

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-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 (G3-1811-041-2)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8RSRK-100-HE-L840
Description: 8ft RSRK, 1000 LUMEN PER FOOT 80CRI 4000K CCT WITH NO LENS
Light Source: -
Ballast/Driver: -

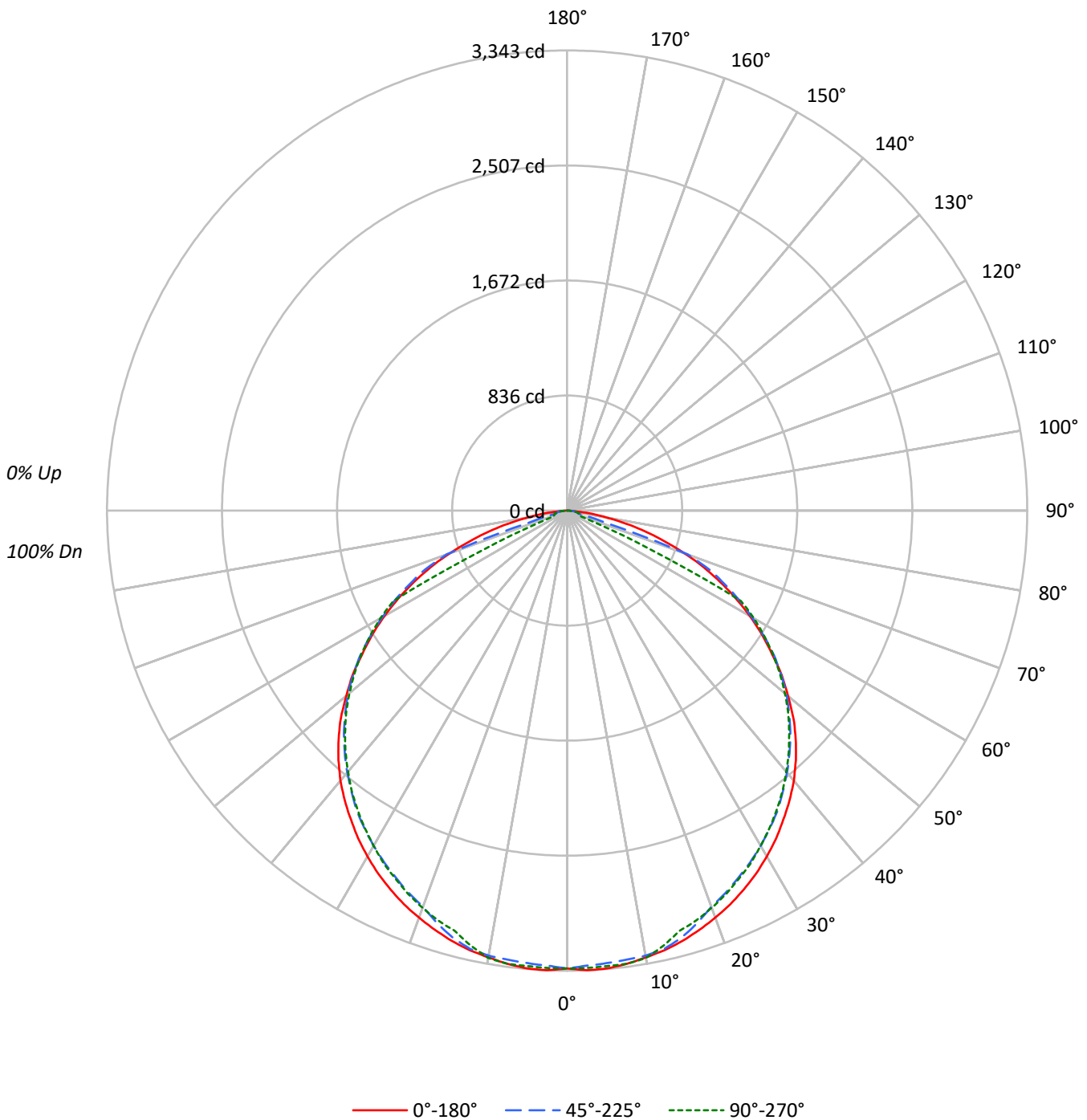
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9155.7 lumens
Efficiency: N/A
Efficacy: 317.9 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.26 / 1.4
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	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	74	72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	65	72	67	63	61
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4475	4475	4475
5°	4509	4457	4486
10°	4503	4486	4509
15°	4508	4473	4402
20°	4506	4385	4397
25°	4509	4370	4382
30°	4507	4369	4369
35°	4500	4374	4360
40°	4499	4364	4349
45°	4469	4364	4340
50°	4383	4357	4321
55°	4264	4304	4284
60°	4126	4172	4218
65°	3908	4016	2123
70°	3576	3659	401
75°	3069	441	486
80°	2304	559	559
85°	1181	590	525



