

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: P289569

Luminaire Tested: **8RSRK-RM-100-HE-L935**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P289569
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-L935
Description: 8ft RSRK, 1000 LUMEN PER FOOT 90CRI 3500K CCT WITH ROUND MEDIUM LENS
Light Source: -
Ballast/Driver: -

Summary

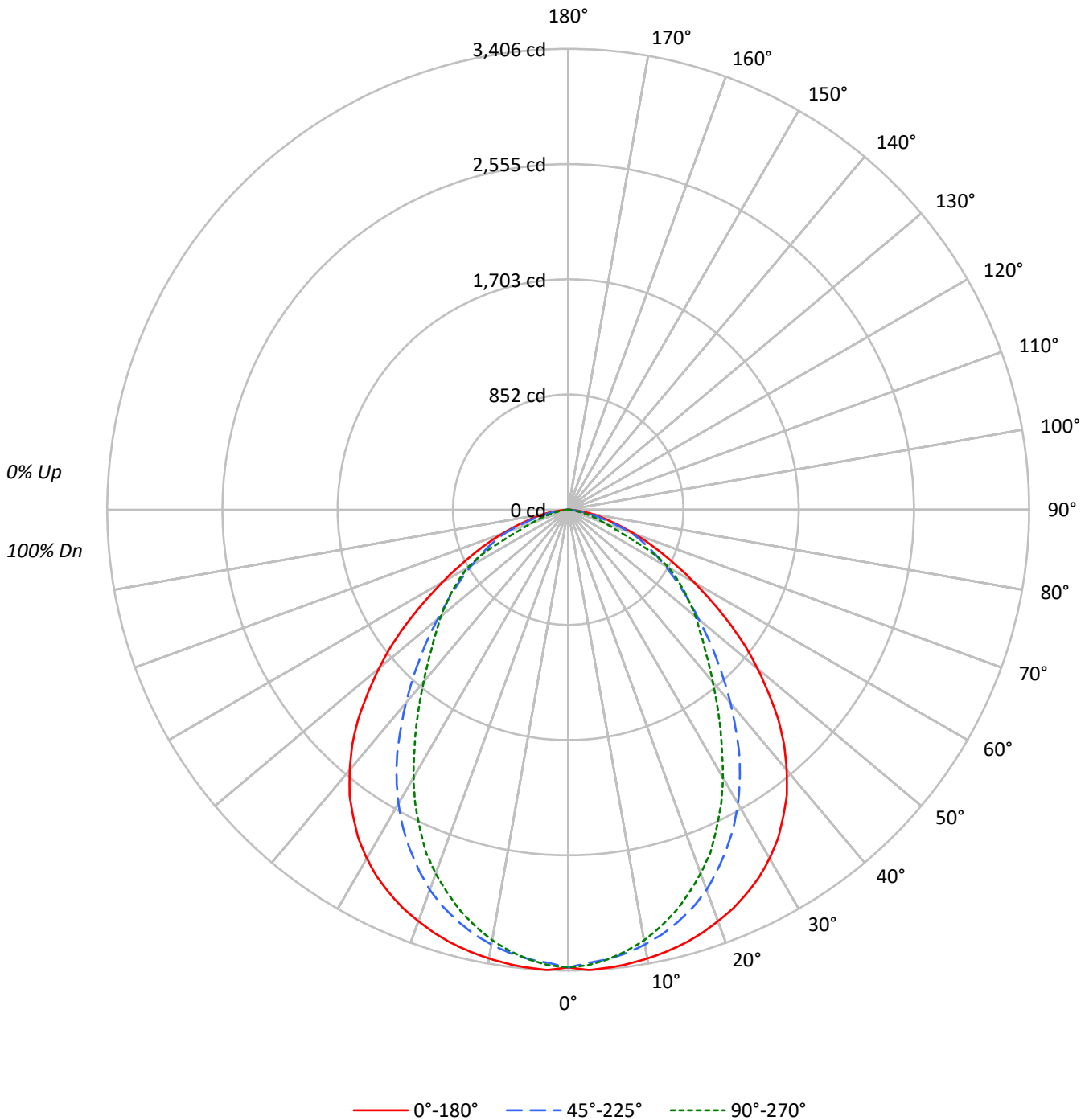
Lumens per Lamp: N/A
Luminaire Lumens: 7181.9 lumens
Efficiency: N/A
Efficacy: 249.4 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.05 / 1.18
Luminous Opening: Rectangular (W 1' x L: 8' x H: 0')
CIE Type: Direct

