

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-TB-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 (G3-1810-975-9)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8RSRK-TB-100-HE-L830
Description: 8ft RSRK, 1000 LUMEN PER FOOT 80CRI 3000K CCT WITH TRILOBE RIBBED LENS
Light Source: -
Ballast/Driver: -

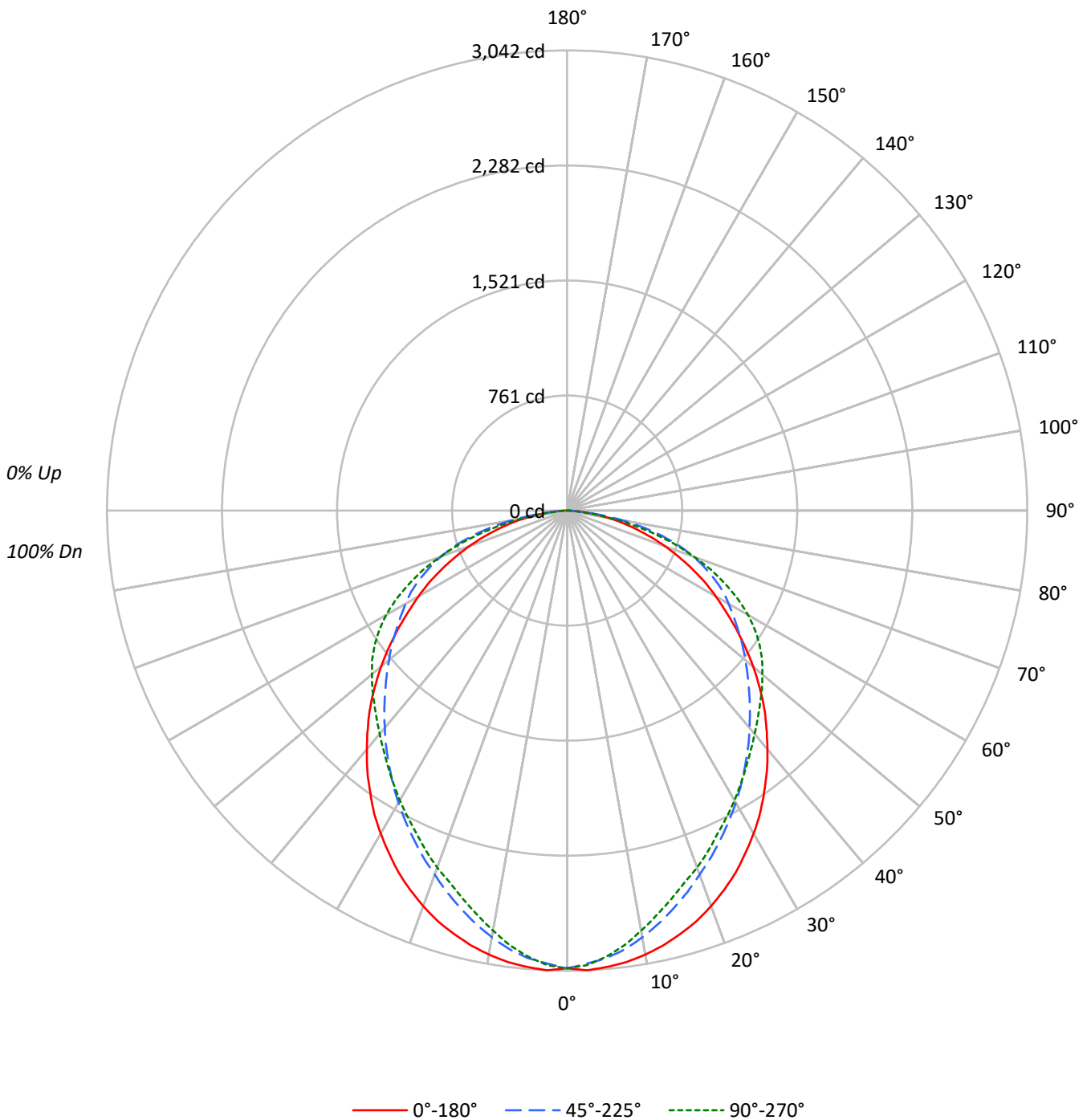
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7914.9 lumens
Efficiency: N/A
Efficacy: 274.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.1 / 1.26
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

