

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-TS-50-HE-L940**

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 (G3-1810-975-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8RSRK-TS-50-HE-L940
Description: 8ft RSRK, 500 LUMEN PER FOOT 90CRI 4000K CCT WITH TRILOBE SMOOTH LENS
Light Source: -
Ballast/Driver: -

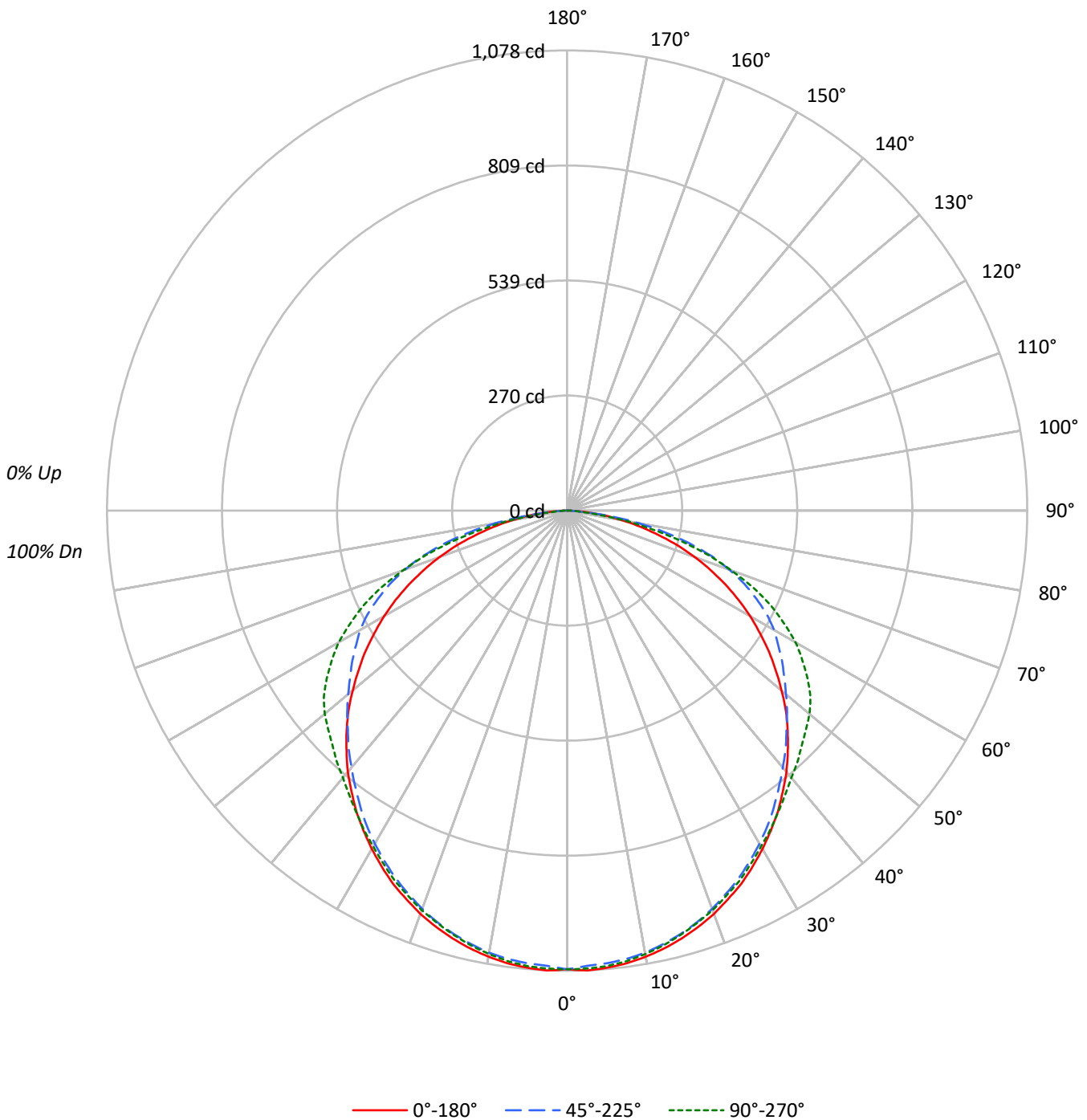
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3308.0 lumens
Efficiency: N/A
Efficacy: 231.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.26 / 1.39
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

