

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: P219810

Luminaire Tested: **MRZ-1-REC-X-3-L30-97-FL-UNV-X-STD-SFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P219810
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-L30-97-FL-UNV-X-STD-SFL
Description: MRZ INTEGRAL LED DOWNLIGHT
40 DEGREE FLOOD OPTIC WITH SOFT FOCUS LENS, LIGHT LEVEL 3
Light Source: (1) 3000K CCT, 97 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 909.4 lumens
Efficiency: N/A
Efficacy: 75.2 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

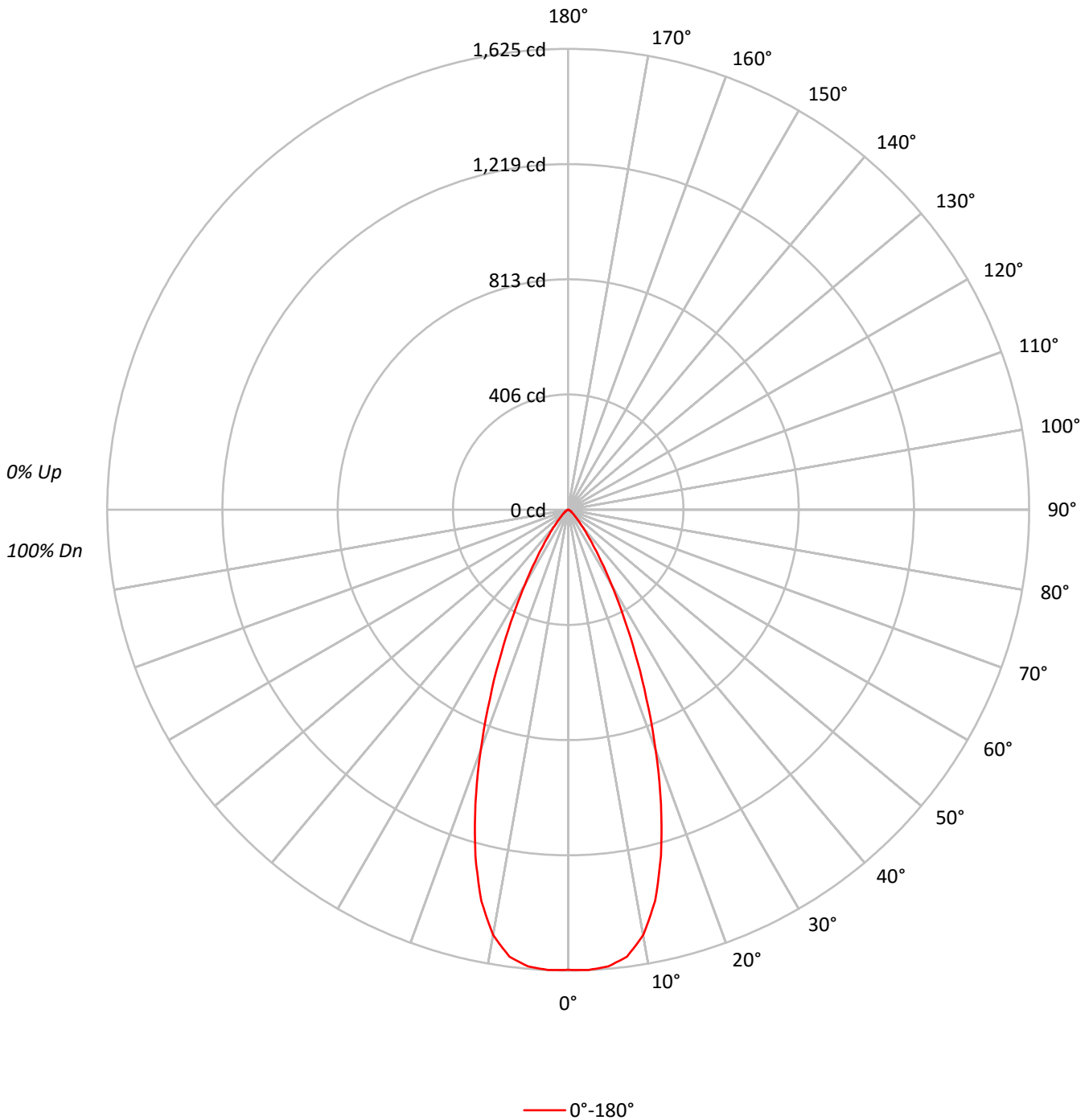
Input Watts (W): 12.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P219810

CATALOG NUMBER: MRZ-1-REC-X-3-L30-97-FL-UNV-X-STD-SFL

Luminous Intensity Polar Plot





TEST NUMBER: P219810

CATALOG NUMBER: MRZ-1-REC-X-3-L30-97-FL-UNV-X-STD-SFL

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°	800459
5°	800842
10°	762959
15°	645529
20°	473012
25°	303549
30°	173134
35°	92213
40°	49271
45°	28259
50°	17654
55°	12215
60°	8585
65°	6421
70°	4760
75°	4194
80°	3125
85°	0



TEST NUMBER: P219810

CATALOG NUMBER: MRZ-1-REC-X-3-L30-97-FL-UNV-X-STD-SFL

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.5	16.7
10°-20°	343.6	37.8
20°-30°	257.8	28.3
30°-40°	102.3	11.3
40°-50°	33.4	3.7
50°-60°	13.0	1.4
60°-70°	5.6	0.6
70°-80°	2.0	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°	752.9	82.8
0°-40°	855.2	94.0
0°-60°	901.6	99.2
0°-90°	909.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	909.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1622	
5°	1617	152
15°	1264	344
25°	558	258
35°	153	102
45°	40	33
55°	14	13
65°	6	6
75°	2	2
85°	0	0
90°	0	



TEST NUMBER: P219810

CATALOG NUMBER: MRZ-1-REC-X-3-L30-97-FL-UNV-X-STD-SFL

CANDELA DISTRIBUTION (FULL):

0°	
0°	1622.4
2.5°	1624.6
5°	1617.0
7.5°	1589.6
10°	1522.9
12.5°	1413.6
15°	1263.8
17.5°	1087.8
20°	900.9
22.5°	720.5
25°	557.6
27.5°	417.6
30°	303.9
32.5°	217.6
35°	153.1
37.5°	108.2
40°	76.5
42.5°	55.8
45°	40.5
47.5°	29.5
50°	23.0
52.5°	17.5
55°	14.2
57.5°	10.9
60°	8.7
62.5°	6.6
65°	5.5
67.5°	4.4
70°	3.3
72.5°	2.2
75°	2.2
77.5°	1.1
80°	1.1
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)