

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-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 (G3-1810-975-9)
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-L840
Description: 8ft RSRK, 1000 LUMEN PER FOOT 80CRI 4000K CCT WITH TRILOBE RIBBED LENS
Light Source: -
Ballast/Driver: -

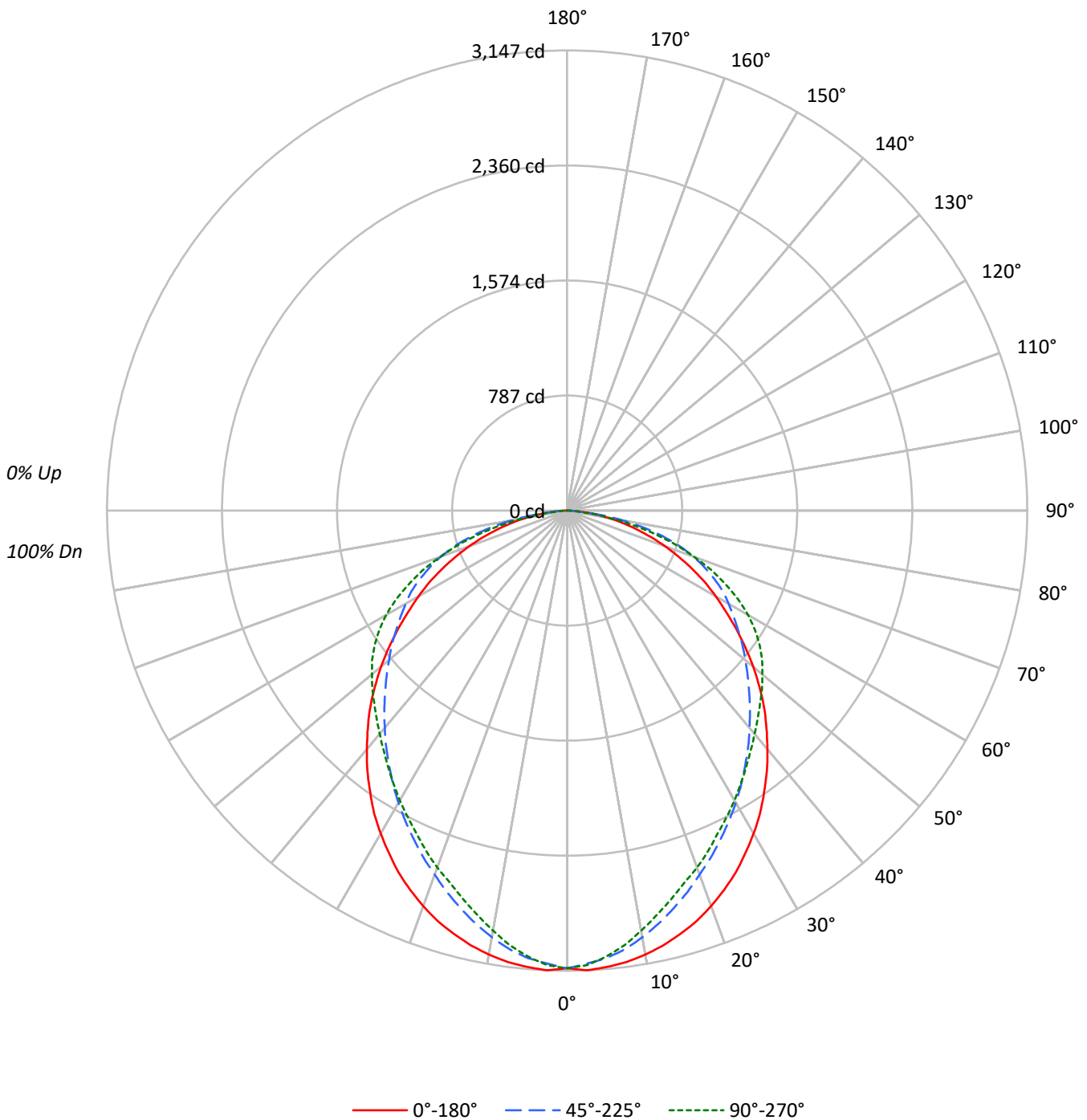
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8188.0 lumens
Efficiency: N/A
Efficacy: 284.3 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-L840

