

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: P219809

Luminaire Tested: **MRZ-1-REC-X-3-L40-80-FL-UNV-X-STD-SFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P219809
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-3-L40-80-FL-UNV-X-STD-SFL
Description: MRZ INTEGRAL LED DOWNLIGHT
40 DEGREE FLOOD OPTIC WITH SOFT FOCUS LENS, LIGHT LEVEL 3
Light Source: (1) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1266.4 lumens
Efficiency: N/A
Efficacy: 105.5 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

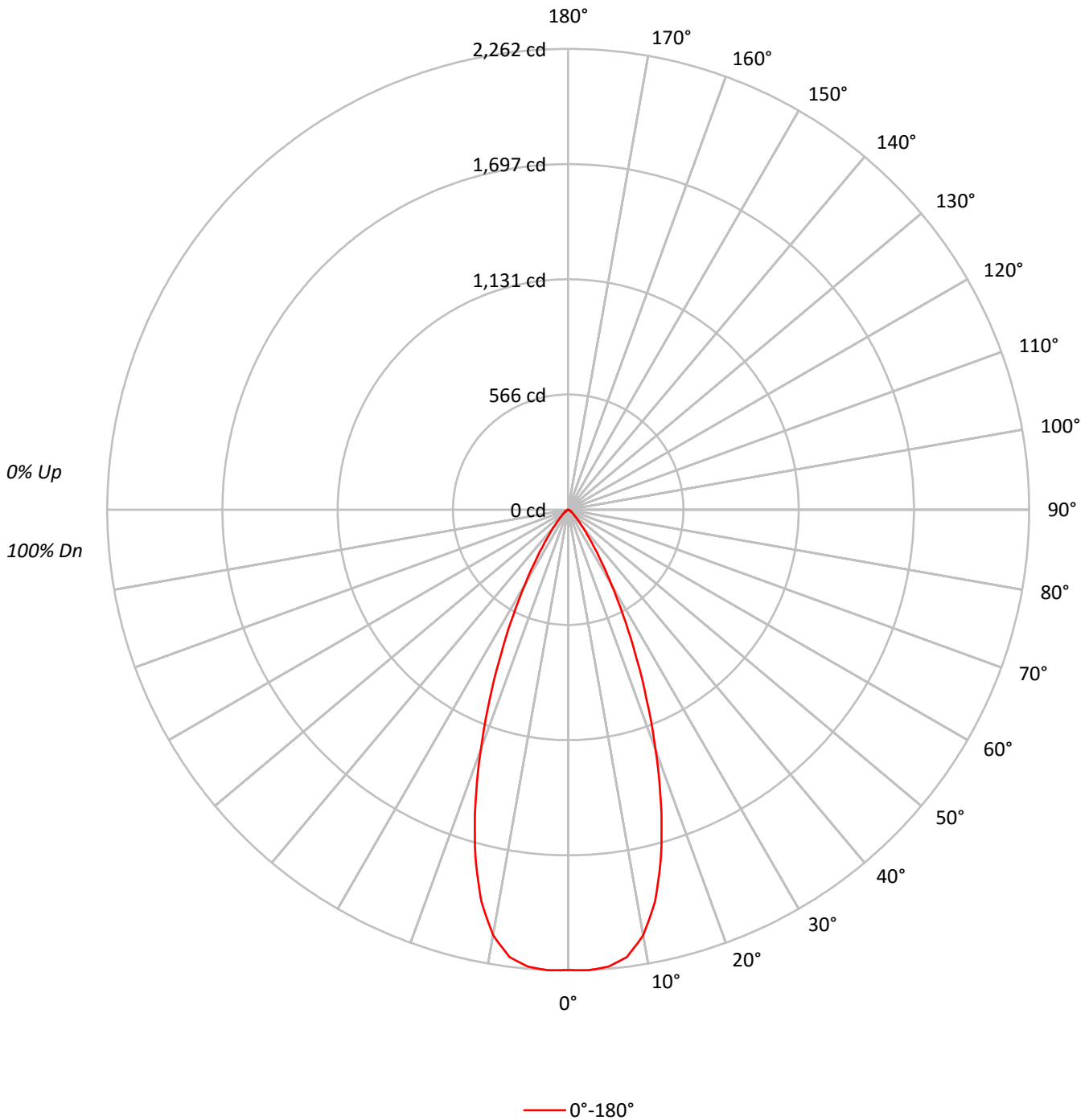
Input Watts (W): 12
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1114791
5°	1115285
10°	1062551
15°	899031
20°	658720
25°	422714
30°	241156
35°	128411
40°	68657
45°	39283
50°	24562
55°	17032
60°	12038
65°	8873
70°	6636
75°	5719
80°	4262
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.0	16.7
10°-20°	478.5	37.8
20°-30°	359.0	28.4
30°-40°	142.5	11.3
40°-50°	46.5	3.7
50°-60°	18.1	1.4
60°-70°	7.7	0.6
70°-80°	2.8	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°	1048.5	82.8
0°-40°	1191.0	94.1
0°-60°	1255.7	99.2
0°-90°	1266.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1266.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2260	
5°	2252	211
15°	1760	478
25°	776	359
35°	213	143
45°	56	47
55°	20	18
65°	8	8
75°	3	3
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2259.5
2.5°	2262.5
5°	2251.9
7.5°	2213.8
10°	2120.9
12.5°	1968.7
15°	1760.1
17.5°	1515.0
20°	1254.6
22.5°	1003.4
25°	776.5
27.5°	581.6
30°	423.3
32.5°	303.0
35°	213.2
37.5°	150.7
40°	106.6
42.5°	77.7
45°	56.3
47.5°	41.1
50°	32.0
52.5°	24.4
55°	19.8
57.5°	15.2
60°	12.2
62.5°	9.1
65°	7.6
67.5°	6.1
70°	4.6
72.5°	3.0
75°	3.0
77.5°	1.5
80°	1.5
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)