

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: P289590

Luminaire Tested: **8RSRK-RM-200-HE-L840**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P289590  
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-200-HE-L840  
Description: 8ft RSRK, 2000 LUMEN PER FOOT 80CRI 4000K CCT WITH ROUND MEDIUM LENS  
Light Source: -  
Ballast/Driver: -

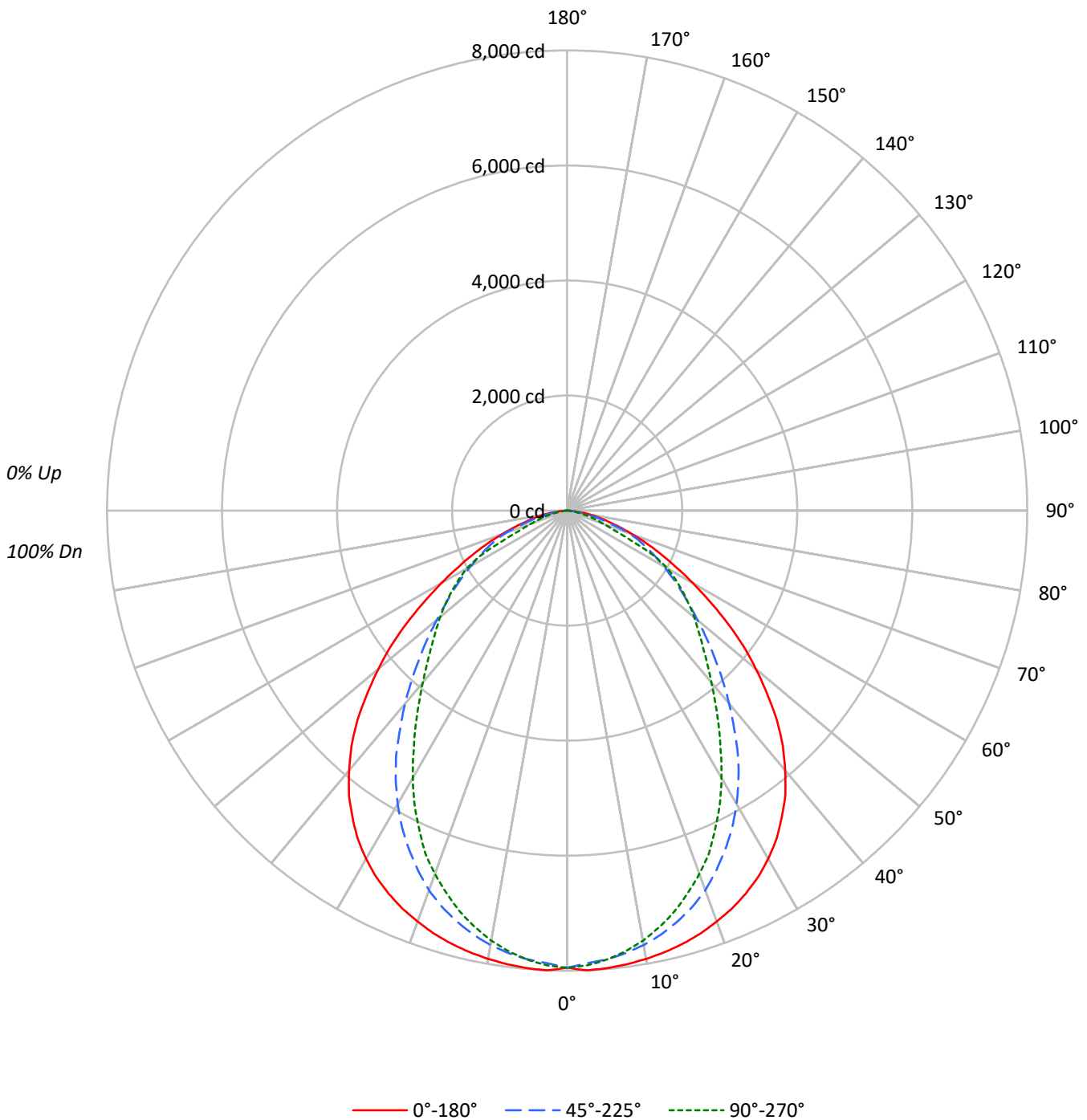
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16871.4 lumens  
Efficiency: N/A  
Efficacy: 275.7 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): 61.2  
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°	10693	10693	10693
5°	10784	10581	10588
10°	10811	10476	10372
15°	10857	10306	10049
20°	10885	10058	9624
25°	10906	9653	9050
30°	10860	9156	8341
35°	10689	8506	7549
40°	10355	7697	6850
45°	9814	6904	6337
50°	8969	6187	6038
55°	7960	5653	5746
60°	6790	5208	5421
65°	5734	4877	3870
70°	4740	4439	2624
75°	3838	3263	2056
80°	3187	2329	1267
85°	2198	977	855



