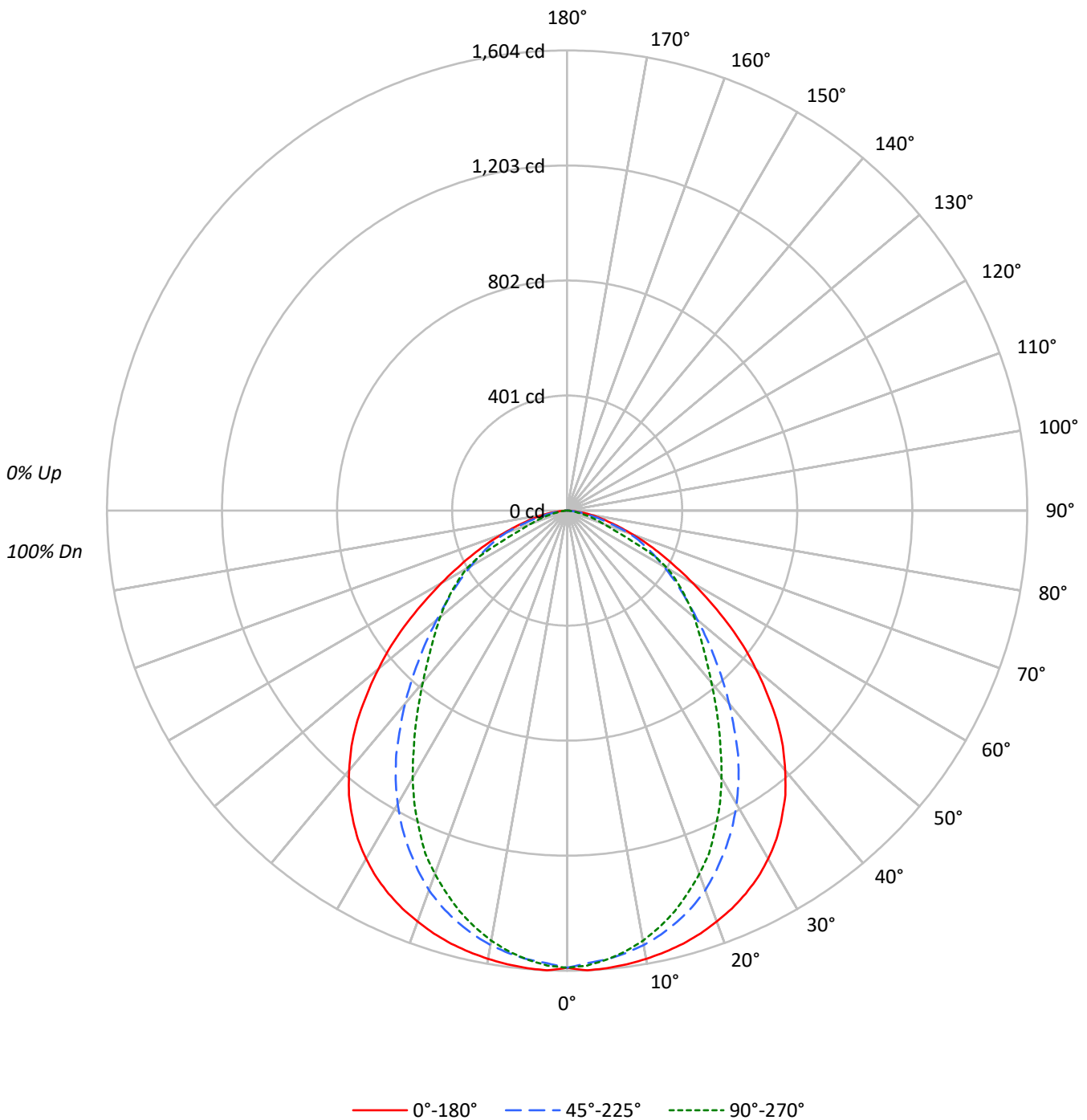
Lumens per Lamp: N/A
Luminaire Lumens: 3383.0 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.05 / 1.18
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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: P289489

