

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: P219713

Luminaire Tested: **MRZ-1-REC-X-3-L27-80-FL-UNV-X-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P219713  
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-3-L27-80-FL-UNV-X-STD  
Description: MRZ INTEGRAL LED DOWNLIGHT  
40 DEGREE FLOOD OPTIC, LIGHT LEVEL 3  
Light Source: (1) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1230.1 lumens  
Efficiency: N/A  
Efficacy: 101.7 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

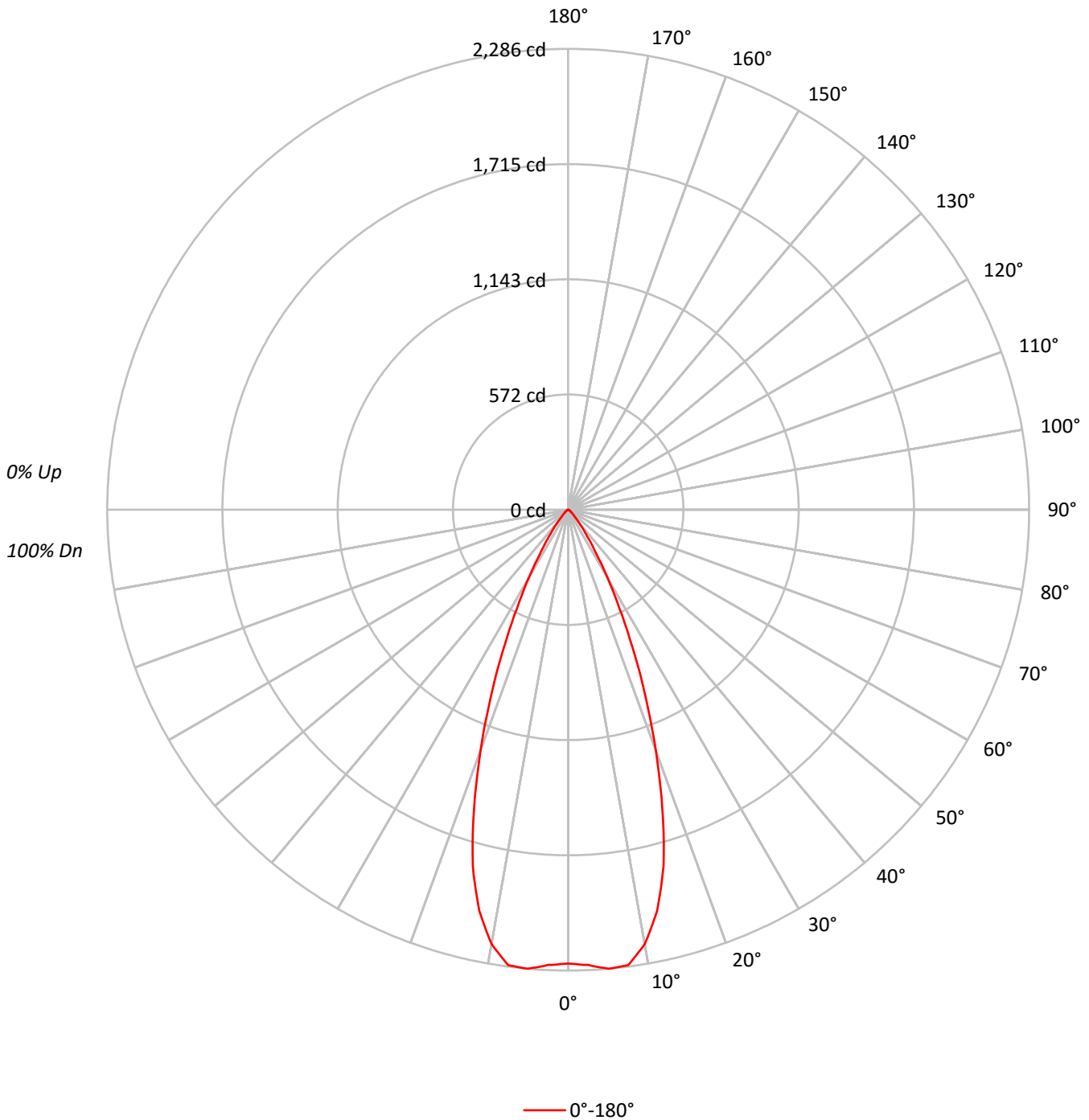
Input Watts (W): 12.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1110548
5°	1132124
10°	1096068
15°	934224
20°	666700
25°	409703
30°	221160
35°	106367
40°	51460
45°	27352
50°	16119
55°	10838
60°	6907
65°	4903
70°	4039
75°	2669
80°	3978
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	215.5	17.5
10°-20°	493.1	40.1
20°-30°	349.7	28.4
30°-40°	120.7	9.8
40°-50°	32.8	2.7
50°-60°	11.5	0.9
60°-70°	4.7	0.4
70°-80°	2.0	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°	1058.2	86.0
0°-40°	1178.9	95.8
0°-60°	1223.2	99.4
0°-90°	1230.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1230.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2251	
5°	2286	216
15°	1829	493
25°	753	350
35°	177	121
45°	39	33
55°	13	12
65°	4	5
75°	1	2
85°	0	0
90°	0	

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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2250.9
2.5°	2260.7
5°	2285.9
7.5°	2278.9
10°	2187.8
12.5°	2037.9
15°	1829.0
17.5°	1552.9
20°	1269.8
22.5°	997.9
25°	752.6
27.5°	546.6
30°	388.2
32.5°	263.5
35°	176.6
37.5°	117.7
40°	79.9
42.5°	54.7
45°	39.2
47.5°	28.0
50°	21.0
52.5°	15.4
55°	12.6
57.5°	9.8
60°	7.0
62.5°	5.6
65°	4.2
67.5°	4.2
70°	2.8
72.5°	2.8
75°	1.4
77.5°	1.4
80°	1.4
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)