

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-L830**

Issue Date: 3/3/2020



**Test Information**

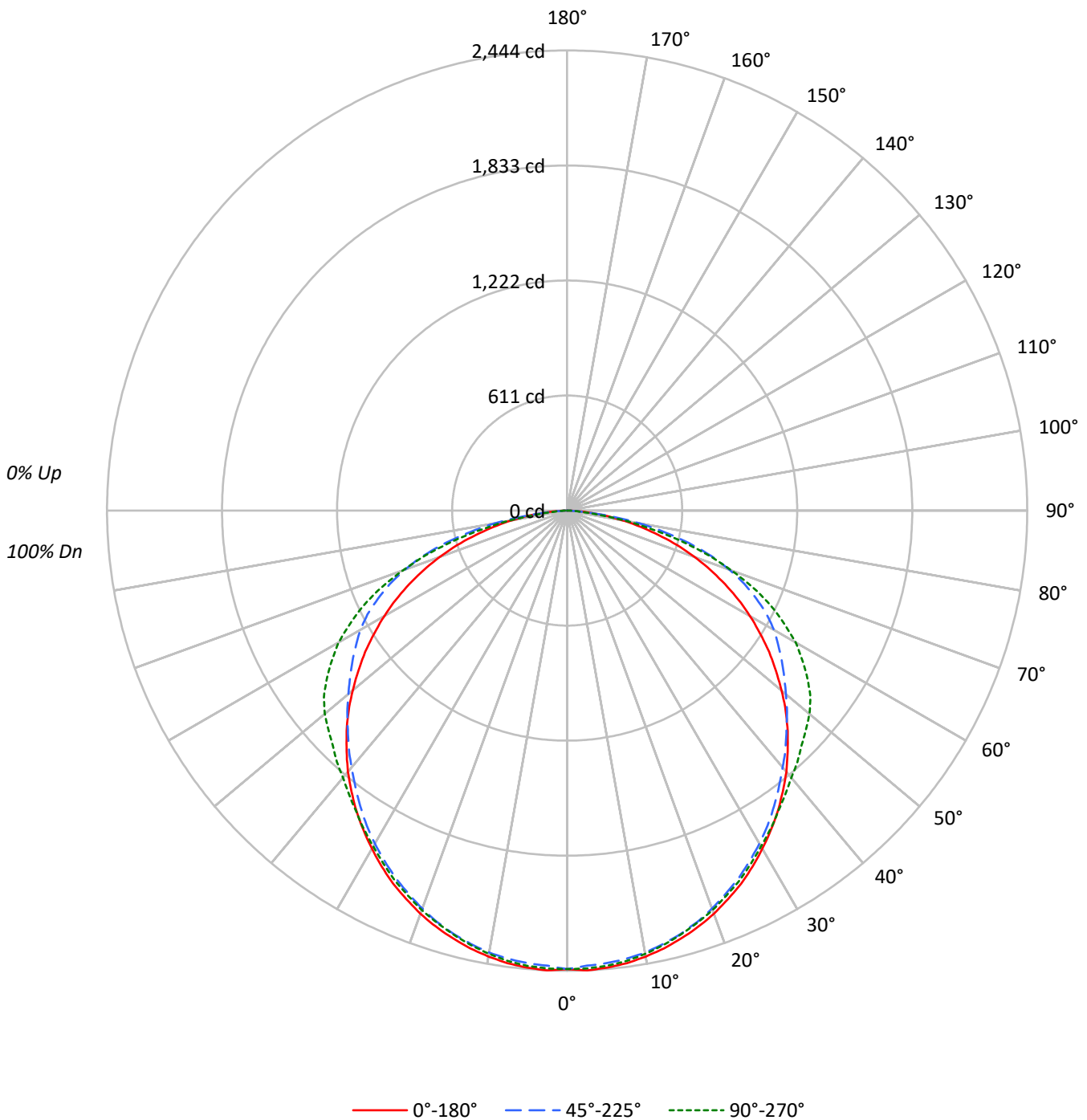
Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1810-975-5)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8RSRK-TS-100-HE-L830  
Description: 8ft RSRK, 1000 LUMEN PER FOOT 80CRI 3000K CCT WITH TRILOBE SMOOTH LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7497.3 lumens  
Efficiency: N/A  
Efficacy: 260.3 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	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°	3277	3277	3277
5°	3291	3259	3278
10°	3286	3257	3266
15°	3275	3242	3248
20°	3263	3222	3233
25°	3247	3198	3217
30°	3222	3173	3200
35°	3204	3148	3208
40°	3181	3128	3253
45°	3152	3134	3352
50°	3112	3176	3516
55°	3072	3266	3657
60°	3018	3414	3771
65°	2944	3529	3801
70°	2832	3607	3653
75°	2608	3489	3264
80°	2311	3002	2503
85°	1663	1521	994



