

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-100-HE-L840**

Issue Date: 3/3/2020



**Test Information**

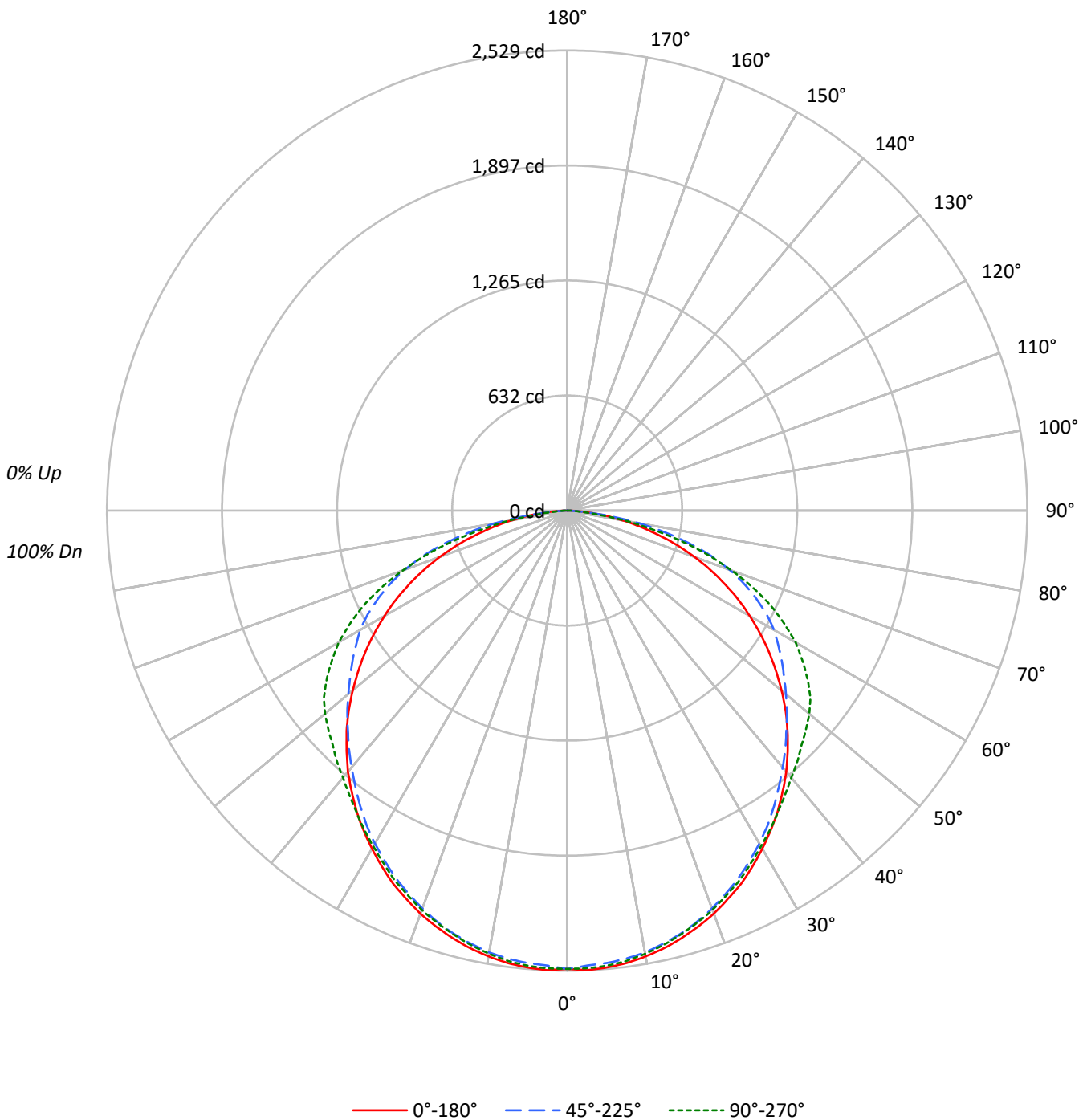
Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1810-975-5)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8RSRK-TS-100-HE-L840  
Description: 8ft RSRK, 1000 LUMEN PER FOOT 80CRI 4000K CCT WITH TRILOBE SMOOTH LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7755.9 lumens  
Efficiency: N/A  
Efficacy: 269.3 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): 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

