

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: P289570

Luminaire Tested: **8RSRK-RM-100-HE-L940**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P289570
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1810-975-8)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8RSRK-RM-100-HE-L940
Description: 8ft RSRK, 1000 LUMEN PER FOOT 90CRI 4000K CCT WITH ROUND MEDIUM LENS
Light Source: -
Ballast/Driver: -

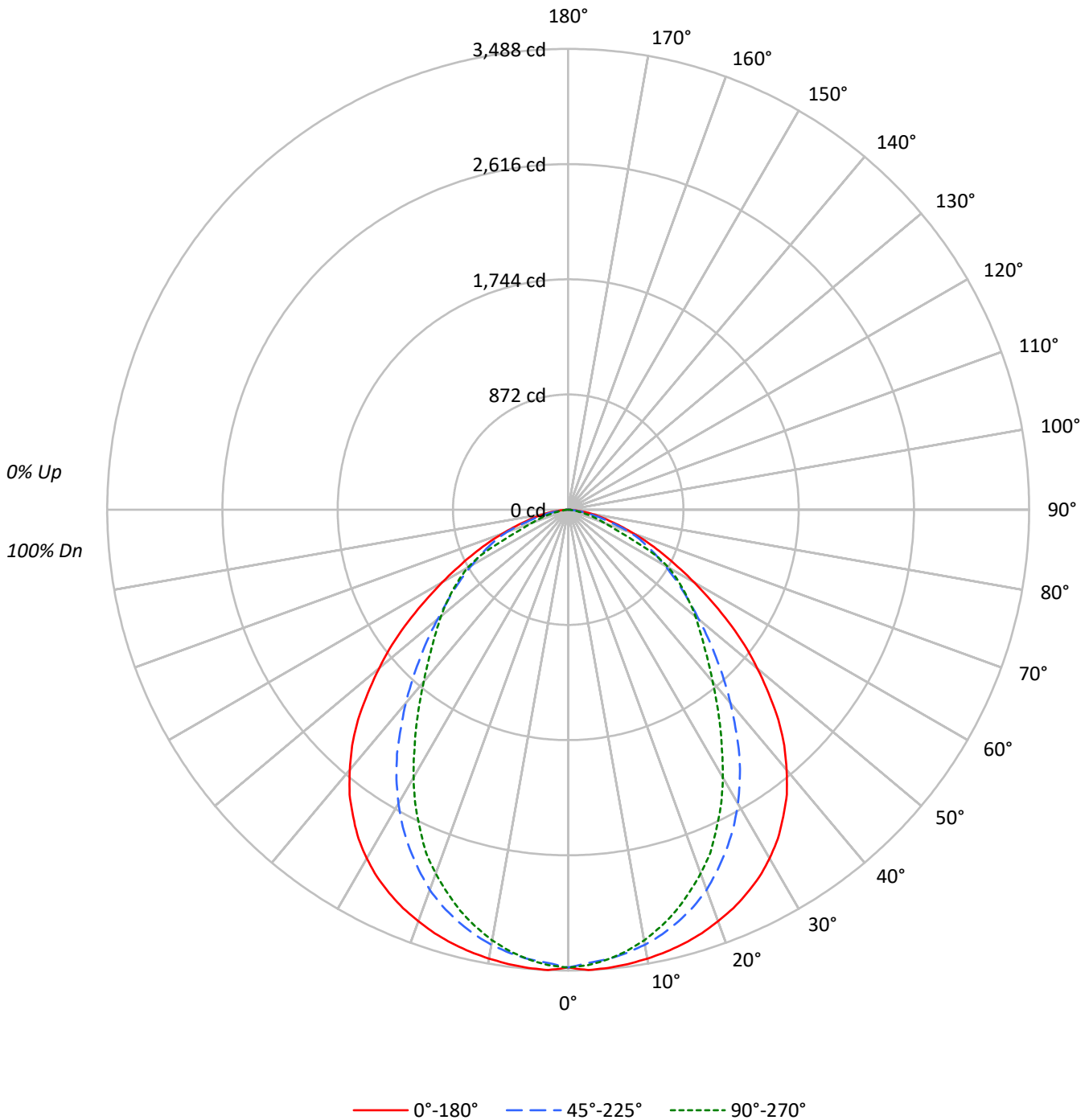
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7355.8 lumens
Efficiency: N/A
Efficacy: 255.4 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.05 / 1.18
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	110	106	102	99	108	104	101	97	100	97	94	96	94	92	92	91	89					87				
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77					75				
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66					64				
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58					56				
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51					49				
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46					44				
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	45	41					39				
8	64	52	44	38	63	51	43	38	50	43	38	48	42	37	47	42	37					35				
9	60	48	40	34	59	47	39	34	46	39	34	45	39	34	44	38	34					32				
10	57	44	37	32	55	44	36	31	43	36	31	42	36	31	41	35	31					29				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4662	4662	4662
5°	4702	4613	4616
10°	4714	4567	4522
15°	4734	4493	4381
20°	4746	4385	4196
25°	4755	4209	3946
30°	4735	3992	3636
35°	4660	3709	3291
40°	4515	3356	2986
45°	4279	3010	2763
50°	3910	2698	2633
55°	3471	2465	2505
60°	2961	2271	2363
65°	2500	2126	1687
70°	2067	1936	1144
75°	1673	1422	896
80°	1389	1016	552
85°	959	426	372



