

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: P219932

Luminaire Tested: **MRZ-1-REC-X-3-L35-80-WFL-UNV-X-STD-SFL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P219932  
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-3-L35-80-WFL-UNV-X-STD-SFL  
Description: MRZ INTEGRAL LED DOWNLIGHT  
55 DEGREE WIDE FLOOD OPTIC WITH SOFT FOCUS LENS, LIGHT LEVEL 3  
Light Source: (1) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1145.7 lumens  
Efficiency: N/A  
Efficacy: 96.3 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

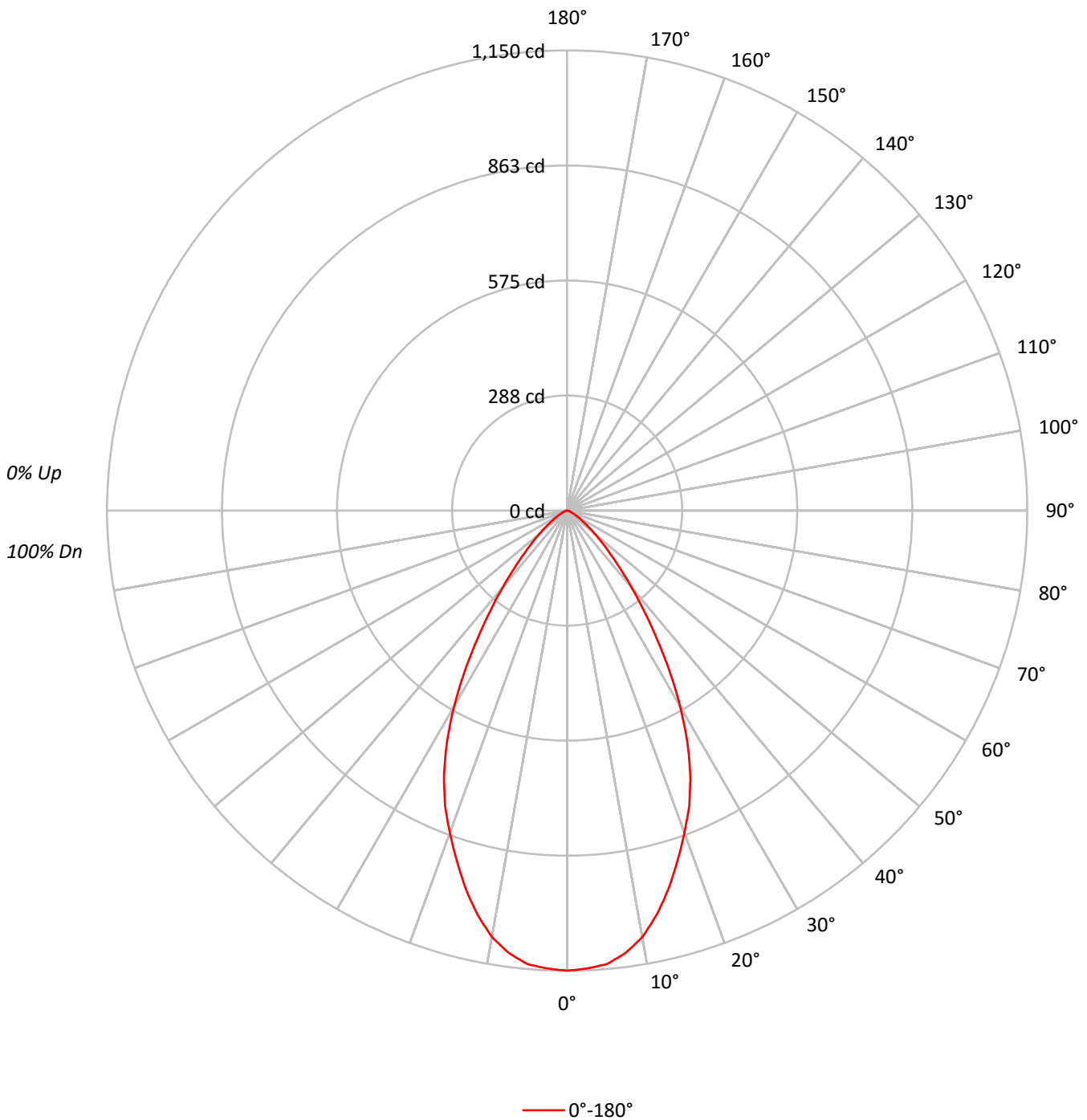
Input Watts (W): 11.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	567337
5°	563512
10°	542222
15°	499904
20°	450015
25°	396312
30°	321542
35°	235080
40°	160500
45°	105778
50°	69157
55°	43869
60°	28123
65°	17512
70°	12983
75°	8578
80°	4262
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.8	9.3
10°-20°	273.1	23.8
20°-30°	330.0	28.8
30°-40°	245.5	21.4
40°-50°	121.0	10.6
50°-60°	47.8	4.2
60°-70°	16.4	1.4
70°-80°	4.9	0.4
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°	709.8	62.0
0°-40°	955.3	83.4
0°-60°	1124.1	98.1
0°-90°	1145.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1145.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1150	
5°	1138	107
15°	979	273
25°	728	330
35°	390	246
45°	152	121
55°	51	48
65°	15	16
75°	4	5
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1149.9
2.5°	1145.3
5°	1137.8
7.5°	1115.3
10°	1082.3
12.5°	1034.3
15°	978.7
17.5°	917.2
20°	857.1
22.5°	797.1
25°	728.0
27.5°	650.0
30°	564.4
32.5°	475.9
35°	390.3
37.5°	315.2
40°	249.2
42.5°	195.1
45°	151.6
47.5°	117.1
50°	90.1
52.5°	67.5
55°	51.0
57.5°	37.5
60°	28.5
62.5°	21.0
65°	15.0
67.5°	12.0
70°	9.0
72.5°	6.0
75°	4.5
77.5°	3.0
80°	1.5
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)