

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: P226193

Luminaire Tested: **MRZ-1-REC-X-1-L40-97-WFL-UNV-X-STD-SFL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P226193  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14883)  
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-1-L40-97-WFL-UNV-X-STD-SFL  
Description: MRZ INTEGRAL LED DOWNLIGHT  
55 DEGREE WIDE FLOOD OPTIC WITH SOFT FOCUS LENS, LIGHT LEVEL 1  
Light Source: (1) 4000K CCT, 97 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 432.9 lumens  
Efficiency: N/A  
Efficacy: 80.2 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.9  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

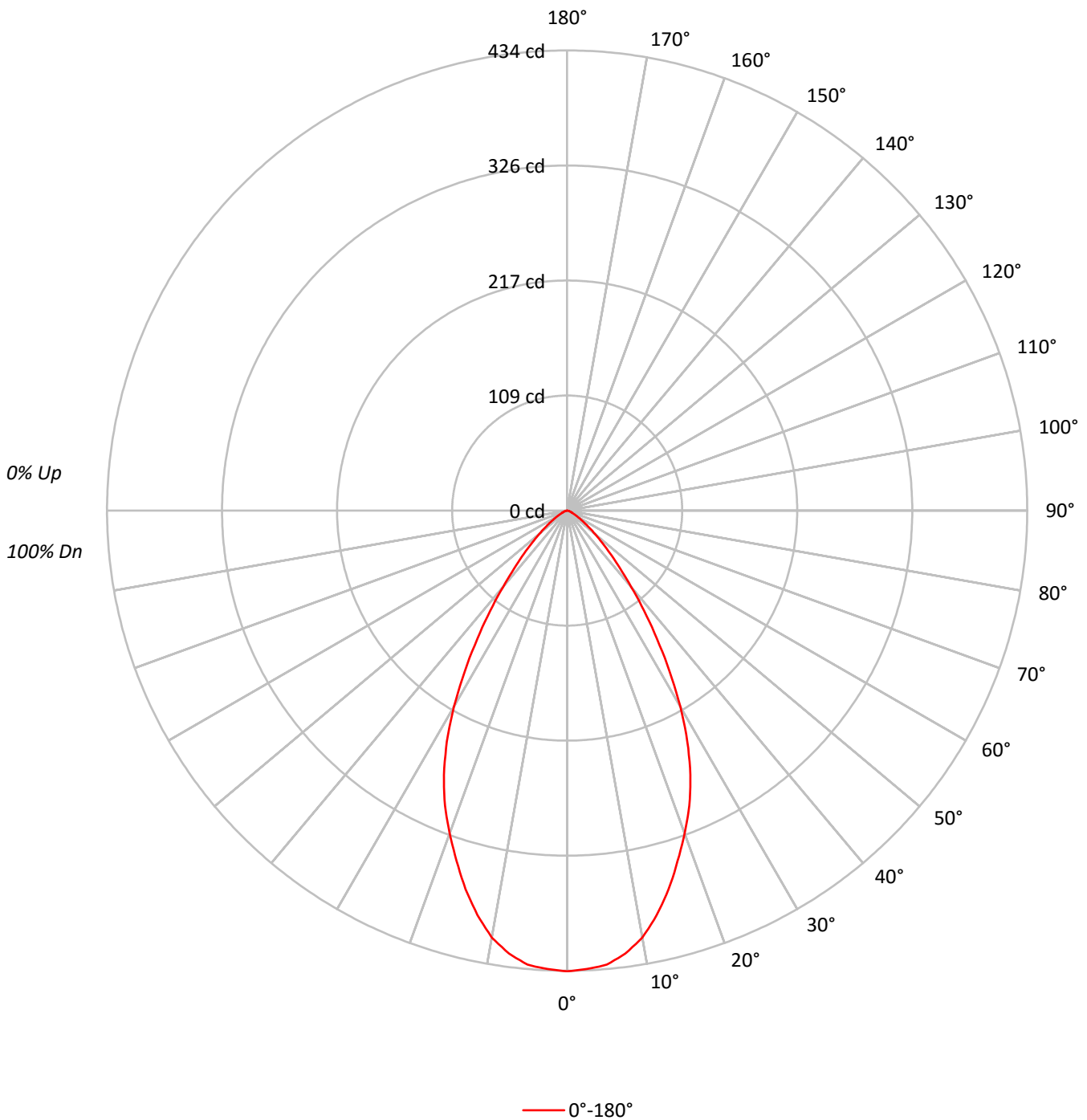
Input Watts (W): 5.4  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78
4	95	87	81	76	93	86	80	76	83	79	75	81	77	74	79	76	73	71
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	74	71	67	66
6	85	75	69	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54	53
9	72	62	55	51	71	61	55	51	60	55	51	59	54	51	58	54	50	49
10	68	58	52	48	67	58	52	48	57	51	48	56	51	47	55	51	47	46

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

	0°
0°	214373
5°	212914
10°	204855
15°	188888
20°	170062
25°	149706
30°	121518
35°	88840
40°	60671
45°	39981
50°	26097
55°	16601
60°	10657
65°	6654
70°	4905
75°	3241
80°	1421
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	40.3	9.3
10°-20°	103.2	23.8
20°-30°	124.7	28.8
30°-40°	92.8	21.4
40°-50°	45.7	10.6
50°-60°	18.1	4.2
60°-70°	6.2	1.4
70°-80°	1.9	0.4
80°-90°	0.1	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°	268.2	62.0
0°-40°	361.0	83.4
0°-60°	424.7	98.1
0°-90°	432.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	432.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	434	
5°	430	40
15°	370	103
25°	275	125
35°	148	93
45°	57	46
55°	19	18
65°	6	6
75°	2	2
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	434.5
2.5°	432.8
5°	429.9
7.5°	421.3
10°	408.9
12.5°	390.7
15°	369.8
17.5°	346.5
20°	323.9
22.5°	301.2
25°	275.0
27.5°	245.6
30°	213.3
32.5°	179.8
35°	147.5
37.5°	119.1
40°	94.2
42.5°	73.7
45°	57.3
47.5°	44.3
50°	34.0
52.5°	25.5
55°	19.3
57.5°	14.2
60°	10.8
62.5°	7.9
65°	5.7
67.5°	4.6
70°	3.4
72.5°	2.2
75°	1.7
77.5°	1.2
80°	0.5
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)