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	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°	4212	4212	4212
5°	4232	4150	4136
10°	4212	4048	3985
15°	4173	3922	3830
20°	4122	3793	3720
25°	4053	3684	3617
30°	3963	3585	3556
35°	3858	3487	3508
40°	3742	3407	3503
45°	3626	3350	3550
50°	3478	3327	3648
55°	3312	3348	3772
60°	3156	3433	3847
65°	3002	3541	3813
70°	2806	3616	3625
75°	2518	3510	3247
80°	2204	2978	2412
85°	1655	1575	1019



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.7	3.6
10°-20°	802.7	9.8
20°-30°	1167.7	14.3
30°-40°	1365.8	16.7
40°-50°	1403.9	17.1
50°-60°	1306.1	16.0
60°-70°	1062.4	13.0
70°-80°	643.5	7.9
80°-90°	144.2	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°	2262.2	27.6
0°-40°	3628.0	44.3
0°-60°	6338.0	77.4
0°-90°	8188.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8188.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3130	3130	3130	3130	3130	
5°	3133	3115	3072	3078	3062	297
15°	2996	2932	2816	2774	2750	845
25°	2730	2615	2482	2457	2436	1256
35°	2349	2224	2123	2136	2136	1470
45°	1906	1783	1760	1838	1866	1467
55°	1412	1335	1427	1573	1608	1264
65°	943	926	1112	1201	1198	934
75°	484	576	675	645	625	519
85°	107	147	102	74	66	131
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3130.1	3130.1	3130.1	3130.1	3130.1
2.5°	3146.6	3132.1	3101.2	3118.7	3111.5
5°	3133.2	3114.6	3072.3	3078.5	3062.0
7.5°	3113.6	3086.8	3026.0	3013.6	2999.2
10°	3082.7	3043.5	2963.1	2943.5	2916.7
12.5°	3044.5	2994.0	2893.0	2858.0	2833.2
15°	2996.1	2932.2	2815.7	2773.5	2749.8
17.5°	2943.5	2864.2	2735.3	2692.0	2667.3
20°	2878.6	2787.9	2648.8	2612.7	2598.2
22.5°	2806.4	2702.3	2568.4	2536.4	2519.9
25°	2730.2	2614.7	2481.8	2457.1	2436.4
27.5°	2640.5	2523.0	2394.2	2376.7	2362.2
30°	2550.8	2430.3	2307.6	2295.2	2289.1
32.5°	2456.0	2325.1	2216.9	2214.9	2211.8
35°	2348.8	2224.1	2123.1	2136.5	2135.5
37.5°	2244.7	2116.9	2034.5	2058.2	2063.3
40°	2130.3	2005.6	1939.7	1979.9	1994.3
42.5°	2018.0	1898.4	1851.0	1905.7	1929.4
45°	1905.7	1783.0	1760.3	1837.6	1865.5
47.5°	1783.0	1672.7	1674.8	1773.7	1806.7
50°	1661.4	1558.3	1589.3	1704.7	1742.8
52.5°	1535.7	1447.0	1512.0	1637.7	1681.0
55°	1412.0	1334.7	1427.4	1572.8	1607.8
57.5°	1288.3	1226.5	1350.1	1489.3	1524.3
60°	1172.9	1119.3	1275.9	1402.7	1429.5
62.5°	1062.6	1019.3	1202.8	1307.9	1321.3
65°	943.0	925.5	1112.1	1200.7	1197.6
67.5°	825.5	829.7	1019.3	1077.0	1071.9
70°	713.2	746.2	919.3	943.0	921.4
72.5°	597.8	659.6	802.9	800.8	779.2
75°	484.4	576.1	675.1	645.2	624.6
77.5°	386.5	486.5	535.9	494.7	461.7
80°	284.5	389.6	384.4	338.1	311.3
82.5°	186.5	271.1	238.1	191.7	179.3
85°	107.2	147.4	102.0	74.2	66.0
87.5°	45.3	39.2	25.8	23.7	21.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)