

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: P289481

Luminaire Tested: **4RSRK-RM-65-HE-L930**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P289481  
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: 4RSRK-RM-65-HE-L930  
Description: 4ft RSRK, 650 LUMEN PER FOOT 90CRI 3000K CCT WITH ROUND MEDIUM LENS  
Light Source: -  
Ballast/Driver: -

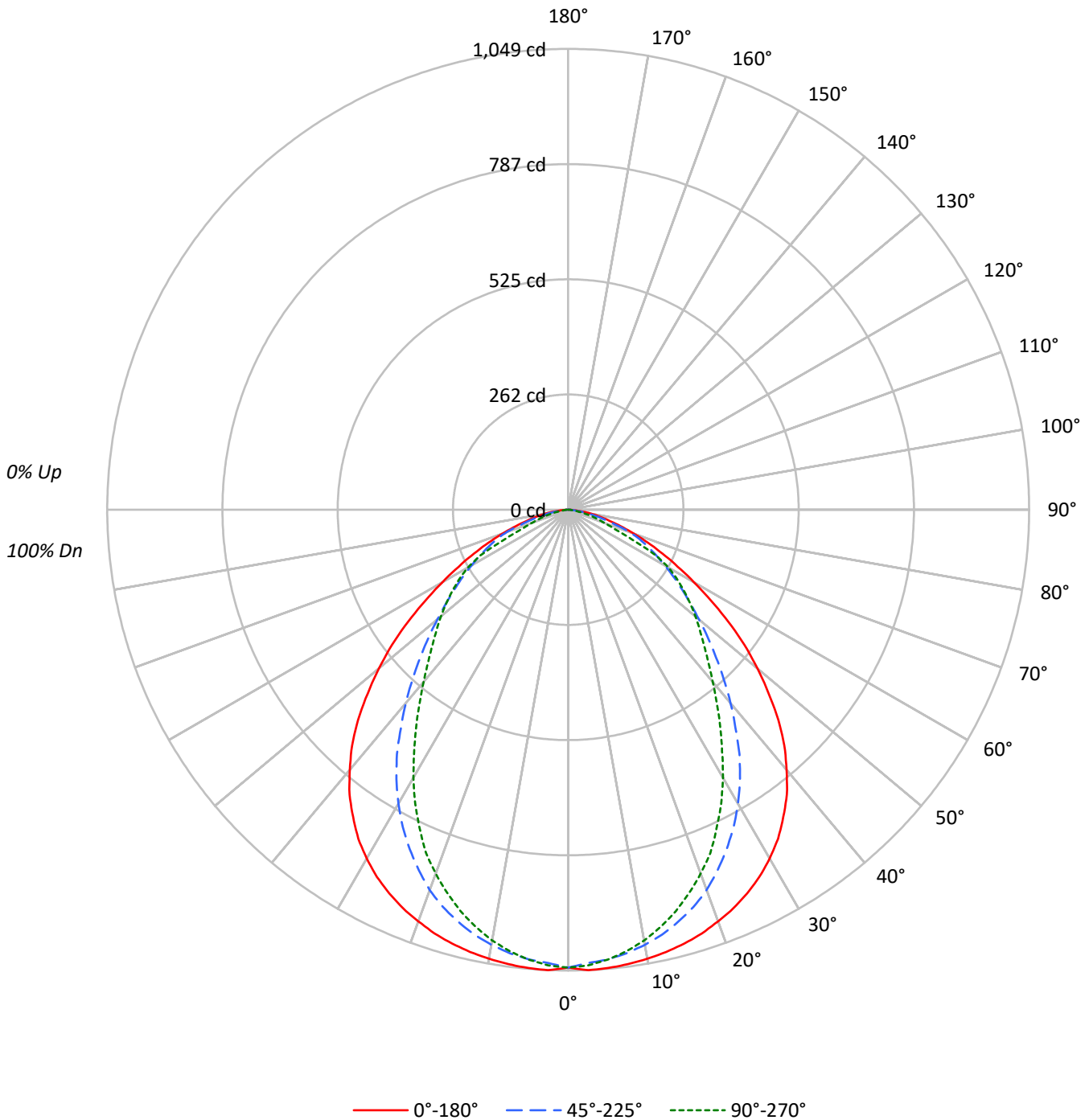
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2212.9 lumens  
Efficiency: N/A  
Efficacy: 117.1 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 1.05 / 1.18  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 18.9  
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°	2805	2805	2805
5°	2829	2776	2777
10°	2836	2748	2721
15°	2848	2703	2636
20°	2855	2638	2525
25°	2861	2532	2374
30°	2849	2402	2188
35°	2804	2231	1980
40°	2716	2019	1797
45°	2575	1811	1662
50°	2353	1623	1584
55°	2088	1483	1507
60°	1781	1366	1422
65°	1504	1279	1015
70°	1244	1164	688
75°	1006	856	540
80°	837	611	332
85°	577	256	225



