

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: P226123

Luminaire Tested: **MRZ-1-REC-X-1-L30-80-NFL-UNV-X-STD-SFL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P226123  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14873)  
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-1-L30-80-NFL-UNV-X-STD-SFL  
Description: MRZ INTEGRAL LED DOWNLIGHT  
25 DEGREE NARROW FLOOD OPTIC WITH SOFT FOCUS LENS, LIGHT LEVEL 1  
Light Source: (1) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 571.0 lumens  
Efficiency: N/A  
Efficacy: 105.7 lumens/watt  
Spacing Criteria (0/90/45): 0.41 / 0.41 / 0.4  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

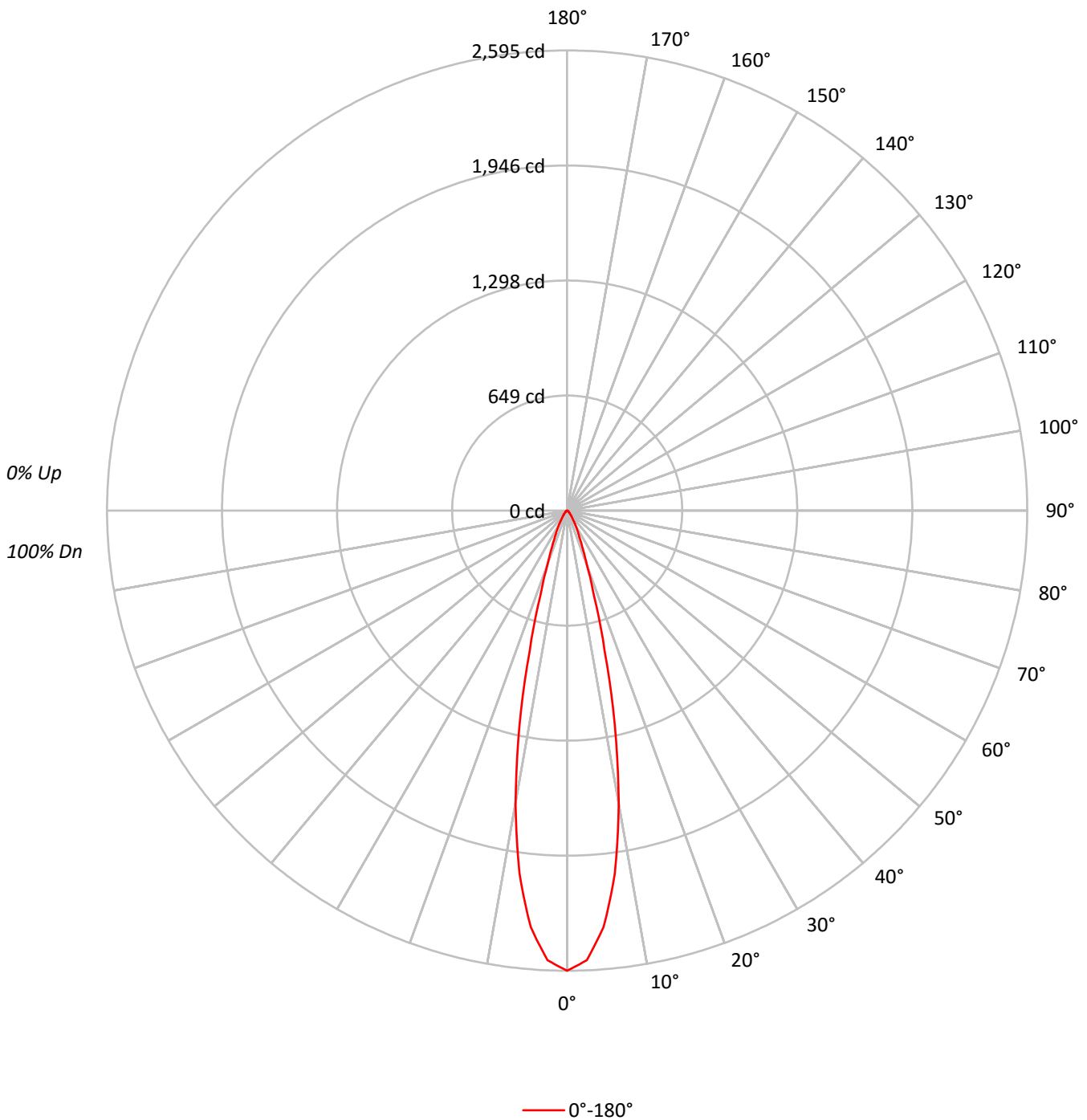
Input Watts (W): 5.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P226123

CATALOG NUMBER: MRZ-1-REC-X-1-L30-80-NFL-UNV-X-STD-SFL

### Luminous Intensity Polar Plot





TEST NUMBER: P226123

CATALOG NUMBER: MRZ-1-REC-X-1-L30-80-NFL-UNV-X-STD-SFL

**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	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92
3	107	102	98	95	105	101	97	95	98	95	93	96	94	92	94	92	90	89
4	103	98	94	91	102	97	93	90	95	92	89	93	90	88	91	89	87	86
5	100	94	90	87	99	93	89	86	92	88	85	90	87	85	89	86	84	83
6	97	91	86	83	96	90	86	83	89	85	82	87	84	82	86	83	81	80
7	94	88	83	80	93	87	83	80	86	82	80	85	82	79	84	81	79	78
8	92	85	80	77	91	84	80	77	83	80	77	82	79	77	82	79	76	75
9	89	82	78	75	88	82	78	75	81	77	75	80	77	74	79	76	74	73
10	87	80	76	73	86	79	75	73	79	75	73	78	75	72	77	74	72	71

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

	0°
0°	1280221
5°	1167783
10°	840161
15°	417362
20°	170062
25°	87755
30°	51558
35°	29874
40°	18871
45°	12838
50°	8366
55°	5333
60°	3355
65°	3152
70°	1875
75°	1334
80°	1989
85°	0



TEST NUMBER: P226123

CATALOG NUMBER: MRZ-1-REC-X-1-L30-80-NFL-UNV-X-STD-SFL

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	203.2	35.6
10°-20°	232.2	40.7
20°-30°	79.0	13.8
30°-40°	32.9	5.8
40°-50°	14.4	2.5
50°-60°	5.8	1.0
60°-70°	2.4	0.4
70°-80°	1.0	0.2
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°	514.4	90.1
0°-40°	547.3	95.9
0°-60°	567.5	99.4
0°-90°	571.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	571.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2595	
5°	2358	203
15°	817	232
25°	161	79
35°	50	33
45°	18	14
55°	6	6
65°	3	2
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P226123

CATALOG NUMBER: MRZ-1-REC-X-1-L30-80-NFL-UNV-X-STD-SFL

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2594.8
2.5°	2537.5
5°	2357.9
7.5°	2063.4
10°	1677.0
12.5°	1239.5
15°	817.1
17.5°	504.8
20°	323.9
22.5°	219.8
25°	161.2
27.5°	120.4
30°	90.5
32.5°	67.3
35°	49.6
37.5°	37.4
40°	29.3
42.5°	22.4
45°	18.4
47.5°	14.3
50°	10.9
52.5°	8.1
55°	6.2
57.5°	4.7
60°	3.4
62.5°	2.7
65°	2.7
67.5°	2.1
70°	1.3
72.5°	1.3
75°	0.7
77.5°	0.7
80°	0.7
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)