

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: P219727

Luminaire Tested: **MRZ-1-REC-X-4-L40-97-FL-UNV-X-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P219727  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14875)  
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-L40-97-FL-UNV-X-STD  
Description: MRZ INTEGRAL LED DOWNLIGHT  
40 DEGREE FLOOD OPTIC, LIGHT LEVEL 4  
Light Source: (1) 4000K CCT, 97 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1332.7 lumens  
Efficiency: N/A  
Efficacy: 84.3 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

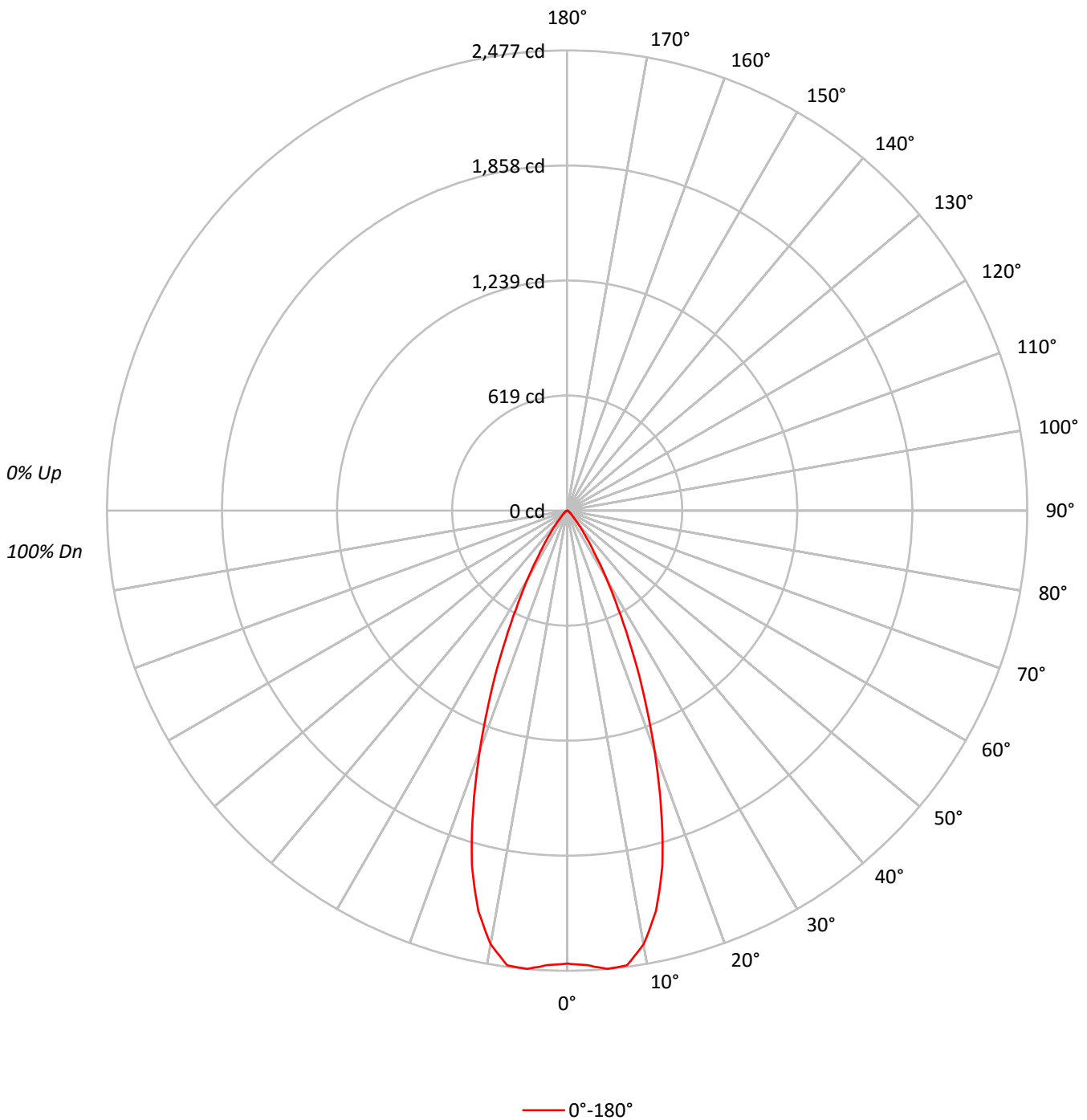
Input Watts (W): 15.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	114	112	109	107	112	110	108	106	106	104	102	102	101	99	98	97	97	95
2	109	105	101	98	107	103	100	97	100	98	95	97	95	93	95	93	91	90
3	105	99	95	91	103	98	94	91	95	92	89	93	90	88	91	88	86	85
4	100	94	89	85	99	93	88	85	91	87	84	89	86	83	87	84	82	81
5	96	89	84	80	95	88	83	80	86	82	79	85	81	79	83	80	78	77
6	92	85	80	76	91	84	79	76	83	78	75	81	77	75	80	77	74	73
7	89	81	76	72	88	80	75	72	79	75	71	78	74	71	77	73	71	69
8	85	77	72	68	84	77	72	68	76	71	68	75	71	68	74	70	67	66
9	82	74	69	65	81	73	68	65	72	68	65	72	68	65	71	67	64	63
10	79	71	66	62	78	70	65	62	69	65	62	69	65	62	68	64	62	61

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

	0°
0°	1203205
5°	1226571
10°	1187498
15°	1012170
20°	722302
25°	443891
30°	239618
35°	115221
40°	55776
45°	29654
50°	17500
55°	11784
60°	7499
65°	5370
70°	4328
75°	2859
80°	4262
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	233.5	17.5
10°-20°	534.2	40.1
20°-30°	378.8	28.4
30°-40°	130.7	9.8
40°-50°	35.5	2.7
50°-60°	12.5	0.9
60°-70°	5.1	0.4
70°-80°	2.2	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°	1146.5	86.0
0°-40°	1277.2	95.8
0°-60°	1325.3	99.4
0°-90°	1332.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1332.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2439	
5°	2477	233
15°	1982	534
25°	815	379
35°	191	131
45°	42	36
55°	14	12
65°	5	5
75°	2	2
85°	0	0
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2438.7
2.5°	2449.3
5°	2476.6
7.5°	2469.0
10°	2370.3
12.5°	2207.8
15°	1981.6
17.5°	1682.5
20°	1375.7
22.5°	1081.1
25°	815.4
27.5°	592.2
30°	420.6
32.5°	285.5
35°	191.3
37.5°	127.6
40°	86.6
42.5°	59.2
45°	42.5
47.5°	30.4
50°	22.8
52.5°	16.7
55°	13.7
57.5°	10.6
60°	7.6
62.5°	6.1
65°	4.6
67.5°	4.6
70°	3.0
72.5°	3.0
75°	1.5
77.5°	1.5
80°	1.5
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)