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.0	3.5
10°-20°	905.1	9.9
20°-30°	1376.0	15.0
30°-40°	1676.1	18.3
40°-50°	1773.6	19.4
50°-60°	1626.8	17.8
60°-70°	1097.3	12.0
70°-80°	331.6	3.6
80°-90°	53.1	0.6
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°	2597.1	28.4
0°-40°	4273.2	46.7
0°-60°	7673.7	83.8
0°-90°	9155.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9155.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3326	3326	3326	3326	3326	
5°	3338	3313	3300	3330	3322	317
15°	3237	3220	3211	3186	3160	914
25°	3037	3033	2943	2973	2952	1400
35°	2740	2680	2663	2672	2655	1716
45°	2349	2294	2294	2298	2281	1808
55°	1818	1792	1835	1835	1826	1627
65°	1228	1210	1261	1278	667	1212
75°	590	595	85	93	93	626
85°	76	38	38	34	34	117
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3325.8	3325.8	3325.8	3325.8	3325.8
2.5°	3342.8	3317.2	3308.8	3330.0	3325.8
5°	3338.5	3313.0	3300.2	3330.0	3321.5
7.5°	3321.5	3296.0	3291.8	3325.8	3321.5
10°	3296.0	3279.0	3283.2	3313.0	3300.2
12.5°	3270.5	3253.5	3262.0	3253.5	3236.6
15°	3236.6	3219.6	3211.1	3185.6	3160.1
17.5°	3194.1	3185.6	3143.1	3134.6	3121.9
20°	3147.3	3147.3	3062.4	3087.9	3071.0
22.5°	3096.3	3096.3	3007.2	3032.7	3015.7
25°	3037.0	3032.7	2943.4	2973.2	2952.0
27.5°	2973.2	2952.0	2879.8	2905.3	2888.3
30°	2901.1	2862.8	2811.8	2828.8	2811.8
32.5°	2824.5	2769.3	2739.6	2752.3	2735.4
35°	2739.6	2680.2	2663.2	2671.6	2654.6
37.5°	2654.6	2590.9	2574.0	2586.6	2569.7
40°	2561.3	2501.7	2484.7	2493.3	2476.3
42.5°	2459.3	2408.4	2391.4	2395.6	2382.8
45°	2348.8	2293.6	2293.6	2297.8	2280.8
47.5°	2229.9	2183.2	2187.5	2191.7	2178.9
50°	2093.9	2060.0	2081.3	2085.5	2064.3
52.5°	1966.6	1932.6	1958.0	1966.6	1949.6
55°	1817.9	1792.4	1834.9	1834.9	1826.4
57.5°	1677.8	1652.2	1694.8	1711.8	1699.0
60°	1533.3	1507.9	1550.3	1580.1	1567.3
62.5°	1380.4	1359.2	1410.2	1448.3	1422.9
65°	1227.5	1210.5	1261.4	1278.4	666.8
67.5°	1070.4	1057.6	1117.1	403.6	106.1
70°	909.0	896.3	930.2	101.9	101.9
72.5°	743.4	747.6	297.3	97.7	97.7
75°	590.4	594.6	84.9	93.4	93.4
77.5°	437.5	445.9	80.8	84.9	84.9
80°	297.3	216.7	72.2	72.2	72.2
82.5°	178.4	51.0	55.2	55.2	51.0
85°	76.5	38.2	38.2	34.0	34.0
87.5°	25.5	17.0	17.0	12.8	12.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)