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	230.6	3.1
10°-20°	660.0	8.8
20°-30°	999.3	13.3
30°-40°	1212.0	16.2
40°-50°	1296.6	17.3
50°-60°	1256.7	16.8
60°-70°	1052.5	14.0
70°-80°	646.7	8.6
80°-90°	142.8	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°	1889.9	25.2
0°-40°	3101.9	41.4
0°-60°	5655.2	75.4
0°-90°	7497.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7497.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2435	2435	2435	2435	2435	
5°	2436	2431	2413	2429	2427	232
15°	2351	2346	2328	2338	2331	664
25°	2187	2174	2154	2168	2167	1007
35°	1950	1926	1916	1949	1953	1220
45°	1656	1621	1647	1731	1761	1277
55°	1310	1274	1392	1530	1559	1169
65°	925	919	1109	1183	1194	914
75°	502	586	671	642	628	534
85°	108	144	98	68	64	136
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2435.2	2435.2	2435.2	2435.2	2435.2
2.5°	2444.4	2437.8	2419.4	2435.2	2433.9
5°	2436.5	2431.2	2412.8	2428.6	2427.3
7.5°	2424.7	2419.4	2401.0	2416.8	2412.8
10°	2405.0	2401.0	2384.0	2395.8	2390.5
12.5°	2381.3	2377.4	2357.7	2370.8	2364.2
15°	2351.1	2345.9	2327.5	2338.0	2331.4
17.5°	2317.0	2310.4	2292.0	2302.5	2295.9
20°	2278.9	2269.7	2250.0	2264.4	2257.9
22.5°	2232.9	2226.3	2202.7	2218.5	2211.9
25°	2186.9	2173.8	2154.1	2168.5	2167.2
27.5°	2131.8	2118.6	2098.9	2116.0	2113.4
30°	2074.0	2059.5	2042.4	2059.5	2059.5
32.5°	2013.6	1995.2	1982.0	2001.7	2008.3
35°	1950.5	1925.5	1916.4	1949.2	1953.1
37.5°	1880.9	1855.9	1848.1	1891.4	1901.9
40°	1811.3	1779.8	1781.1	1836.2	1852.0
42.5°	1733.8	1702.3	1716.7	1781.1	1810.0
45°	1656.3	1620.8	1647.1	1731.2	1761.4
47.5°	1574.9	1540.7	1584.0	1682.6	1720.6
50°	1486.9	1452.7	1517.1	1636.6	1679.9
52.5°	1397.5	1362.1	1452.7	1589.3	1628.7
55°	1309.5	1274.1	1392.3	1530.2	1559.1
57.5°	1215.0	1184.8	1329.2	1452.7	1481.6
60°	1121.7	1095.4	1268.8	1373.9	1401.5
62.5°	1025.8	1006.1	1195.3	1283.3	1299.0
65°	924.7	919.4	1108.6	1183.4	1193.9
67.5°	823.5	836.7	1019.3	1067.9	1069.2
70°	719.8	755.2	916.8	937.8	928.6
72.5°	614.7	676.4	803.8	793.3	785.5
75°	501.7	585.8	671.2	642.3	627.8
77.5°	399.3	493.9	529.3	488.6	466.3
80°	298.2	390.1	387.5	334.9	323.1
82.5°	201.0	271.9	232.5	189.1	165.5
85°	107.7	144.5	98.5	68.3	64.4
87.5°	40.7	34.2	26.3	23.6	23.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)