TEST NUMBER: P#
CATALOG NUMBER: 8RSRK-TB-100-HE-L830

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 8RSRK-TB-100-HE-L830

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°	4071	4071	4071
5°	4091	4011	3998
10°	4071	3913	3852
15°	4034	3791	3703
20°	3984	3666	3596
25°	3918	3562	3496
30°	3831	3466	3438
35°	3729	3371	3391
40°	3617	3293	3386
45°	3505	3238	3431
50°	3362	3216	3526
55°	3202	3237	3646
60°	3051	3319	3718
65°	2902	3422	3686
70°	2712	3496	3504
75°	2434	3393	3138
80°	2131	2879	2331
85°	1599	1522	985



TEST NUMBER: P#

CATALOG NUMBER: 8RSRK-TB-100-HE-L830

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.0	3.6
10°-20°	775.9	9.8
20°-30°	1128.8	14.3
30°-40°	1320.3	16.7
40°-50°	1357.1	17.1
50°-60°	1262.5	16.0
60°-70°	1027.0	13.0
70°-80°	622.0	7.9
80°-90°	139.3	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°	2186.7	27.6
0°-40°	3507.0	44.3
0°-60°	6126.6	77.4
0°-90°	7914.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7914.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3026	3026	3026	3026	3026	
5°	3029	3011	2970	2976	2960	288
15°	2896	2834	2722	2681	2658	817
25°	2639	2528	2399	2375	2355	1214
35°	2270	2150	2052	2065	2064	1421
45°	1842	1724	1702	1776	1803	1418
55°	1365	1290	1380	1520	1554	1222
65°	912	895	1075	1161	1158	903
75°	468	557	653	624	604	501
85°	104	142	99	72	64	127
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 8RSRK-TB-100-HE-L830

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3025.7	3025.7	3025.7	3025.7	3025.7
2.5°	3041.6	3027.7	2997.8	3014.7	3007.7
5°	3028.7	3010.7	2969.9	2975.9	2959.9
7.5°	3009.7	2983.8	2925.1	2913.1	2899.1
10°	2979.8	2942.0	2864.3	2845.3	2819.4
12.5°	2943.0	2894.2	2796.5	2762.7	2738.7
15°	2896.2	2834.4	2721.8	2681.0	2658.1
17.5°	2845.3	2768.6	2644.1	2602.3	2578.3
20°	2782.6	2694.9	2560.4	2525.5	2511.6
22.5°	2712.8	2612.2	2482.7	2451.8	2435.9
25°	2639.1	2527.5	2399.0	2375.1	2355.2
27.5°	2552.4	2438.9	2314.3	2297.4	2283.5
30°	2465.8	2349.2	2230.6	2218.7	2212.7
32.5°	2374.1	2247.6	2143.0	2141.0	2138.0
35°	2270.5	2150.0	2052.3	2065.3	2064.3
37.5°	2169.9	2046.3	1966.6	1989.6	1994.5
40°	2059.3	1938.7	1875.0	1913.8	1927.8
42.5°	1950.7	1835.1	1789.3	1842.1	1865.0
45°	1842.1	1723.5	1701.6	1776.4	1803.2
47.5°	1723.5	1616.9	1618.9	1714.6	1746.5
50°	1606.0	1506.4	1536.2	1647.8	1684.7
52.5°	1484.4	1398.8	1461.5	1583.1	1624.9
55°	1364.9	1290.2	1379.8	1520.3	1554.2
57.5°	1245.3	1185.6	1305.1	1439.6	1473.5
60°	1133.8	1081.9	1233.4	1355.9	1381.8
62.5°	1027.2	985.3	1162.6	1264.3	1277.2
65°	911.6	894.7	1075.0	1160.7	1157.7
67.5°	798.0	802.0	985.3	1041.1	1036.1
70°	689.4	721.3	888.7	911.6	890.7
72.5°	577.8	637.6	776.1	774.1	753.2
75°	468.2	556.9	652.6	623.7	603.7
77.5°	373.6	470.2	518.1	478.2	446.3
80°	275.0	376.6	371.6	326.8	300.9
82.5°	180.3	262.0	230.1	185.3	173.4
85°	103.6	142.5	98.6	71.7	63.8
87.5°	43.8	37.9	24.9	22.9	20.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)