

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-TS-200-HE-L840**

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: 4RSRK-TS-200-HE-L840
Description: 4ft RSRK, 2000 LUMEN PER FOOT 80CRI 4000K CCT WITH TRILOBE SMOOTH LENS
Light Source: -
Ballast/Driver: -

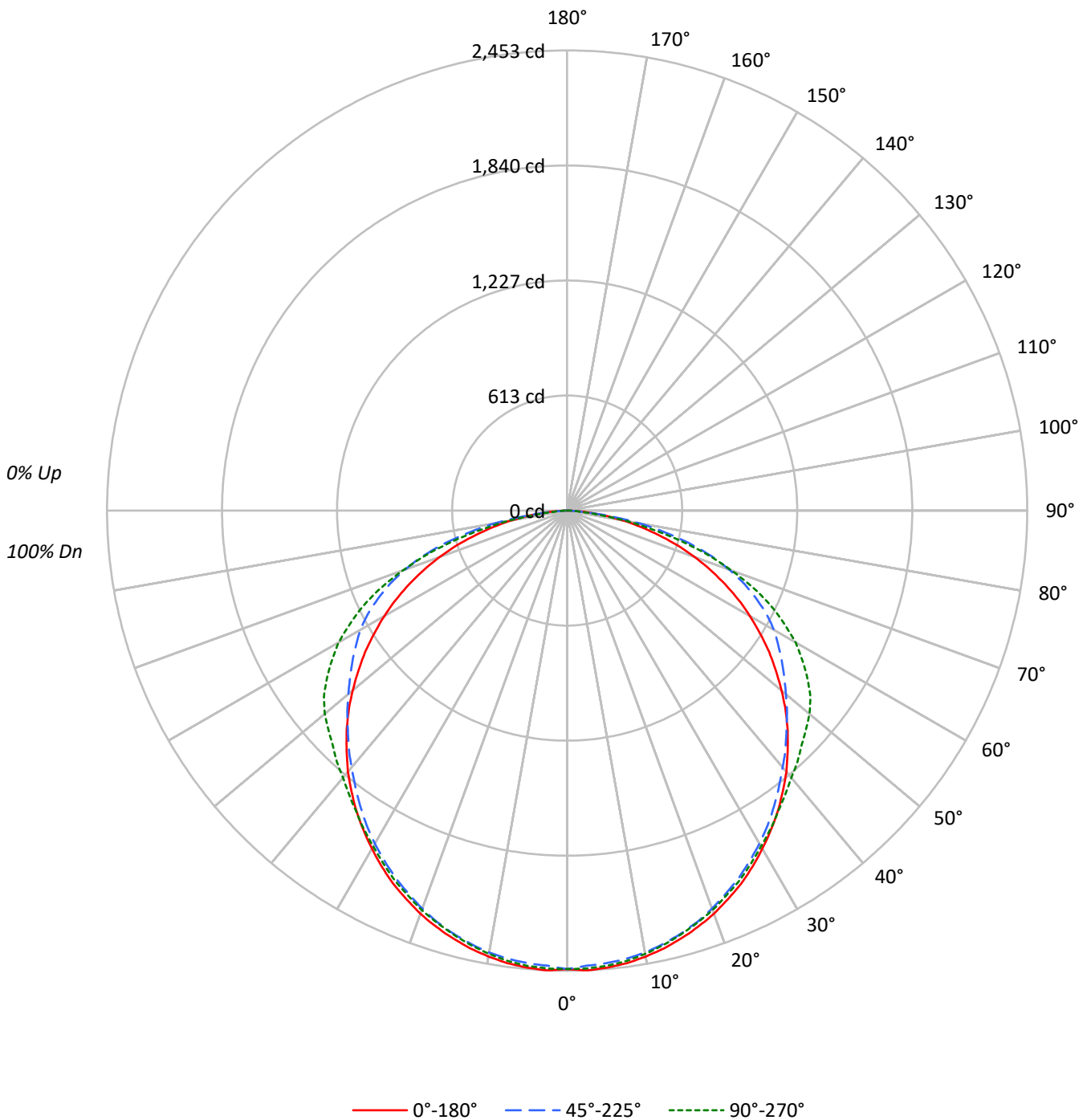
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7524.8 lumens
Efficiency: N/A
Efficacy: 123.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.26 / 1.39
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 61.2
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-TS-200-HE-L840