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.1	4.4
10°-20°	275.6	12.5
20°-30°	399.2	18.0
30°-40°	438.1	19.8
40°-50°	395.9	17.9
50°-60°	308.7	13.9
60°-70°	195.4	8.8
70°-80°	85.5	3.9
80°-90°	16.4	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°	772.9	34.9
0°-40°	1211.0	54.7
0°-60°	1915.5	86.6
0°-90°	2212.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2212.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1042	1042	1042	1042	1042	
5°	1047	1040	1028	1033	1028	100
15°	1022	1003	970	959	946	289
25°	964	921	853	821	800	444
35°	854	777	679	625	603	533
45°	676	569	476	448	437	519
55°	445	357	316	321	321	398
65°	236	196	201	192	159	237
75°	97	100	82	59	52	106
85°	19	18	8	8	7	24
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1042.4	1042.4	1042.4	1042.4	1042.4
2.5°	1049.3	1043.4	1033.0	1041.0	1038.2
5°	1047.2	1040.3	1027.5	1033.0	1028.2
7.5°	1043.4	1035.1	1018.2	1019.9	1014.0
10°	1037.9	1026.8	1005.7	1003.6	995.7
12.5°	1031.0	1016.1	990.2	982.9	972.5
15°	1022.3	1003.3	970.4	958.7	946.2
17.5°	1011.3	987.0	948.0	928.9	914.8
20°	997.1	968.0	921.3	896.4	881.6
22.5°	982.2	946.2	888.1	862.2	845.6
25°	963.5	921.3	852.9	820.7	799.6
27.5°	942.4	892.6	814.8	775.0	753.9
30°	916.8	859.1	773.0	725.2	704.1
32.5°	888.5	821.0	727.3	676.5	651.9
35°	853.5	777.1	679.2	624.9	602.8
37.5°	817.6	729.7	625.3	574.8	555.8
40°	773.3	679.6	574.8	528.5	511.5
42.5°	728.0	623.9	524.3	485.9	472.1
45°	676.5	569.3	475.9	447.5	436.8
47.5°	618.7	515.0	431.3	413.6	406.0
50°	562.0	460.7	387.7	380.8	378.4
52.5°	505.6	407.4	350.0	350.7	349.3
55°	445.1	356.9	316.1	320.6	321.3
57.5°	384.9	308.8	284.3	292.6	293.3
60°	331.0	267.7	253.9	263.9	264.2
62.5°	281.2	229.3	226.2	235.9	224.5
65°	236.2	196.4	200.9	192.3	159.4
67.5°	196.1	169.1	176.4	134.5	113.1
70°	158.1	142.5	148.0	100.3	87.5
72.5°	124.8	120.4	112.1	78.2	68.1
75°	96.8	99.6	82.3	59.1	51.9
77.5°	74.0	80.9	59.8	42.5	35.6
80°	54.0	60.5	39.4	25.6	21.4
82.5°	35.6	38.0	20.8	13.1	11.4
85°	18.7	17.6	8.3	7.6	7.3
87.5°	8.0	4.5	4.2	3.5	3.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)