

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: P219700

Luminaire Tested: **MRZ-1-REC-X-1H-L40-80-FL-UNV-X-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P219700  
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-1H-L40-80-FL-UNV-X-STD  
Description: MRZ INTEGRAL LED DOWNLIGHT  
40 DEGREE FLOOD OPTIC, LIGHT LEVEL 1  
Light Source: (1) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 715.0 lumens  
Efficiency: N/A  
Efficacy: 105.1 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

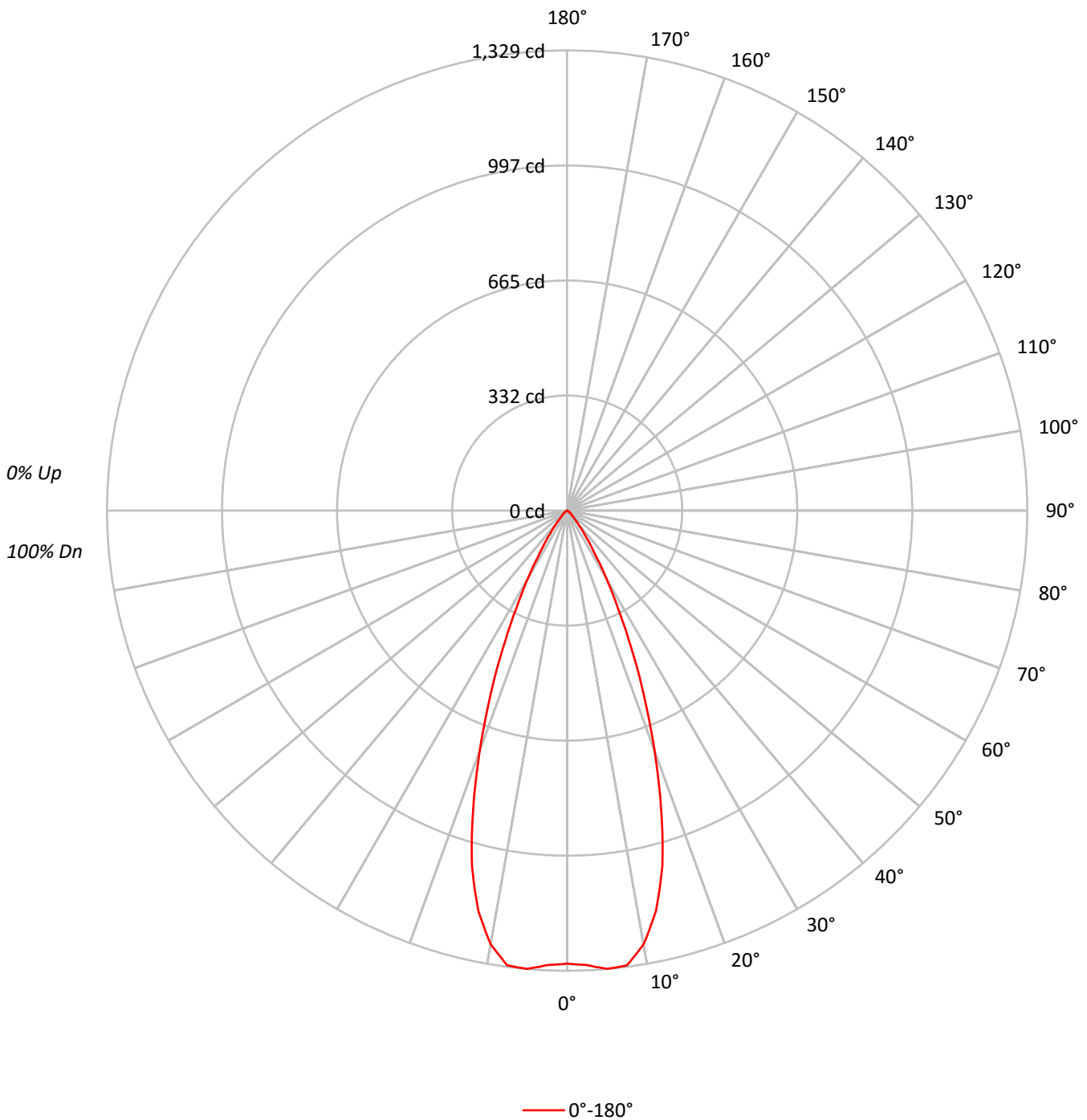
Input Watts (W): 6.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	645538
5°	658107
10°	637160
15°	543066
20°	387535
25°	238168
30°	128583
35°	61857
40°	29884
45°	15909
50°	9364
55°	6279
60°	4046
65°	2802
70°	2308
75°	1525
80°	2273
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.3	17.5
10°-20°	286.6	40.1
20°-30°	203.3	28.4
30°-40°	70.1	9.8
40°-50°	19.1	2.7
50°-60°	6.7	0.9
60°-70°	2.7	0.4
70°-80°	1.2	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°	615.1	86.0
0°-40°	685.3	95.8
0°-60°	711.0	99.4
0°-90°	715.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	715.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1308	
5°	1329	125
15°	1063	287
25°	438	203
35°	103	70
45°	23	19
55°	7	7
65°	2	3
75°	1	1
85°	0	0
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1308.4
2.5°	1314.1
5°	1328.8
7.5°	1324.7
10°	1271.8
12.5°	1184.6
15°	1063.2
17.5°	902.7
20°	738.1
22.5°	580.1
25°	437.5
27.5°	317.7
30°	225.7
32.5°	153.2
35°	102.7
37.5°	68.4
40°	46.4
42.5°	31.8
45°	22.8
47.5°	16.3
50°	12.2
52.5°	9.0
55°	7.3
57.5°	5.7
60°	4.1
62.5°	3.3
65°	2.4
67.5°	2.4
70°	1.6
72.5°	1.6
75°	0.8
77.5°	0.8
80°	0.8
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)