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	747.8	4.4
10°-20°	2101.3	12.5
20°-30°	3043.4	18.0
30°-40°	3340.4	19.8
40°-50°	3018.1	17.9
50°-60°	2353.3	13.9
60°-70°	1489.7	8.8
70°-80°	652.3	3.9
80°-90°	125.1	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°	5892.5	34.9
0°-40°	9233.0	54.7
0°-60°	14604.3	86.6
0°-90°	16871.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16871.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7947	7947	7947	7947	7947	
5°	7984	7931	7834	7876	7839	760
15°	7794	7649	7399	7309	7214	2201
25°	7346	7024	6502	6257	6096	3384
35°	6508	5925	5179	4765	4596	4063
45°	5158	4340	3628	3412	3330	3955
55°	3394	2721	2410	2444	2450	3032
65°	1801	1498	1532	1466	1216	1804
75°	738	759	628	451	396	807
85°	142	134	63	58	55	185
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7947.3	7947.3	7947.3	7947.3	7947.3
2.5°	8000.0	7955.2	7876.1	7936.7	7915.6
5°	7984.2	7931.4	7833.9	7876.1	7839.2
7.5°	7955.2	7891.9	7762.7	7775.9	7731.1
10°	7913.0	7828.6	7667.8	7651.9	7591.3
12.5°	7860.3	7746.9	7549.1	7493.7	7414.6
15°	7794.3	7649.3	7398.8	7309.2	7214.2
17.5°	7710.0	7525.4	7227.4	7082.4	6974.3
20°	7601.8	7380.4	7024.4	6834.5	6721.2
22.5°	7488.5	7214.2	6771.3	6573.5	6446.9
25°	7346.1	7024.4	6502.3	6257.1	6096.2
27.5°	7185.2	6805.5	6212.3	5909.0	5748.2
30°	6990.1	6549.8	5893.2	5529.3	5368.5
32.5°	6773.9	6259.7	5545.2	5157.5	4970.3
35°	6507.6	5924.9	5178.6	4764.7	4595.9
37.5°	6233.4	5563.6	4767.3	4382.3	4237.3
40°	5895.8	5181.3	4382.3	4029.0	3899.8
42.5°	5550.4	4756.8	3997.4	3704.7	3599.2
45°	5157.5	4340.1	3628.2	3412.0	3330.3
47.5°	4717.2	3926.2	3288.1	3153.6	3095.6
50°	4284.8	3512.2	2955.8	2903.1	2884.6
52.5°	3855.0	3106.1	2668.4	2673.7	2663.2
55°	3393.5	2721.2	2410.0	2444.3	2449.6
57.5°	2934.7	2354.6	2167.4	2230.7	2236.0
60°	2523.4	2040.9	1935.4	2011.9	2014.5
62.5°	2143.7	1748.2	1724.5	1798.3	1711.3
65°	1800.9	1497.7	1532.0	1466.1	1215.6
67.5°	1495.1	1289.4	1344.8	1025.7	862.2
70°	1205.0	1086.4	1128.5	764.7	667.1
72.5°	951.9	917.6	854.3	595.9	519.4
75°	738.3	759.4	627.6	450.9	395.5
77.5°	564.3	617.0	456.2	324.3	271.6
80°	411.3	461.4	300.6	195.1	163.5
82.5°	271.6	290.0	158.2	100.2	87.0
85°	142.4	134.5	63.3	58.0	55.4
87.5°	60.6	34.3	31.6	26.4	26.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)