

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: **4RSRK-TB-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 (G3-1810-975-9)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4RSRK-TB-50-HE-L940
Description: 4ft RSRK, 500 LUMEN PER FOOT 90CRI 4000K CCT WITH TRILOBE RIBBED LENS
Light Source: -
Ballast/Driver: -

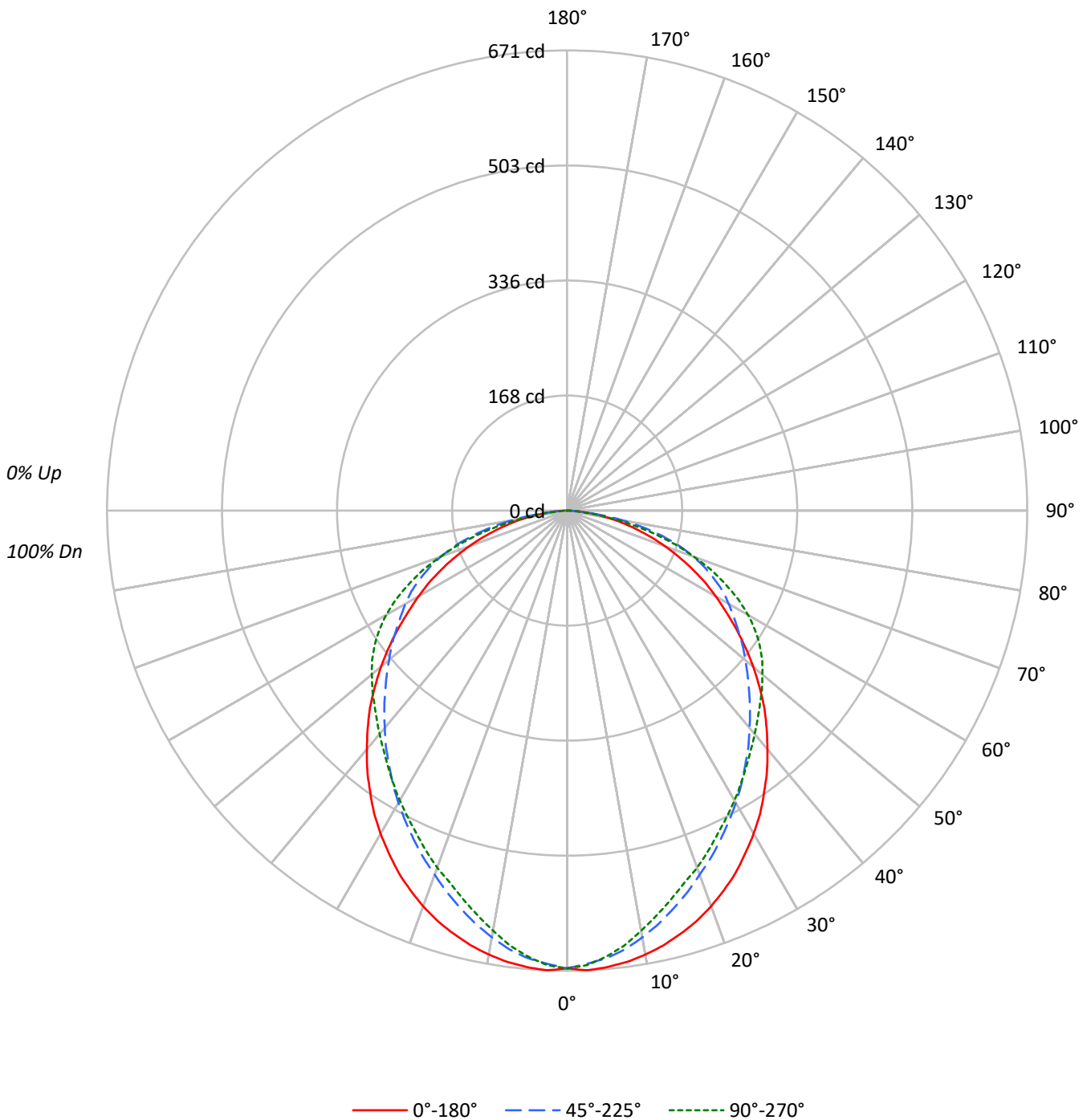
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1746.2 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.1 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' 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: 4RSRK-TB-50-HE-L940