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.0	4.4
10°-20°	916.2	12.5
20°-30°	1326.9	18.0
30°-40°	1456.4	19.8
40°-50°	1315.9	17.9
50°-60°	1026.0	13.9
60°-70°	649.5	8.8
70°-80°	284.4	3.9
80°-90°	54.5	0.7
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°	2569.1	34.9
0°-40°	4025.5	54.7
0°-60°	6367.4	86.6
0°-90°	7355.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7355.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3465	3465	3465	3465	3465	
5°	3481	3458	3416	3434	3418	331
15°	3398	3335	3226	3187	3145	960
25°	3203	3063	2835	2728	2658	1475
35°	2837	2583	2258	2077	2004	1772
45°	2249	1892	1582	1488	1452	1724
55°	1480	1186	1051	1066	1068	1322
65°	785	653	668	639	530	787
75°	322	331	274	197	172	352
85°	62	59	28	25	24	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3464.9	3464.9	3464.9	3464.9	3464.9
2.5°	3487.9	3468.4	3433.9	3460.4	3451.2
5°	3481.0	3458.1	3415.5	3433.9	3417.8
7.5°	3468.4	3440.8	3384.5	3390.2	3370.7
10°	3450.0	3413.2	3343.1	3336.2	3309.8
12.5°	3427.0	3377.6	3291.4	3267.2	3232.7
15°	3398.3	3335.0	3225.8	3186.7	3145.4
17.5°	3361.5	3281.0	3151.1	3087.9	3040.7
20°	3314.3	3217.8	3062.6	2979.8	2930.4
22.5°	3264.9	3145.4	2952.2	2866.0	2810.8
25°	3202.8	3062.6	2835.0	2728.0	2657.9
27.5°	3132.7	2967.2	2708.5	2576.3	2506.2
30°	3047.6	2855.7	2569.4	2410.7	2340.6
32.5°	2953.4	2729.2	2417.6	2248.7	2167.0
35°	2837.3	2583.2	2257.8	2077.4	2003.8
37.5°	2717.7	2425.7	2078.5	1910.7	1847.4
40°	2570.5	2259.0	1910.7	1756.6	1700.3
42.5°	2419.9	2073.9	1742.8	1615.2	1569.2
45°	2248.7	1892.3	1581.9	1487.6	1452.0
47.5°	2056.7	1711.8	1433.6	1374.9	1349.7
50°	1868.1	1531.3	1288.7	1265.7	1257.7
52.5°	1680.7	1354.2	1163.4	1165.7	1161.1
55°	1479.6	1186.4	1050.8	1065.7	1068.0
57.5°	1279.5	1026.6	945.0	972.6	974.9
60°	1100.2	889.8	843.8	877.2	878.3
62.5°	934.6	762.2	751.9	784.0	746.1
65°	785.2	653.0	667.9	639.2	530.0
67.5°	651.8	562.2	586.3	447.2	375.9
70°	525.4	473.6	492.0	333.4	290.9
72.5°	415.0	400.1	372.5	259.8	226.5
75°	321.9	331.1	273.6	196.6	172.4
77.5°	246.0	269.0	198.9	141.4	118.4
80°	179.3	201.2	131.1	85.1	71.3
82.5°	118.4	126.5	69.0	43.7	37.9
85°	62.1	58.6	27.6	25.3	24.1
87.5°	26.4	14.9	13.8	11.5	11.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)