

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: P219724

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P219724  
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-4-L27-97-FL-UNV-X-STD  
Description: MRZ INTEGRAL LED DOWNLIGHT  
40 DEGREE FLOOD OPTIC, LIGHT LEVEL 4  
Light Source: (1) 2700K CCT, 97 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1122.5 lumens  
Efficiency: N/A  
Efficacy: 71.0 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

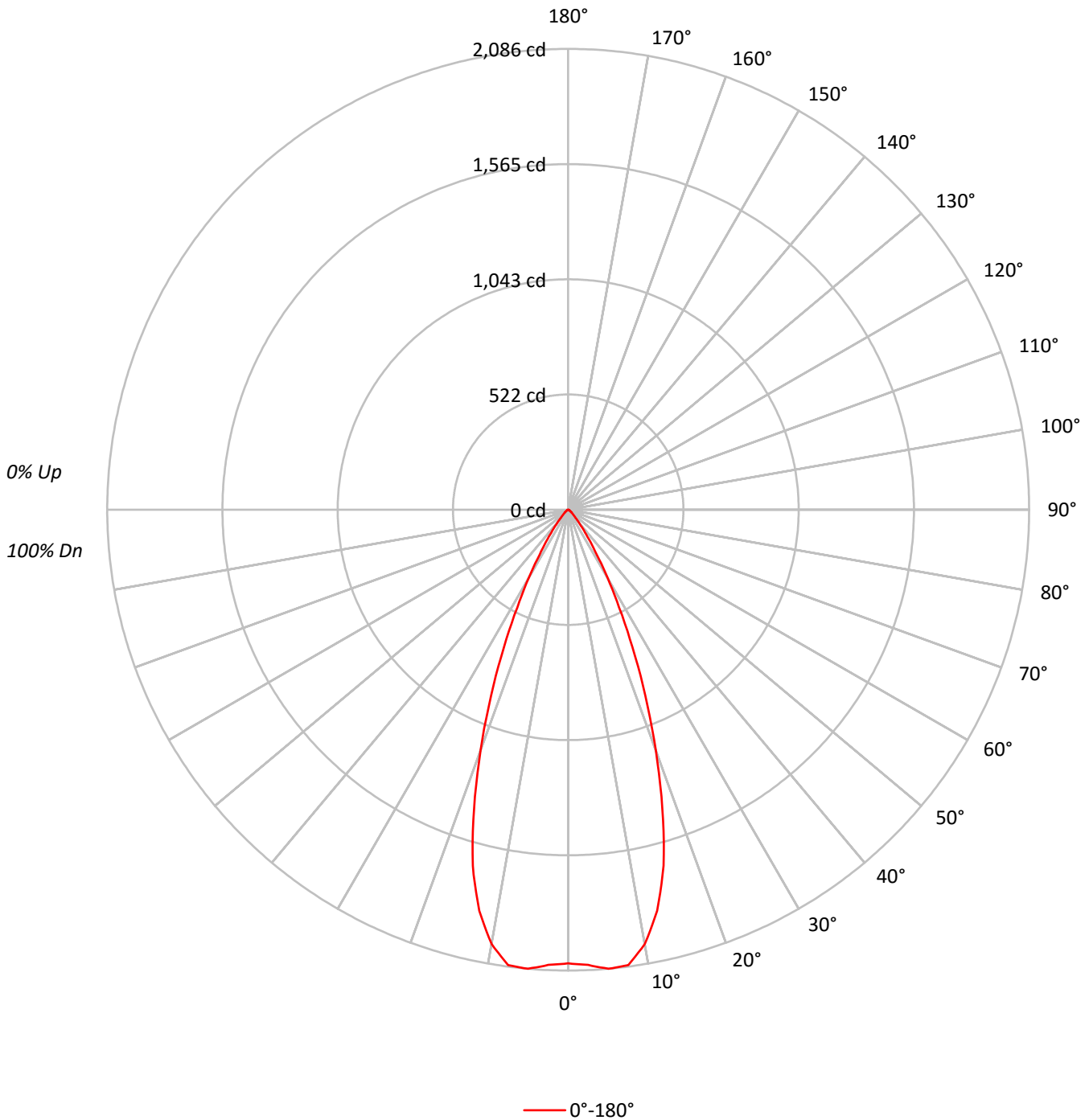
Input Watts (W): 15.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P219724

CATALOG NUMBER: MRZ-1-REC-X-4-L27-97-FL-UNV-X-STD

### Luminous Intensity Polar Plot





TEST NUMBER: P219724

CATALOG NUMBER: MRZ-1-REC-X-4-L27-97-FL-UNV-X-STD

**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°	1013352
5°	1033072
10°	1000128
15°	852448
20°	608368
25°	373883
30°	201847
35°	97031
40°	46952
45°	24979
50°	14737
55°	9892
60°	6315
65°	4436
70°	3751
75°	2478
80°	3694
85°	0



TEST NUMBER: P219724

CATALOG NUMBER: MRZ-1-REC-X-4-L27-97-FL-UNV-X-STD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	196.6	17.5
10°-20°	449.9	40.1
20°-30°	319.1	28.4
30°-40°	110.1	9.8
40°-50°	29.9	2.7
50°-60°	10.5	0.9
60°-70°	4.2	0.4
70°-80°	1.9	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°	965.6	86.0
0°-40°	1075.7	95.8
0°-60°	1116.2	99.4
0°-90°	1122.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1122.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2054	
5°	2086	197
15°	1669	450
25°	687	319
35°	161	110
45°	36	30
55°	12	11
65°	4	4
75°	1	2
85°	0	0
90°	0	



TEST NUMBER: P219724

CATALOG NUMBER: MRZ-1-REC-X-4-L27-97-FL-UNV-X-STD

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2053.9
2.5°	2062.8
5°	2085.9
7.5°	2079.5
10°	1996.3
12.5°	1859.5
15°	1668.9
17.5°	1417.0
20°	1158.7
22.5°	910.6
25°	686.8
27.5°	498.8
30°	354.3
32.5°	240.4
35°	161.1
37.5°	107.4
40°	72.9
42.5°	49.9
45°	35.8
47.5°	25.6
50°	19.2
52.5°	14.1
55°	11.5
57.5°	9.0
60°	6.4
62.5°	5.1
65°	3.8
67.5°	3.8
70°	2.6
72.5°	2.6
75°	1.3
77.5°	1.3
80°	1.3
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)