

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: P219836

Luminaire Tested: **MRZ-1-REC-X-2-L40-97-WFL-UNV-X-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P219836  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14880)  
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-L40-97-WFL-UNV-X-STD  
Description: MRZ INTEGRAL LED DOWNLIGHT  
55 DEGREE WIDE FLOOD OPTIC, LIGHT LEVEL2  
Light Source: (1) 4000K CCT, 97 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 709.7 lumens  
Efficiency: N/A  
Efficacy: 80.6 lumens/watt  
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.91  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

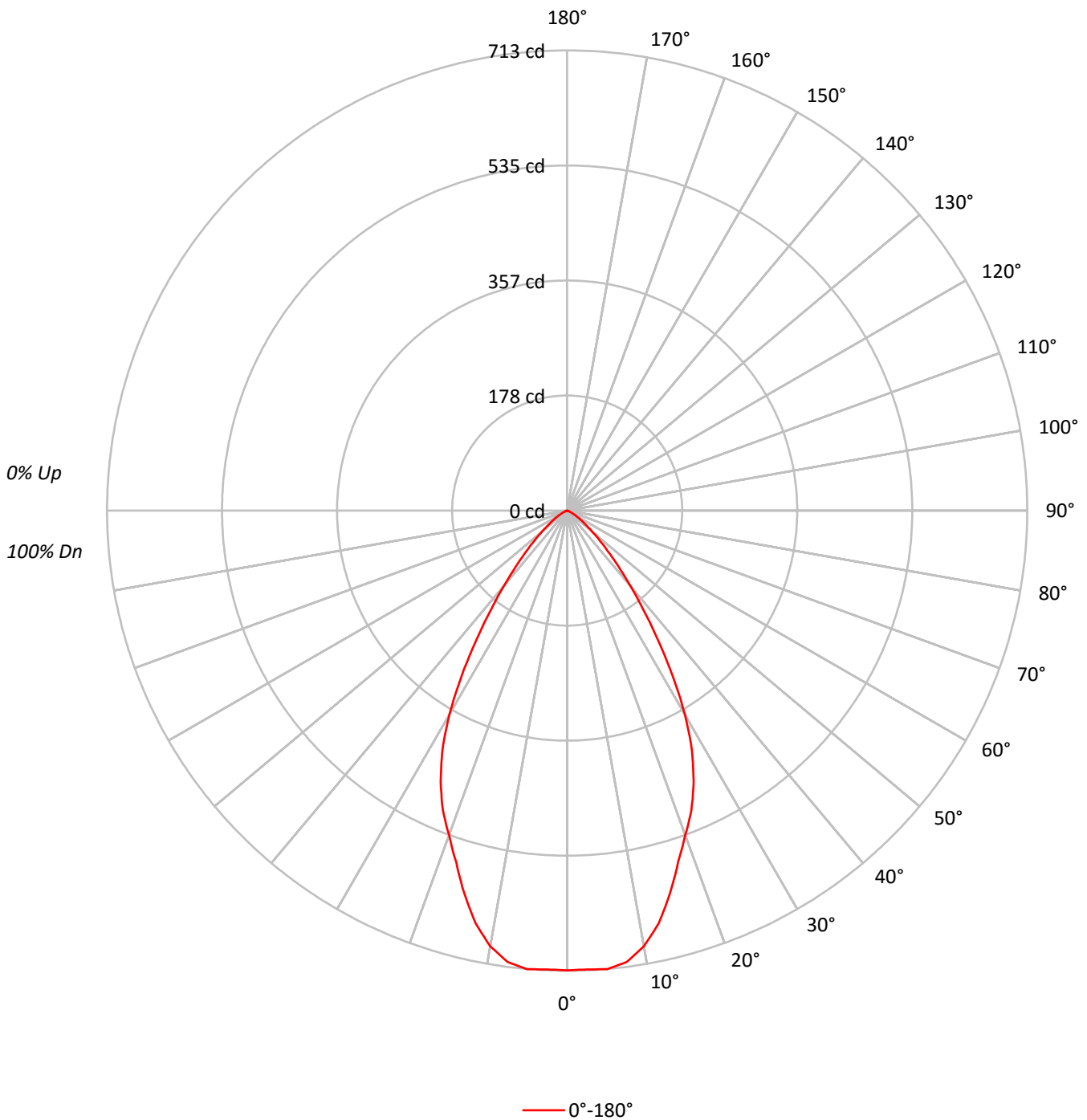
Input Watts (W): 8.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P219836

CATALOG NUMBER: MRZ-1-REC-X-2-L40-97-WFL-UNV-X-STD

### Luminous Intensity Polar Plot





TEST NUMBER: P219836

CATALOG NUMBER: MRZ-1-REC-X-2-L40-97-WFL-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	113	110	108	105	111	108	106	103	104	102	100		100	99	97		97	96	94	93
2	107	102	97	94	105	100	96	93	97	94	91		94	91	89		91	89	87	85
3	101	94	89	85	99	93	88	84	90	86	83		88	84	81		85	82	80	78
4	95	87	81	77	94	86	81	76	84	79	76		82	78	75		80	77	74	72
5	90	81	75	70	88	80	74	70	78	73	69		77	72	69		75	71	68	67
6	85	76	69	65	84	75	69	65	73	68	64		72	67	64		71	66	63	62
7	81	71	64	60	79	70	64	60	69	63	59		68	63	59		66	62	59	57
8	76	66	60	56	75	66	60	56	65	59	55		64	59	55		63	58	55	53
9	73	62	56	52	71	62	56	52	61	55	52		60	55	51		59	55	51	50
10	69	59	53	49	68	58	52	48	57	52	48		57	52	48		56	51	48	47

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

	0°
0°	351434
5°	353222
10°	343379
15°	314132
20°	280951
25°	252540
30°	207886
35°	148047
40°	97897
45°	62448
50°	38685
55°	23913
60°	13716
65°	7121
70°	3751
75°	3241
80°	0
85°	0



TEST NUMBER: P219836

CATALOG NUMBER: MRZ-1-REC-X-2-L40-97-WFL-UNV-X-STD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.2	9.5
10°-20°	171.5	24.2
20°-30°	210.1	29.6
30°-40°	155.0	21.8
40°-50°	71.7	10.1
50°-60°	26.0	3.7
60°-70°	6.7	0.9
70°-80°	1.5	0.2
80°-90°	0.0	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°	448.8	63.2
0°-40°	603.8	85.1
0°-60°	701.5	98.8
0°-90°	709.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	709.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	712	
5°	713	67
15°	615	171
25°	464	210
35°	246	155
45°	90	72
55°	28	26
65°	6	7
75°	2	1
85°	0	0
90°	0	



TEST NUMBER: P219836

CATALOG NUMBER: MRZ-1-REC-X-2-L40-97-WFL-UNV-X-STD

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	712.3
2.5°	711.5
5°	713.2
7.5°	705.4
10°	685.4
12.5°	655.0
15°	615.0
17.5°	571.6
20°	535.1
22.5°	503.0
25°	463.9
27.5°	418.7
30°	364.9
32.5°	304.9
35°	245.8
37.5°	194.6
40°	152.0
42.5°	117.3
45°	89.5
47.5°	67.8
50°	50.4
52.5°	37.4
55°	27.8
57.5°	20.0
60°	13.9
62.5°	9.6
65°	6.1
67.5°	3.5
70°	2.6
72.5°	1.7
75°	1.7
77.5°	0.9
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)