CATALOG NUMBER: 4RSRK-RM-100-HE-L930

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				
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°	4288	4288	4288
5°	4324	4243	4246
10°	4336	4201	4159
15°	4354	4133	4030
20°	4365	4033	3859
25°	4374	3871	3630
30°	4355	3672	3345
35°	4287	3411	3027
40°	4153	3087	2747
45°	3936	2769	2541
50°	3597	2481	2421
55°	3193	2267	2305
60°	2723	2089	2174
65°	2299	1956	1552
70°	1901	1781	1053
75°	1539	1308	824
80°	1278	934	508
85°	883	392	343



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.9	4.4
10°-20°	421.3	12.5
20°-30°	610.2	18.0
30°-40°	669.8	19.8
40°-50°	605.2	17.9
50°-60°	471.9	13.9
60°-70°	298.7	8.8
70°-80°	130.8	3.9
80°-90°	25.1	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°	1181.5	34.9
0°-40°	1851.3	54.7
0°-60°	2928.4	86.6
0°-90°	3383.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3383.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1594	1594	1594	1594	1594	
5°	1601	1590	1571	1579	1572	152
15°	1563	1534	1484	1466	1447	441
25°	1473	1408	1304	1255	1222	679
35°	1305	1188	1038	955	922	815
45°	1034	870	728	684	668	793
55°	680	546	483	490	491	608
65°	361	300	307	294	244	362
75°	148	152	126	90	79	162
85°	29	27	13	12	11	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1593.5	1593.5	1593.5	1593.5	1593.5
2.5°	1604.1	1595.1	1579.3	1591.4	1587.2
5°	1600.9	1590.4	1570.8	1579.3	1571.9
7.5°	1595.1	1582.4	1556.5	1559.2	1550.2
10°	1586.7	1569.7	1537.5	1534.3	1522.2
12.5°	1576.1	1553.4	1513.7	1502.6	1486.7
15°	1562.9	1533.8	1483.6	1465.6	1446.6
17.5°	1546.0	1508.9	1449.2	1420.1	1398.4
20°	1524.3	1479.9	1408.5	1370.4	1347.7
22.5°	1501.5	1446.6	1357.7	1318.1	1292.7
25°	1473.0	1408.5	1303.8	1254.6	1222.4
27.5°	1440.7	1364.6	1245.6	1184.8	1152.6
30°	1401.6	1313.3	1181.7	1108.7	1076.5
32.5°	1358.3	1255.2	1111.9	1034.2	996.6
35°	1304.9	1188.0	1038.4	955.4	921.5
37.5°	1249.9	1115.6	955.9	878.7	849.6
40°	1182.2	1038.9	878.7	807.9	782.0
42.5°	1112.9	953.8	801.5	742.8	721.7
45°	1034.2	870.3	727.5	684.2	667.8
47.5°	945.9	787.3	659.3	632.3	620.7
50°	859.2	704.2	592.7	582.1	578.4
52.5°	773.0	622.8	535.1	536.1	534.0
55°	680.5	545.6	483.2	490.1	491.2
57.5°	588.5	472.1	434.6	447.3	448.3
60°	506.0	409.2	388.1	403.4	403.9
62.5°	429.8	350.5	345.8	360.6	343.1
65°	361.1	300.3	307.2	294.0	243.7
67.5°	299.8	258.5	269.6	205.7	172.9
70°	241.6	217.8	226.3	153.3	133.8
72.5°	190.9	184.0	171.3	119.5	104.2
75°	148.0	152.3	125.8	90.4	79.3
77.5°	113.1	123.7	91.5	65.0	54.5
80°	82.5	92.5	60.3	39.1	32.8
82.5°	54.5	58.2	31.7	20.1	17.4
85°	28.6	27.0	12.7	11.6	11.1
87.5°	12.2	6.9	6.3	5.3	5.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)