

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: P219842

Luminaire Tested: **MRZ-1-REC-X-3-L35-97-WFL-UNV-X-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P219842  
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-3-L35-97-WFL-UNV-X-STD  
Description: MRZ INTEGRAL LED DOWNLIGHT  
55 DEGREE WIDE FLOOD OPTIC, LIGHT LEVEL 3  
Light Source: (1) 3500K CCT, 97 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 933.5 lumens  
Efficiency: N/A  
Efficacy: 78.4 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

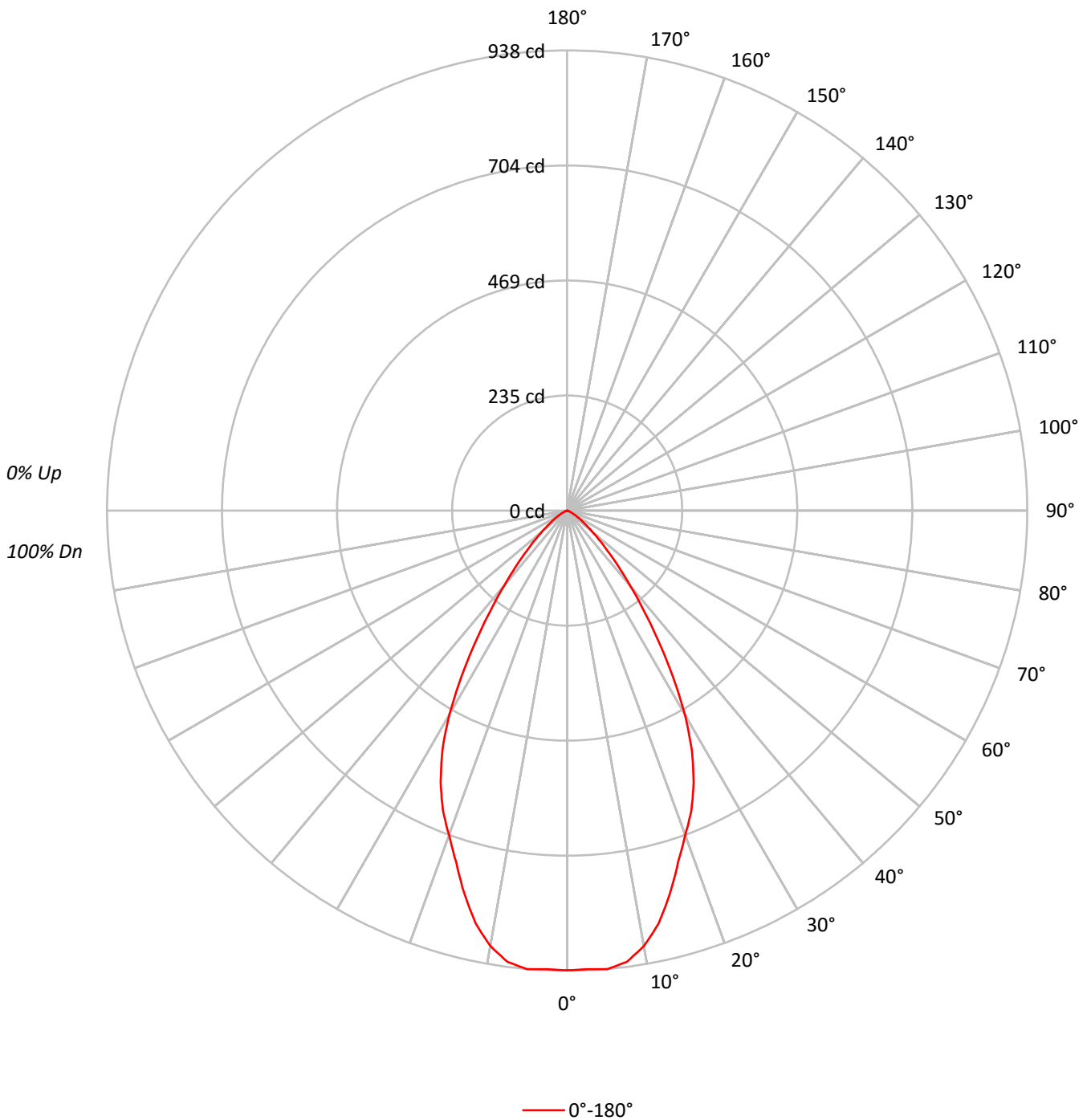
Input Watts (W): 11.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	462297
5°	464657
10°	451693
15°	413275
20°	369578
25°	332183
30°	273402
35°	194786
40°	128812
45°	82124
50°	50889
55°	31483
60°	18058
65°	9339
70°	4905
75°	4384
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.4	9.5
10°-20°	225.6	24.2
20°-30°	276.4	29.6
30°-40°	203.9	21.8
40°-50°	94.3	10.1
50°-60°	34.2	3.7
60°-70°	8.8	0.9
70°-80°	1.9	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°	590.4	63.2
0°-40°	794.3	85.1
0°-60°	922.8	98.8
0°-90°	933.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	933.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	937	
5°	938	88
15°	809	226
25°	610	276
35°	323	204
45°	118	94
55°	37	34
65°	8	9
75°	2	2
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	937.0
2.5°	935.9
5°	938.2
7.5°	927.9
10°	901.6
12.5°	861.6
15°	809.1
17.5°	751.9
20°	703.9
22.5°	661.6
25°	610.2
27.5°	550.8
30°	479.9
32.5°	401.1
35°	323.4
37.5°	256.0
40°	200.0
42.5°	154.3
45°	117.7
47.5°	89.1
50°	66.3
52.5°	49.1
55°	36.6
57.5°	26.3
60°	18.3
62.5°	12.6
65°	8.0
67.5°	4.6
70°	3.4
72.5°	2.3
75°	2.3
77.5°	1.1
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)