TEST NUMBER: P#
CATALOG NUMBER: 8RSRK-TS-50-HE-L940

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 8RSRK-TS-50-HE-L940

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	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73		80	76	72		77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61		70	65	60		68	63	59	56
4	81	69	59	52	79	67	59	52	65	57	51		62	56	51		60	54	50	48
5	74	61	52	45	72	60	51	45	58	50	44		56	49	44		54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	38		50	43	38		49	42	38	36
7	63	50	41	34	62	49	40	34	47	39	34		46	39	34		44	38	33	31
8	59	45	36	30	57	44	36	30	43	36	30		42	35	30		41	34	30	28
9	55	41	33	27	54	41	33	27	40	32	27		39	32	27		37	31	27	25
10	52	38	30	25	50	38	30	25	37	29	25		36	29	24		35	29	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1446	1446	1446
5°	1452	1438	1447
10°	1450	1437	1441
15°	1445	1430	1433
20°	1440	1422	1426
25°	1432	1411	1420
30°	1422	1400	1412
35°	1414	1389	1416
40°	1404	1380	1435
45°	1391	1383	1479
50°	1373	1401	1551
55°	1355	1441	1614
60°	1332	1506	1664
65°	1299	1557	1677
70°	1249	1591	1612
75°	1151	1539	1440
80°	1020	1325	1105
85°	733	672	438



TEST NUMBER: P#

CATALOG NUMBER: 8RSRK-TS-50-HE-L940

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.7	3.1
10°-20°	291.2	8.8
20°-30°	440.9	13.3
30°-40°	534.8	16.2
40°-50°	572.1	17.3
50°-60°	554.5	16.8
60°-70°	464.4	14.0
70°-80°	285.4	8.6
80°-90°	63.0	1.9
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°	833.9	25.2
0°-40°	1368.6	41.4
0°-60°	2495.2	75.4
0°-90°	3308.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3308.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1074	1074	1074	1074	1074	
5°	1075	1073	1065	1072	1071	102
15°	1037	1035	1027	1032	1029	293
25°	965	959	950	957	956	444
35°	861	850	846	860	862	538
45°	731	715	727	764	777	564
55°	578	562	614	675	688	516
65°	408	406	489	522	527	403
75°	221	258	296	283	277	236
85°	48	64	44	30	28	60
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 8RSRK-TS-50-HE-L940

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1074.5	1074.5	1074.5	1074.5	1074.5
2.5°	1078.5	1075.6	1067.5	1074.5	1073.9
5°	1075.0	1072.7	1064.6	1071.6	1071.0
7.5°	1069.8	1067.5	1059.4	1066.4	1064.6
10°	1061.1	1059.4	1051.9	1057.1	1054.8
12.5°	1050.7	1049.0	1040.3	1046.1	1043.2
15°	1037.4	1035.1	1026.9	1031.6	1028.7
17.5°	1022.3	1019.4	1011.3	1015.9	1013.0
20°	1005.5	1001.4	992.8	999.1	996.2
22.5°	985.2	982.3	971.9	978.8	975.9
25°	964.9	959.1	950.4	956.8	956.2
27.5°	940.6	934.8	926.1	933.6	932.5
30°	915.1	908.7	901.2	908.7	908.7
32.5°	888.4	880.3	874.5	883.2	886.1
35°	860.6	849.6	845.5	860.0	861.8
37.5°	829.9	818.9	815.4	834.5	839.2
40°	799.2	785.3	785.9	810.2	817.2
42.5°	765.0	751.1	757.5	785.9	798.6
45°	730.8	715.2	726.7	763.8	777.2
47.5°	694.9	679.8	698.9	742.4	759.2
50°	656.0	641.0	669.4	722.1	741.2
52.5°	616.6	601.0	641.0	701.2	718.6
55°	577.8	562.2	614.3	675.2	687.9
57.5°	536.1	522.7	586.5	641.0	653.7
60°	494.9	483.3	559.8	606.2	618.4
62.5°	452.6	443.9	527.4	566.2	573.2
65°	408.0	405.7	489.1	522.2	526.8
67.5°	363.4	369.2	449.7	471.2	471.7
70°	317.6	333.2	404.5	413.8	409.7
72.5°	271.2	298.5	354.7	350.0	346.6
75°	221.4	258.5	296.1	283.4	277.0
77.5°	176.2	217.9	233.6	215.6	205.7
80°	131.6	172.1	171.0	147.8	142.6
82.5°	88.7	120.0	102.6	83.5	73.0
85°	47.5	63.7	43.5	30.1	28.4
87.5°	18.0	15.1	11.6	10.4	10.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)