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 4RSRK-TS-200-HE-L840

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6577	6577	6577
5°	6606	6542	6581
10°	6596	6538	6556
15°	6574	6508	6519
20°	6550	6467	6490
25°	6517	6419	6459
30°	6468	6370	6423
35°	6431	6319	6440
40°	6386	6280	6530
45°	6326	6291	6728
50°	6247	6374	7059
55°	6166	6556	7341
60°	6059	6854	7570
65°	5910	7084	7630
70°	5684	7240	7333
75°	5236	7004	6551
80°	4638	6027	5026
85°	3338	3054	1995



TEST NUMBER: P#

CATALOG NUMBER: 4RSRK-TS-200-HE-L840

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.5	3.1
10°-20°	662.4	8.8
20°-30°	1003.0	13.3
30°-40°	1216.5	16.2
40°-50°	1301.4	17.3
50°-60°	1261.3	16.8
60°-70°	1056.4	14.0
70°-80°	649.1	8.6
80°-90°	143.4	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°	1896.8	25.2
0°-40°	3113.3	41.4
0°-60°	5675.9	75.4
0°-90°	7524.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7524.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2444	2444	2444	2444	2444	
5°	2445	2440	2422	2438	2436	232
15°	2360	2354	2336	2347	2340	666
25°	2195	2182	2162	2176	2175	1011
35°	1958	1933	1923	1956	1960	1224
45°	1662	1627	1653	1738	1768	1282
55°	1314	1279	1397	1536	1565	1173
65°	928	923	1113	1188	1198	918
75°	504	588	674	645	630	536
85°	108	145	99	69	65	136
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 4RSRK-TS-200-HE-L840

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2444.1	2444.1	2444.1	2444.1	2444.1
2.5°	2453.3	2446.8	2428.3	2444.1	2442.8
5°	2445.4	2440.2	2421.7	2437.5	2436.2
7.5°	2433.6	2428.3	2409.8	2425.7	2421.7
10°	2413.8	2409.8	2392.7	2404.6	2399.3
12.5°	2390.1	2386.1	2366.3	2379.5	2372.9
15°	2359.7	2354.5	2336.0	2346.6	2340.0
17.5°	2325.5	2318.9	2300.4	2311.0	2304.4
20°	2287.2	2278.0	2258.2	2272.7	2266.2
22.5°	2241.1	2234.5	2210.8	2226.6	2220.0
25°	2195.0	2181.8	2162.0	2176.5	2175.2
27.5°	2139.6	2126.4	2106.6	2123.8	2121.1
30°	2081.6	2067.1	2049.9	2067.1	2067.1
32.5°	2020.9	2002.5	1989.3	2009.1	2015.7
35°	1957.7	1932.6	1923.4	1956.4	1960.3
37.5°	1887.8	1862.8	1854.8	1898.3	1908.9
40°	1817.9	1786.3	1787.6	1843.0	1858.8
42.5°	1740.2	1708.5	1723.0	1787.6	1816.6
45°	1662.4	1626.8	1653.1	1737.5	1767.8
47.5°	1580.6	1546.4	1589.9	1688.7	1727.0
50°	1492.3	1458.0	1522.6	1642.6	1686.1
52.5°	1402.7	1367.1	1458.0	1595.1	1634.7
55°	1314.3	1278.7	1397.4	1535.8	1564.8
57.5°	1219.4	1189.1	1334.1	1458.0	1487.0
60°	1125.8	1099.5	1273.5	1378.9	1406.6
62.5°	1029.6	1009.8	1199.6	1288.0	1303.8
65°	928.1	922.8	1112.6	1187.8	1198.3
67.5°	826.6	839.8	1023.0	1071.8	1073.1
70°	722.4	758.0	920.2	941.3	932.0
72.5°	617.0	678.9	806.8	796.3	788.3
75°	503.6	588.0	673.6	644.6	630.1
77.5°	400.8	495.7	531.3	490.4	468.0
80°	299.3	391.5	388.9	336.2	324.3
82.5°	201.7	272.9	233.3	189.8	166.1
85°	108.1	145.0	98.9	68.6	64.6
87.5°	40.9	34.3	26.4	23.7	23.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)