

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: RSA

Report Number: P219813

Luminaire Tested: **MRZ-1-REC-X-4-L27-80-FL-UNV-X-STD-SFL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P219813  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14878)  
Test Lab: INNOVATION CENTER (G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: RSA  
Catalog Number: MRZ-1-REC-X-4-L27-80-FL-UNV-X-STD-SFL  
Description: MRZ INTEGRAL LED DOWNLIGHT  
40 DEGREE FLOOD OPTIC WITH SOFT FOCUS LENS, LIGHT LEVEL 4  
Light Source: (1) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1490.8 lumens  
Efficiency: N/A  
Efficacy: 94.4 lumens/watt  
Spacing Criteria (0/90/45): 0.7 / 0.7 / 0.66  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

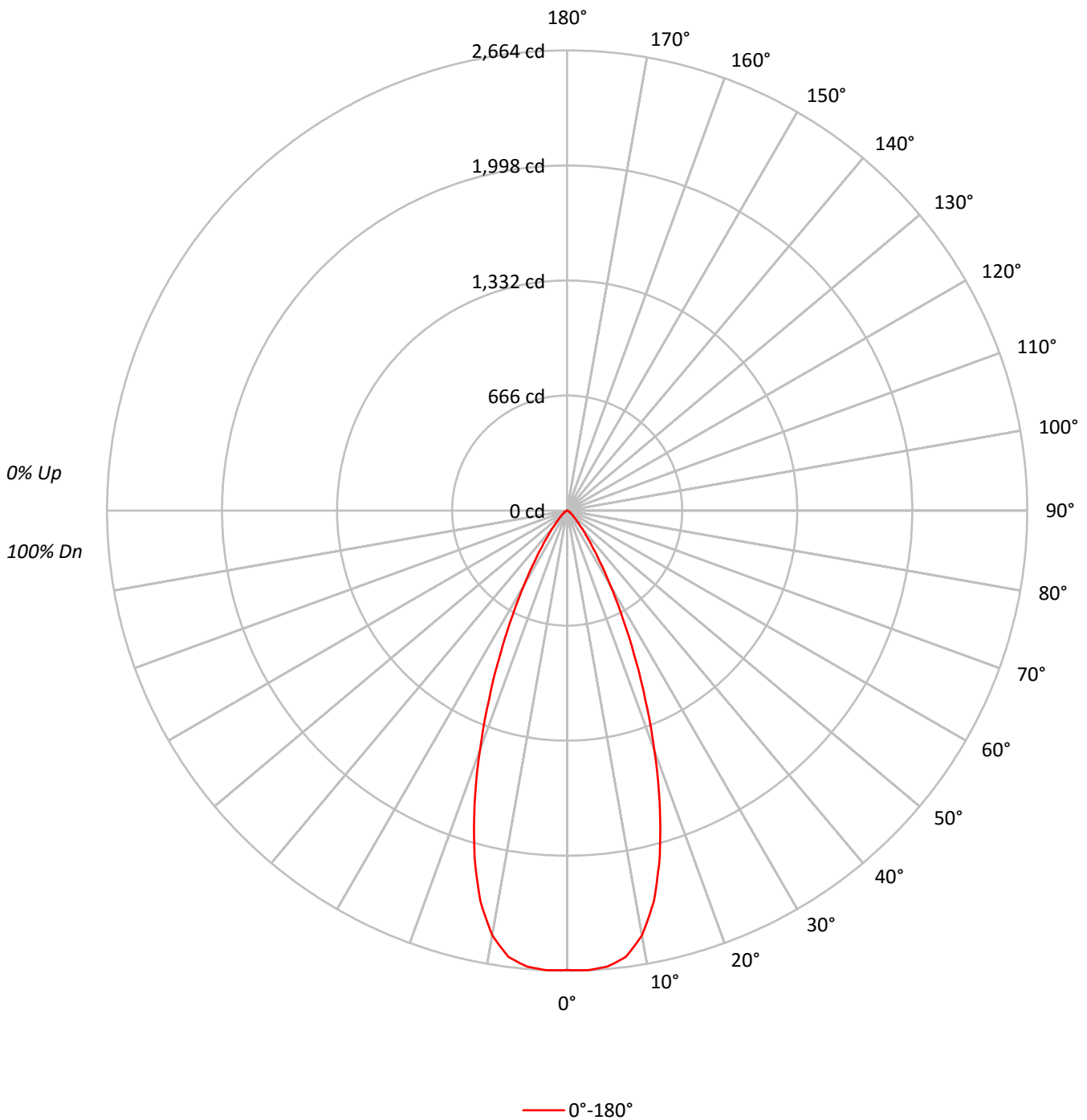
Input Watts (W): 15.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	114	111	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	94
2	109	105	101	98	107	103	99	97	100	97	95	97	94	93	94	92	91	89
3	104	98	94	90	102	97	93	90	94	91	88	92	89	87	90	88	85	84
4	100	93	88	84	98	92	87	84	90	86	83	88	84	82	86	83	81	79
5	95	88	83	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75
6	91	83	78	74	90	83	78	74	81	77	73	80	76	73	79	75	73	71
7	88	79	74	70	86	79	74	70	77	73	70	76	72	69	75	72	69	68
8	84	76	70	67	83	75	70	66	74	69	66	73	69	66	72	68	66	64
9	81	72	67	63	80	72	67	63	71	66	63	70	66	63	69	65	63	61
10	78	69	64	60	77	69	64	60	68	63	60	67	63	60	66	63	60	59

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	1312390
5°	1312945
10°	1250874
15°	1058345
20°	775489
25°	497622
30°	283884
35°	151118
40°	80830
45°	46260
50°	28860
55°	20042
60°	14111
65°	10507
70°	7790
75°	6863
80°	5114
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	248.4	16.7
10°-20°	563.3	37.8
20°-30°	422.6	28.3
30°-40°	167.8	11.3
40°-50°	54.8	3.7
50°-60°	21.3	1.4
60°-70°	9.1	0.6
70°-80°	3.3	0.2
80°-90°	0.2	0.0
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°	1234.3	82.8
0°-40°	1402.1	94.0
0°-60°	1478.2	99.2
0°-90°	1490.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1490.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2660	
5°	2651	248
15°	2072	563
25°	914	423
35°	251	168
45°	66	55
55°	23	21
65°	9	9
75°	4	3
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2660.0
2.5°	2663.5
5°	2651.0
7.5°	2606.2
10°	2496.8
12.5°	2317.6
15°	2072.0
17.5°	1783.5
20°	1477.0
22.5°	1181.2
25°	914.1
27.5°	684.7
30°	498.3
32.5°	356.7
35°	250.9
37.5°	177.4
40°	125.5
42.5°	91.4
45°	66.3
47.5°	48.4
50°	37.6
52.5°	28.7
55°	23.3
57.5°	17.9
60°	14.3
62.5°	10.8
65°	9.0
67.5°	7.2
70°	5.4
72.5°	3.6
75°	3.6
77.5°	1.8
80°	1.8
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)