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### 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	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°	3390	3390	3390
5°	3404	3371	3391
10°	3399	3369	3379
15°	3388	3354	3360
20°	3376	3333	3344
25°	3359	3308	3328
30°	3333	3283	3310
35°	3314	3256	3319
40°	3291	3236	3365
45°	3260	3242	3467
50°	3220	3285	3638
55°	3178	3379	3784
60°	3123	3532	3901
65°	3046	3651	3932
70°	2929	3731	3779
75°	2699	3609	3376
80°	2390	3106	2590
85°	1720	1573	1028



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	238.6	3.1
10°-20°	682.7	8.8
20°-30°	1033.8	13.3
30°-40°	1253.8	16.2
40°-50°	1341.3	17.3
50°-60°	1300.1	16.8
60°-70°	1088.8	14.0
70°-80°	669.1	8.6
80°-90°	147.8	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°	1955.1	25.2
0°-40°	3208.9	41.4
0°-60°	5850.3	75.4
0°-90°	7755.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7755.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2519	2519	2519	2519	2519	
5°	2521	2515	2496	2512	2511	240
15°	2432	2427	2408	2419	2412	687
25°	2262	2249	2228	2243	2242	1042
35°	2018	1992	1982	2016	2020	1262
45°	1713	1677	1704	1791	1822	1321
55°	1355	1318	1440	1583	1613	1209
65°	957	951	1147	1224	1235	946
75°	519	606	694	664	650	552
85°	111	150	102	71	67	140
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2519.2	2519.2	2519.2	2519.2	2519.2
2.5°	2528.7	2521.9	2502.9	2519.2	2517.8
5°	2520.6	2515.1	2496.1	2512.4	2511.0
7.5°	2508.3	2502.9	2483.9	2500.2	2496.1
10°	2487.9	2483.9	2466.2	2478.4	2473.0
12.5°	2463.5	2459.4	2439.0	2452.6	2445.8
15°	2432.2	2426.8	2407.8	2418.6	2411.8
17.5°	2396.9	2390.1	2371.1	2382.0	2375.2
20°	2357.5	2348.0	2327.6	2342.5	2335.8
22.5°	2309.9	2303.1	2278.7	2295.0	2288.2
25°	2262.4	2248.8	2228.4	2243.4	2242.0
27.5°	2205.3	2191.7	2171.3	2189.0	2186.3
30°	2145.5	2130.6	2112.9	2130.6	2130.6
32.5°	2083.0	2064.0	2050.4	2070.8	2077.6
35°	2017.8	1992.0	1982.5	2016.4	2020.5
37.5°	1945.8	1920.0	1911.8	1956.7	1967.5
40°	1873.8	1841.2	1842.5	1899.6	1915.9
42.5°	1793.6	1761.0	1775.9	1842.5	1872.4
45°	1713.4	1676.7	1703.9	1790.9	1822.1
47.5°	1629.2	1593.9	1638.7	1740.6	1780.0
50°	1538.1	1502.8	1569.4	1693.0	1737.9
52.5°	1445.7	1409.1	1502.8	1644.1	1684.9
55°	1354.7	1318.0	1440.3	1583.0	1612.9
57.5°	1256.9	1225.6	1375.1	1502.8	1532.7
60°	1160.4	1133.2	1312.6	1421.3	1449.8
62.5°	1061.2	1040.8	1236.5	1327.5	1343.8
65°	956.6	951.2	1146.8	1224.3	1235.1
67.5°	852.0	865.5	1054.4	1104.7	1106.1
70°	744.6	781.3	948.4	970.2	960.7
72.5°	635.9	699.8	831.6	820.7	812.6
75°	519.1	606.0	694.3	664.4	649.5
77.5°	413.1	510.9	547.6	505.5	482.4
80°	308.4	403.6	400.8	346.5	334.3
82.5°	207.9	281.3	240.5	195.7	171.2
85°	111.4	149.5	101.9	70.7	66.6
87.5°	42.1	35.3	27.2	24.5	24.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)