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 4RSRK-TB-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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	62	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1796	1796	1796
5°	1805	1770	1764
10°	1796	1727	1700
15°	1780	1673	1634
20°	1758	1618	1587
25°	1729	1572	1543
30°	1690	1529	1517
35°	1645	1487	1496
40°	1596	1453	1494
45°	1547	1429	1514
50°	1483	1419	1556
55°	1413	1428	1609
60°	1346	1464	1641
65°	1280	1510	1626
70°	1197	1543	1546
75°	1074	1497	1385
80°	941	1271	1029
85°	707	673	435



TEST NUMBER: P#

CATALOG NUMBER: 4RSRK-TB-50-HE-L940

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.2	3.6
10°-20°	171.2	9.8
20°-30°	249.0	14.3
30°-40°	291.3	16.7
40°-50°	299.4	17.1
50°-60°	278.5	16.0
60°-70°	226.6	13.0
70°-80°	137.2	7.9
80°-90°	30.8	1.8
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°	482.4	27.6
0°-40°	773.7	44.3
0°-60°	1351.6	77.4
0°-90°	1746.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1746.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	668	668	668	668	668	
5°	668	664	655	656	653	63
15°	639	625	600	592	586	180
25°	582	558	529	524	520	268
35°	501	474	453	456	455	313
45°	406	380	375	392	398	313
55°	301	285	304	335	343	269
65°	201	197	237	256	255	199
75°	103	123	144	138	133	111
85°	23	31	22	16	14	28
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 4RSRK-TB-50-HE-L940

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	667.5	667.5	667.5	667.5	667.5
2.5°	671.0	667.9	661.4	665.1	663.5
5°	668.2	664.2	655.2	656.5	653.0
7.5°	664.0	658.3	645.3	642.7	639.6
10°	657.4	649.0	631.9	627.7	622.0
12.5°	649.3	638.5	617.0	609.5	604.2
15°	638.9	625.3	600.5	591.5	586.4
17.5°	627.7	610.8	583.3	574.1	568.8
20°	613.9	594.5	564.9	557.2	554.1
22.5°	598.5	576.3	547.7	540.9	537.4
25°	582.2	557.6	529.3	524.0	519.6
27.5°	563.1	538.0	510.6	506.8	503.8
30°	544.0	518.3	492.1	489.5	488.2
32.5°	523.8	495.8	472.8	472.3	471.7
35°	500.9	474.3	452.8	455.6	455.4
37.5°	478.7	451.5	433.9	438.9	440.0
40°	454.3	427.7	413.6	422.2	425.3
42.5°	430.4	404.9	394.7	406.4	411.4
45°	406.4	380.2	375.4	391.9	397.8
47.5°	380.2	356.7	357.2	378.3	385.3
50°	354.3	332.3	338.9	363.5	371.7
52.5°	327.5	308.6	322.4	349.2	358.5
55°	301.1	284.6	304.4	335.4	342.9
57.5°	274.7	261.6	287.9	317.6	325.1
60°	250.1	238.7	272.1	299.1	304.9
62.5°	226.6	217.4	256.5	278.9	281.8
65°	201.1	197.4	237.2	256.1	255.4
67.5°	176.1	176.9	217.4	229.7	228.6
70°	152.1	159.1	196.1	201.1	196.5
72.5°	127.5	140.7	171.2	170.8	166.2
75°	103.3	122.9	144.0	137.6	133.2
77.5°	82.4	103.7	114.3	105.5	98.5
80°	60.7	83.1	82.0	72.1	66.4
82.5°	39.8	57.8	50.8	40.9	38.2
85°	22.9	31.4	21.8	15.8	14.1
87.5°	9.7	8.4	5.5	5.1	4.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)