

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: P219798

Luminaire Tested: **MRZ-1-REC-X-2-L27-80-FL-UNV-X-STD-SFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P219798
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-2-L27-80-FL-UNV-X-STD-SFL
Description: MRZ INTEGRAL LED DOWNLIGHT
40 DEGREE FLOOD OPTIC WITH SOFT FOCUS LENS, LIGHT LEVEL2
Light Source: (1) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 852.9 lumens
Efficiency: N/A
Efficacy: 96.9 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

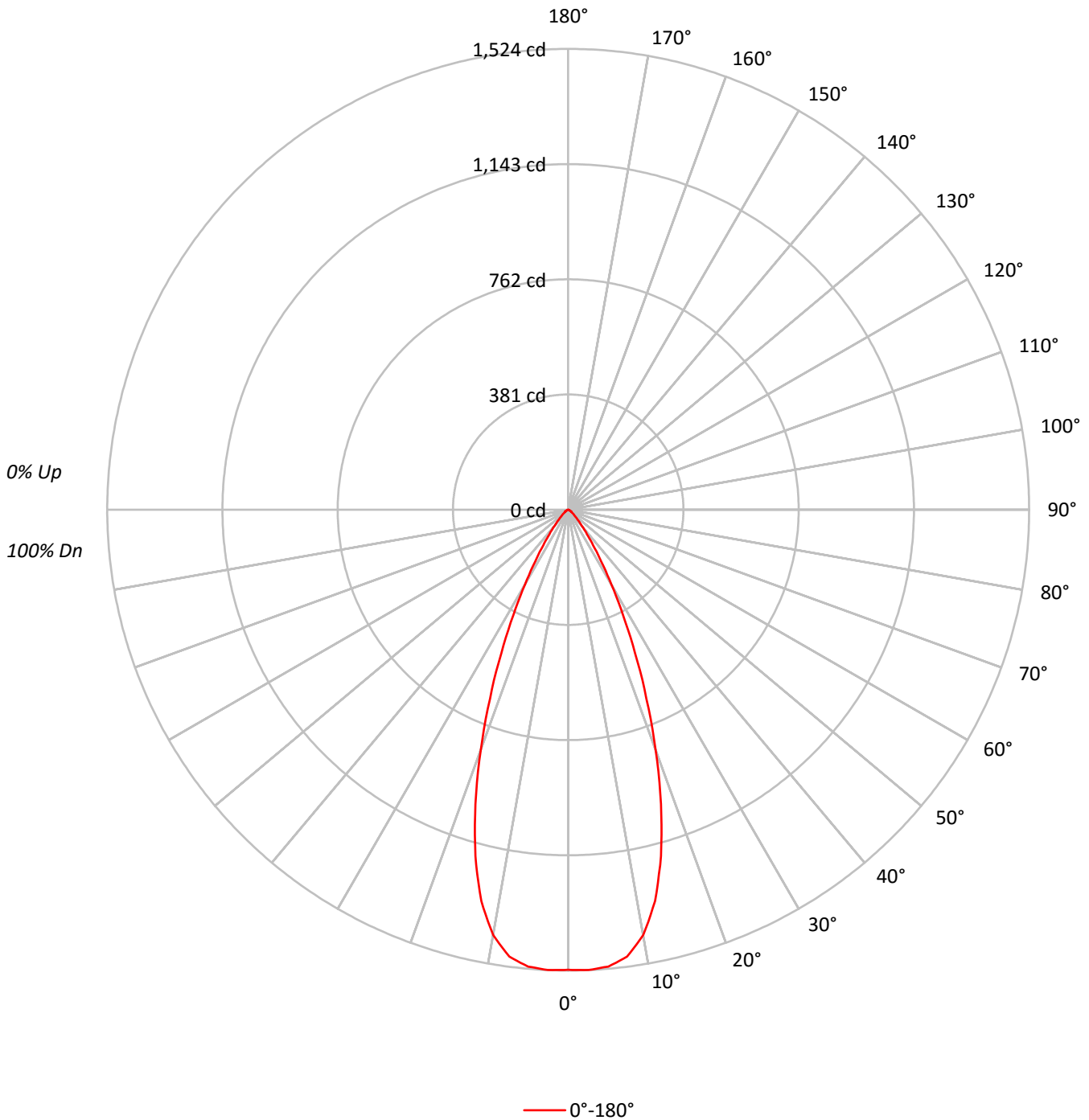
Input Watts (W): 8.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	750776
5°	751118
10°	715615
15°	605483
20°	443662
25°	284713
30°	162423
35°	86491
40°	46244
45°	26444
50°	16503
55°	11440
60°	8091
65°	5954
70°	4472
75°	4003
80°	2841
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.1	16.7
10°-20°	322.2	37.8
20°-30°	241.8	28.3
30°-40°	96.0	11.3
40°-50°	31.3	3.7
50°-60°	12.2	1.4
60°-70°	5.2	0.6
70°-80°	1.9	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°	706.2	82.8
0°-40°	802.2	94.0
0°-60°	845.7	99.2
0°-90°	852.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	852.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1522	
5°	1517	142
15°	1185	322
25°	523	242
35°	144	96
45°	38	31
55°	13	12
65°	5	5
75°	2	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1521.7
2.5°	1523.8
5°	1516.6
7.5°	1491.0
10°	1428.4
12.5°	1325.9
15°	1185.4
17.5°	1020.3
20°	845.0
22.5°	675.8
25°	523.0
27.5°	391.7
30°	285.1
32.5°	204.1
35°	143.6
37.5°	101.5
40°	71.8
42.5°	52.3
45°	37.9
47.5°	27.7
50°	21.5
52.5°	16.4
55°	13.3
57.5°	10.3
60°	8.2
62.5°	6.2
65°	5.1
67.5°	4.1
70°	3.1
72.5°	2.1
75°	2.1
77.5°	1.0
80°	1.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)