

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: P219793

Luminaire Tested: **MRZ-1-REC-X-1H-L40-80-FL-UNV-X-STD-SFL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P219793  
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-1H-L40-80-FL-UNV-X-STD-SFL  
Description: MRZ INTEGRAL LED DOWNLIGHT  
40 DEGREE FLOOD OPTIC WITH SOFT FOCUS LENS, LIGHT LEVEL 1  
Light Source: (1) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 677.6 lumens  
Efficiency: N/A  
Efficacy: 99.6 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

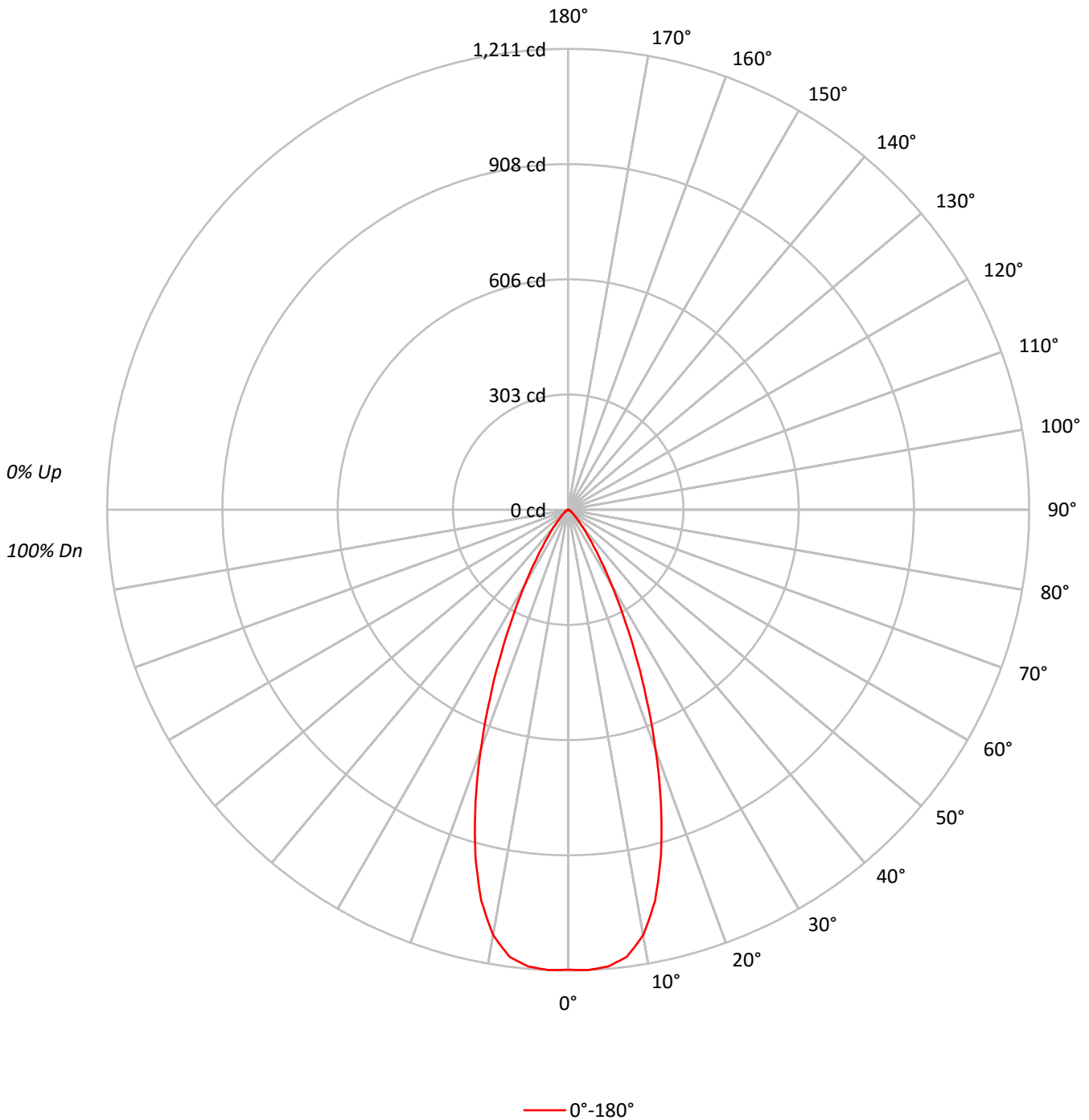
Input Watts (W): 6.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	596496
5°	596793
10°	568574
15°	481056
20°	352462
25°	226192
30°	129038
35°	68723
40°	36711
45°	21002
50°	13125
55°	9118
60°	6414
65°	4786
70°	3462
75°	3050
80°	2273
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.9	16.7
10°-20°	256.0	37.8
20°-30°	192.1	28.4
30°-40°	76.3	11.3
40°-50°	24.9	3.7
50°-60°	9.7	1.4
60°-70°	4.1	0.6
70°-80°	1.5	0.2
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°	561.0	82.8
0°-40°	637.3	94.1
0°-60°	671.9	99.2
0°-90°	677.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	677.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1209	
5°	1205	113
15°	942	256
25°	416	192
35°	114	76
45°	30	25
55°	11	10
65°	4	4
75°	2	1
85°	0	0
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1209.0
2.5°	1210.7
5°	1205.0
7.5°	1184.6
10°	1134.9
12.5°	1053.4
15°	941.8
17.5°	810.6
20°	671.3
22.5°	536.9
25°	415.5
27.5°	311.2
30°	226.5
32.5°	162.1
35°	114.1
37.5°	80.7
40°	57.0
42.5°	41.6
45°	30.1
47.5°	22.0
50°	17.1
52.5°	13.0
55°	10.6
57.5°	8.1
60°	6.5
62.5°	4.9
65°	4.1
67.5°	3.3
70°	2.4
72.5°	1.6
75°	1.6
77.5°	0.8
80°	0.8
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)