

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: P219701

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P219701  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14875)  
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-L27-97-FL-UNV-X-STD  
Description: MRZ INTEGRAL LED DOWNLIGHT  
40 DEGREE FLOOD OPTIC, LIGHT LEVEL 1  
Light Source: (1) 2700K CCT, 97 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

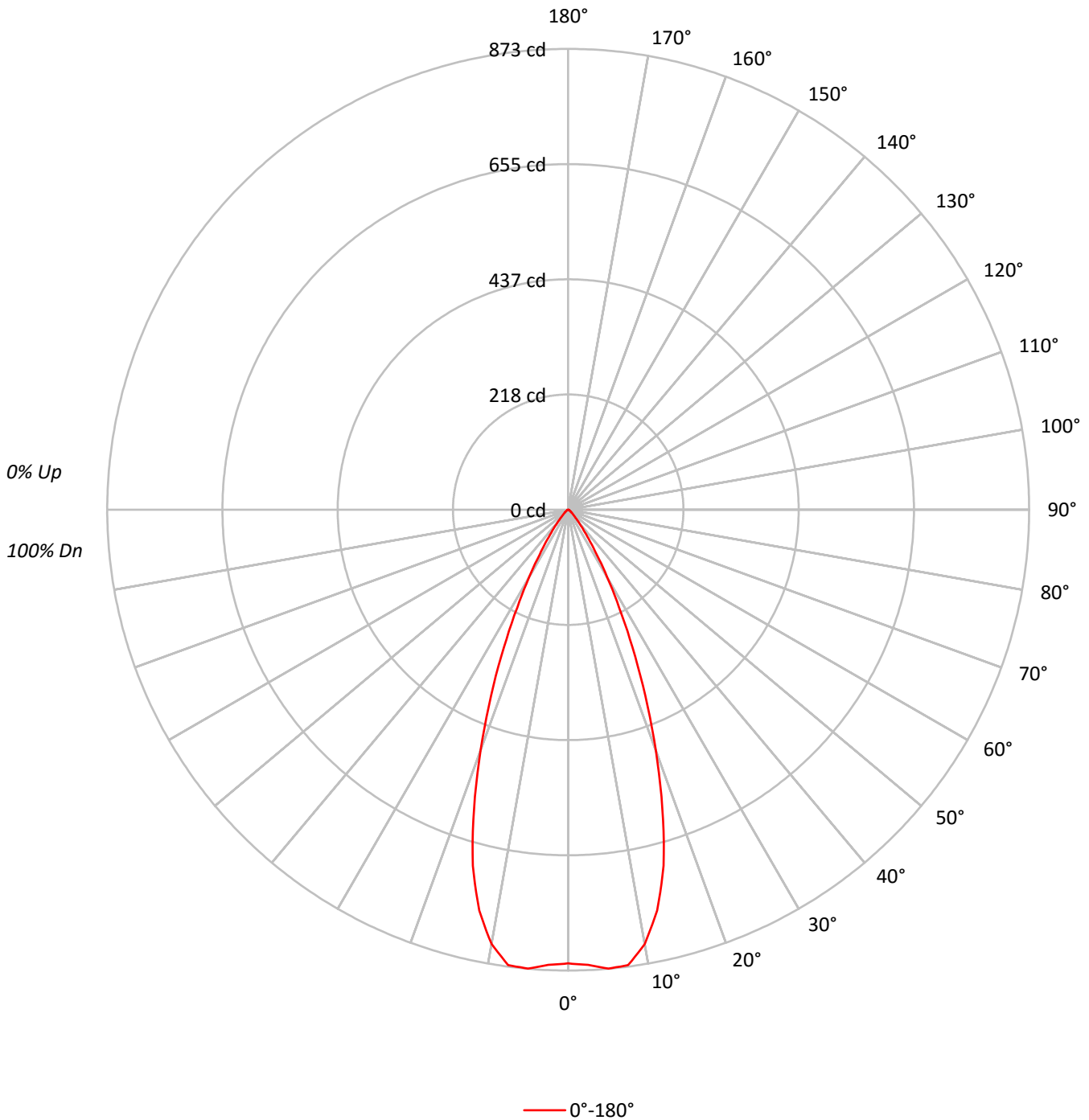
Lumens per Lamp: N/A  
Luminaire Lumens: 469.6 lumens  
Efficiency: N/A  
Efficacy: 69.1 lumens/watt  
Spacing Criteria (0/90/45): 0.7 / 0.7 / 0.66  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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	112	109	107	112	110	108	106	106	104	102	102	101	99	98	97	97	95
2	109	105	101	98	107	103	100	97	100	98	95	97	95	93	95	93	91	90
3	105	99	95	91	103	98	94	91	95	92	89	93	90	88	91	88	86	85
4	100	94	89	85	99	93	88	85	91	87	84	89	86	83	87	84	82	81
5	96	89	84	80	95	88	83	80	86	82	79	85	81	79	83	80	78	77
6	92	85	80	76	91	84	79	76	83	78	75	81	77	75	80	77	74	73
7	89	81	76	72	88	80	75	72	79	75	71	78	74	71	77	73	71	69
8	85	77	72	68	84	77	72	68	76	71	68	75	71	68	74	70	67	66
9	82	74	69	65	81	73	68	65	72	68	65	72	68	65	71	67	64	63
10	79	71	66	62	78	70	65	62	69	65	62	69	65	62	68	64	62	61

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

	0°
0°	424010
5°	432217
10°	418478
15°	356681
20°	254541
25°	156402
30°	84430
35°	40595
40°	19644
45°	10466
50°	6140
55°	4129
60°	2664
65°	1868
70°	1587
75°	953
80°	1421
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.3	17.5
10°-20°	188.2	40.1
20°-30°	133.5	28.4
30°-40°	46.1	9.8
40°-50°	12.5	2.7
50°-60°	4.4	0.9
60°-70°	1.8	0.4
70°-80°	0.8	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°	404.0	86.0
0°-40°	450.1	95.8
0°-60°	467.0	99.4
0°-90°	469.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	469.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	859	
5°	873	82
15°	698	188
25°	287	134
35°	67	46
45°	15	13
55°	5	4
65°	2	2
75°	0	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	859.4
2.5°	863.1
5°	872.7
7.5°	870.1
10°	835.3
12.5°	778.0
15°	698.3
17.5°	592.9
20°	484.8
22.5°	381.0
25°	287.3
27.5°	208.7
30°	148.2
32.5°	100.6
35°	67.4
37.5°	44.9
40°	30.5
42.5°	20.9
45°	15.0
47.5°	10.7
50°	8.0
52.5°	5.9
55°	4.8
57.5°	3.7
60°	2.7
62.5°	2.1
65°	1.6
67.5°	1.6
70°	1.1
72.5°	1.1
75°	0.5
77.5°	0.5
80°	0.5
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)