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					87			
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75					75			
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64					64			
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56					56			
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49					49			
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44					44			
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	45	41	39					39			
8	64	52	44	38	63	51	43	38	50	43	38	48	42	37	47	42	37	35					35			
9	60	48	40	34	59	47	39	34	46	39	34	45	39	34	44	38	34	32					32			
10	57	44	37	32	55	44	36	31	43	36	31	42	36	31	41	35	31	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4552	4552	4552
5°	4590	4504	4507
10°	4602	4459	4415
15°	4622	4387	4278
20°	4633	4281	4097
25°	4642	4109	3853
30°	4623	3897	3551
35°	4550	3621	3213
40°	4408	3277	2916
45°	4178	2939	2697
50°	3818	2634	2570
55°	3389	2407	2446
60°	2891	2217	2308
65°	2441	2076	1647
70°	2018	1890	1117
75°	1634	1389	875
80°	1357	992	539
85°	936	415	364



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.3	4.4
10°-20°	894.5	12.5
20°-30°	1295.5	18.0
30°-40°	1422.0	19.8
40°-50°	1284.7	17.9
50°-60°	1001.7	13.9
60°-70°	634.1	8.8
70°-80°	277.7	3.9
80°-90°	53.2	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°	2508.3	34.9
0°-40°	3930.3	54.7
0°-60°	6216.8	86.6
0°-90°	7181.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7181.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3383	3383	3383	3383	3383	
5°	3399	3376	3335	3353	3337	323
15°	3318	3256	3150	3111	3071	937
25°	3127	2990	2768	2664	2595	1441
35°	2770	2522	2204	2028	1956	1730
45°	2196	1848	1544	1452	1418	1683
55°	1445	1158	1026	1040	1043	1291
65°	767	638	652	624	517	768
75°	314	323	267	192	168	344
85°	61	57	27	25	24	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3383.0	3383.0	3383.0	3383.0	3383.0
2.5°	3405.5	3386.4	3352.7	3378.5	3369.5
5°	3398.7	3376.3	3334.7	3352.7	3337.0
7.5°	3386.4	3359.4	3304.4	3310.0	3291.0
10°	3368.4	3332.5	3264.0	3257.3	3231.5
12.5°	3346.0	3297.7	3213.5	3189.9	3156.3
15°	3317.9	3256.2	3149.5	3111.4	3071.0
17.5°	3282.0	3203.4	3076.6	3014.8	2968.8
20°	3236.0	3141.7	2990.2	2909.3	2861.1
22.5°	3187.7	3071.0	2882.4	2798.2	2744.3
25°	3127.1	2990.2	2767.9	2663.5	2595.1
27.5°	3058.6	2897.0	2644.4	2515.4	2446.9
30°	2975.6	2788.1	2508.6	2353.7	2285.3
32.5°	2883.5	2664.7	2360.5	2195.5	2115.8
35°	2770.2	2522.1	2204.5	2028.2	1956.4
37.5°	2653.4	2368.3	2029.4	1865.5	1803.7
40°	2509.8	2205.6	1865.5	1715.1	1660.1
42.5°	2362.7	2024.9	1701.6	1577.0	1532.1
45°	2195.5	1847.5	1544.5	1452.4	1417.6
47.5°	2008.0	1671.3	1399.7	1342.4	1317.7
50°	1824.0	1495.1	1258.2	1235.8	1227.9
52.5°	1641.0	1322.2	1135.9	1138.1	1133.7
55°	1444.6	1158.3	1025.9	1040.5	1042.7
57.5°	1249.3	1002.3	922.6	949.6	951.8
60°	1074.2	868.8	823.9	856.4	857.5
62.5°	912.5	744.2	734.1	765.5	728.5
65°	766.6	637.5	652.1	624.1	517.4
67.5°	636.4	548.9	572.4	436.6	367.0
70°	513.0	462.4	480.4	325.5	284.0
72.5°	405.2	390.6	363.7	253.7	221.1
75°	314.3	323.3	267.1	191.9	168.4
77.5°	240.2	262.6	194.2	138.1	115.6
80°	175.1	196.4	128.0	83.1	69.6
82.5°	115.6	123.5	67.3	42.7	37.0
85°	60.6	57.2	26.9	24.7	23.6
87.5°	25.8	14.6	13.5	11.2	11.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)