

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: P219818

Luminaire Tested: **MRZ-1-REC-X-4-L30-97-FL-UNV-X-STD-SFL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P219818  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14878)  
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-L30-97-FL-UNV-X-STD-SFL  
Description: MRZ INTEGRAL LED DOWNLIGHT  
40 DEGREE FLOOD OPTIC WITH SOFT FOCUS LENS, LIGHT LEVEL 4  
Light Source: (1) 3000K CCT, 97 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1162.9 lumens  
Efficiency: N/A  
Efficacy: 73.6 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

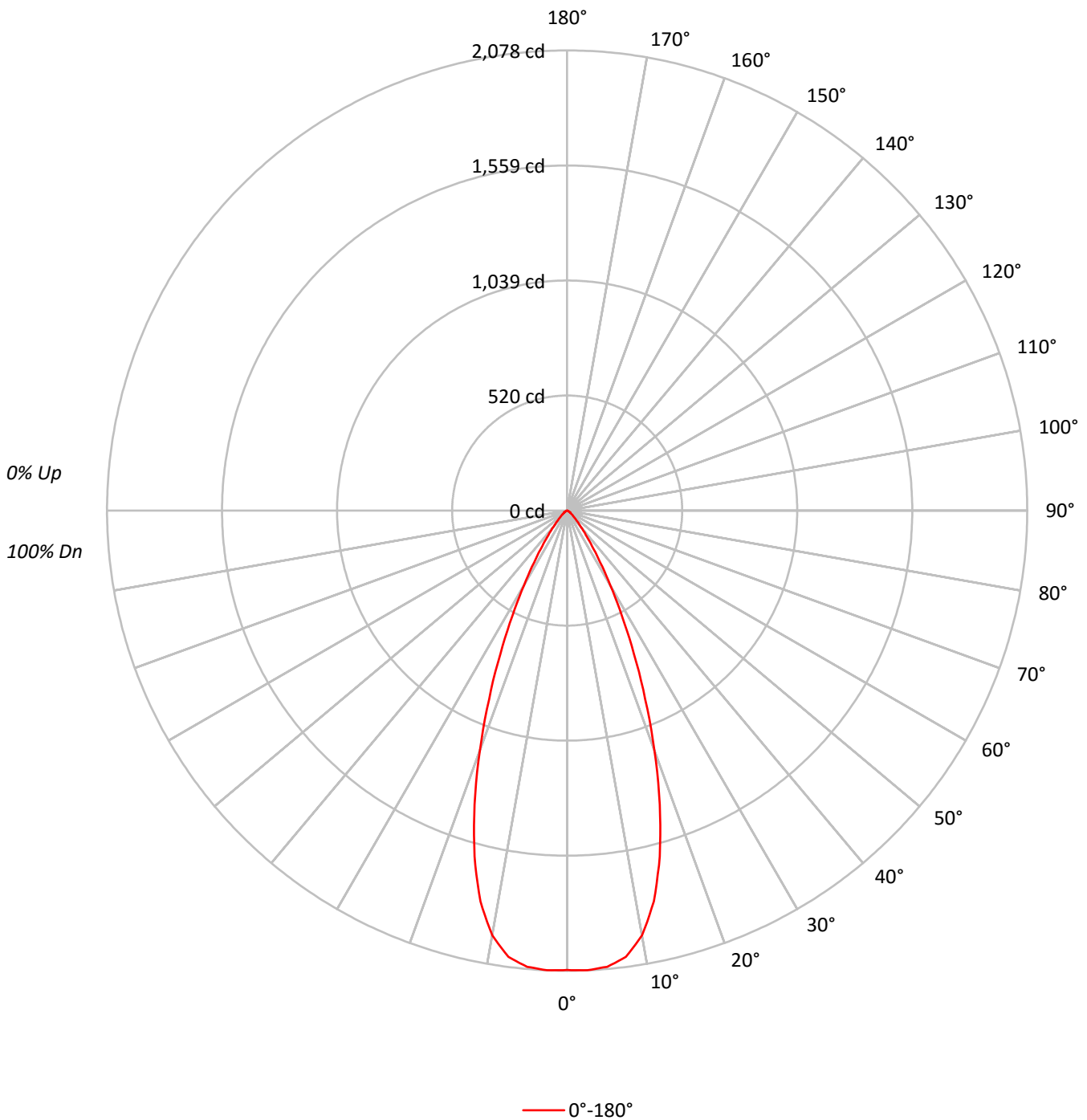
Input Watts (W): 15.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	114	111	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	94
2	109	105	101	98	107	103	99	97	100	97	95	97	94	93	94	92	91	89
3	104	98	94	90	102	97	93	90	94	91	88	92	89	87	90	88	85	84
4	100	93	88	84	98	92	87	84	90	86	83	88	84	82	86	83	81	79
5	95	88	83	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75
6	91	83	78	74	90	83	78	74	81	77	73	80	76	73	79	75	73	71
7	88	79	74	70	86	79	74	70	77	73	70	76	72	69	75	72	69	68
8	84	76	70	67	83	75	70	66	74	69	66	73	69	66	72	68	66	64
9	81	72	67	63	80	72	67	63	71	66	63	70	66	63	69	65	63	61
10	78	69	64	60	77	69	64	60	68	63	60	67	63	60	66	63	60	59

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

	0°
0°	1023713
5°	1024157
10°	975780
15°	825580
20°	604903
25°	388200
30°	221445
35°	117871
40°	63054
45°	36073
50°	22566
55°	15655
60°	11052
65°	8172
70°	6059
75°	5338
80°	3978
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	193.8	16.7
10°-20°	439.4	37.8
20°-30°	329.7	28.3
30°-40°	130.9	11.3
40°-50°	42.7	3.7
50°-60°	16.6	1.4
60°-70°	7.1	0.6
70°-80°	2.6	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°	962.8	82.8
0°-40°	1093.7	94.0
0°-60°	1153.1	99.2
0°-90°	1162.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1162.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2075	
5°	2068	194
15°	1616	439
25°	713	330
35°	196	131
45°	52	43
55°	18	17
65°	7	7
75°	3	3
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2074.9
2.5°	2077.7
5°	2067.9
7.5°	2032.9
10°	1947.7
12.5°	1807.8
15°	1616.3
17.5°	1391.2
20°	1152.1
22.5°	921.4
25°	713.1
27.5°	534.1
30°	388.7
32.5°	278.2
35°	195.7
37.5°	138.4
40°	97.9
42.5°	71.3
45°	51.7
47.5°	37.8
50°	29.4
52.5°	22.4
55°	18.2
57.5°	14.0
60°	11.2
62.5°	8.4
65°	7.0
67.5°	5.6
70°	4.2
72.5°	2.8
75°	2.8
77.5°	1.4
80°	1.4
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)