

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: P219817

Luminaire Tested: **MRZ-1-REC-X-4-L27-97-FL-UNV-X-STD-SFL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P219817  
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-L27-97-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, 97 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1063.7 lumens  
Efficiency: N/A  
Efficacy: 67.3 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

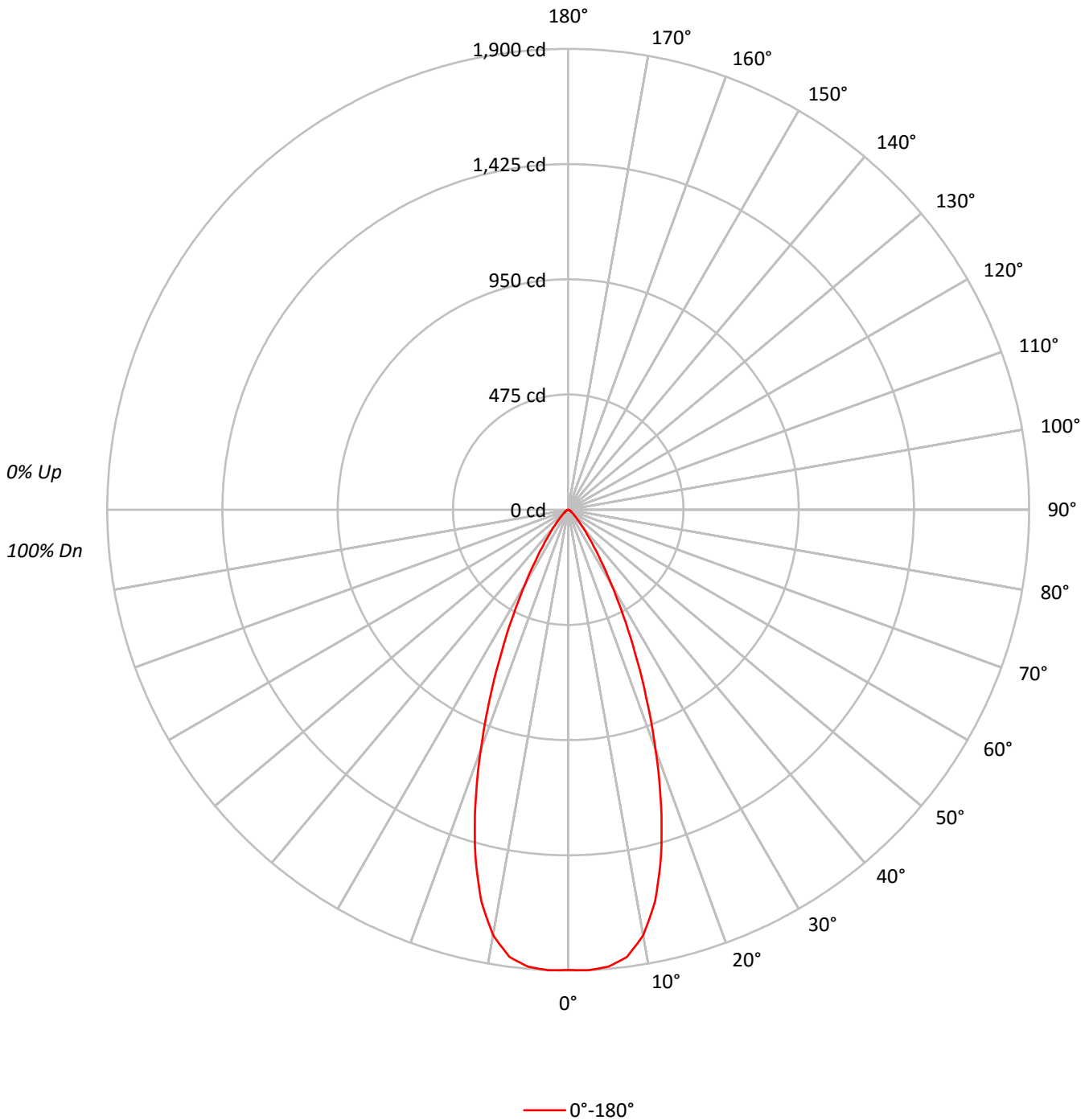
Input Watts (W): 15.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	936385
5°	936792
10°	892515
15°	755143
20°	553291
25°	355047
30°	202530
35°	107813
40°	57643
45°	33003
50°	20647
55°	14279
60°	10065
65°	7472
70°	5482
75°	4956
80°	3694
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	177.2	16.7
10°-20°	401.9	37.8
20°-30°	301.5	28.3
30°-40°	119.7	11.3
40°-50°	39.1	3.7
50°-60°	15.2	1.4
60°-70°	6.5	0.6
70°-80°	2.4	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°	880.7	82.8
0°-40°	1000.4	94.0
0°-60°	1054.7	99.2
0°-90°	1063.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1063.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1898	
5°	1892	177
15°	1478	402
25°	652	302
35°	179	120
45°	47	39
55°	17	15
65°	6	6
75°	3	2
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1897.9
2.5°	1900.4
5°	1891.5
7.5°	1859.5
10°	1781.5
12.5°	1653.6
15°	1478.4
17.5°	1272.5
20°	1053.8
22.5°	842.8
25°	652.2
27.5°	488.5
30°	355.5
32.5°	254.5
35°	179.0
37.5°	126.6
40°	89.5
42.5°	65.2
45°	47.3
47.5°	34.5
50°	26.9
52.5°	20.5
55°	16.6
57.5°	12.8
60°	10.2
62.5°	7.7
65°	6.4
67.5°	5.1
70°	3.8
72.5°	2.6
75°	2.6
77.5°	1.3
80°	1.3
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)