

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: P219922

Luminaire Tested: **MRZ-1-REC-X-2-L27-80-WFL-UNV-X-STD-SFL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P219922  
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-2-L27-80-WFL-UNV-X-STD-SFL  
Description: MRZ INTEGRAL LED DOWNLIGHT  
55 DEGREE WIDE FLOOD OPTIC WITH SOFT FOCUS LENS, LIGHT LEVEL2  
Light Source: (1) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 782.7 lumens  
Efficiency: N/A  
Efficacy: 88.9 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

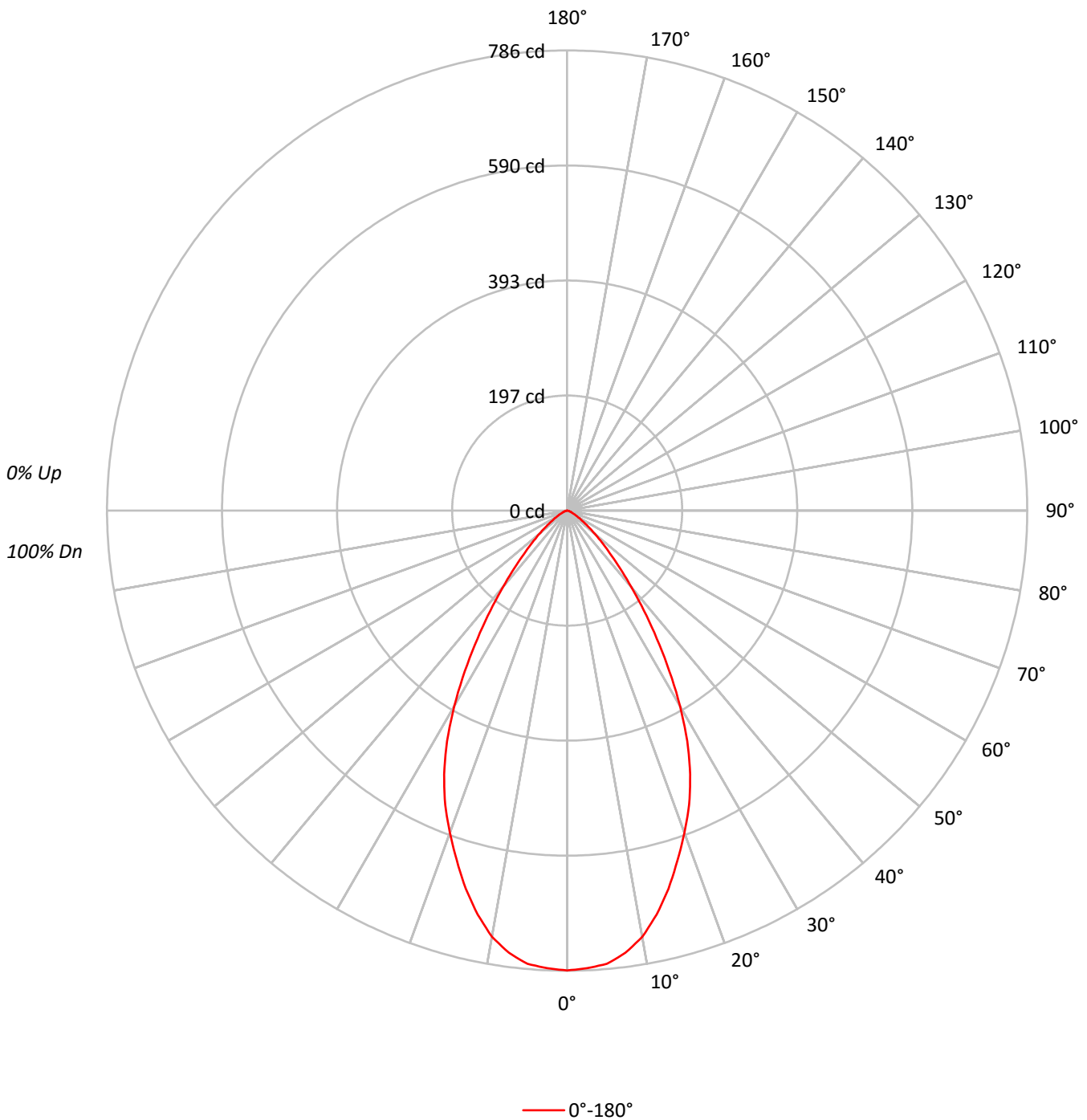
Input Watts (W): 8.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	387550
5°	384969
10°	370382
15°	341510
20°	307413
25°	270722
30°	219678
35°	160575
40°	109619
45°	72286
50°	47205
55°	30020
60°	19242
65°	12025
70°	8944
75°	5909
80°	2841
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.9	9.3
10°-20°	186.5	23.8
20°-30°	225.4	28.8
30°-40°	167.7	21.4
40°-50°	82.6	10.6
50°-60°	32.6	4.2
60°-70°	11.3	1.4
70°-80°	3.4	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°	484.9	62.0
0°-40°	652.6	83.4
0°-60°	767.9	98.1
0°-90°	782.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	782.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	786	
5°	777	73
15°	669	187
25°	497	225
35°	267	168
45°	104	83
55°	35	33
65°	10	11
75°	3	3
85°	0	0
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	785.5
2.5°	782.4
5°	777.3
7.5°	761.9
10°	739.3
12.5°	706.5
15°	668.6
17.5°	626.5
20°	585.5
22.5°	544.5
25°	497.3
27.5°	444.0
30°	385.6
32.5°	325.1
35°	266.6
37.5°	215.3
40°	170.2
42.5°	133.3
45°	103.6
47.5°	80.0
50°	61.5
52.5°	46.1
55°	34.9
57.5°	25.6
60°	19.5
62.5°	14.4
65°	10.3
67.5°	8.2
70°	6.2
72.5°	4.1
75°	3.1
77.5°	2.1
80°	1.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)