

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: P226103

Luminaire Tested: **MRZ-1-REC-X-1-L27-97-FL-UNV-X-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226103
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-1-L27-97-FL-UNV-X-STD
Description: MRZ INTEGRAL LED DOWNLIGHT
40 DEGREE FLOOD OPTIC, LIGHT LEVEL 1
Light Source: (1) 2700K CCT, 97 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 419.2 lumens
Efficiency: N/A
Efficacy: 77.6 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

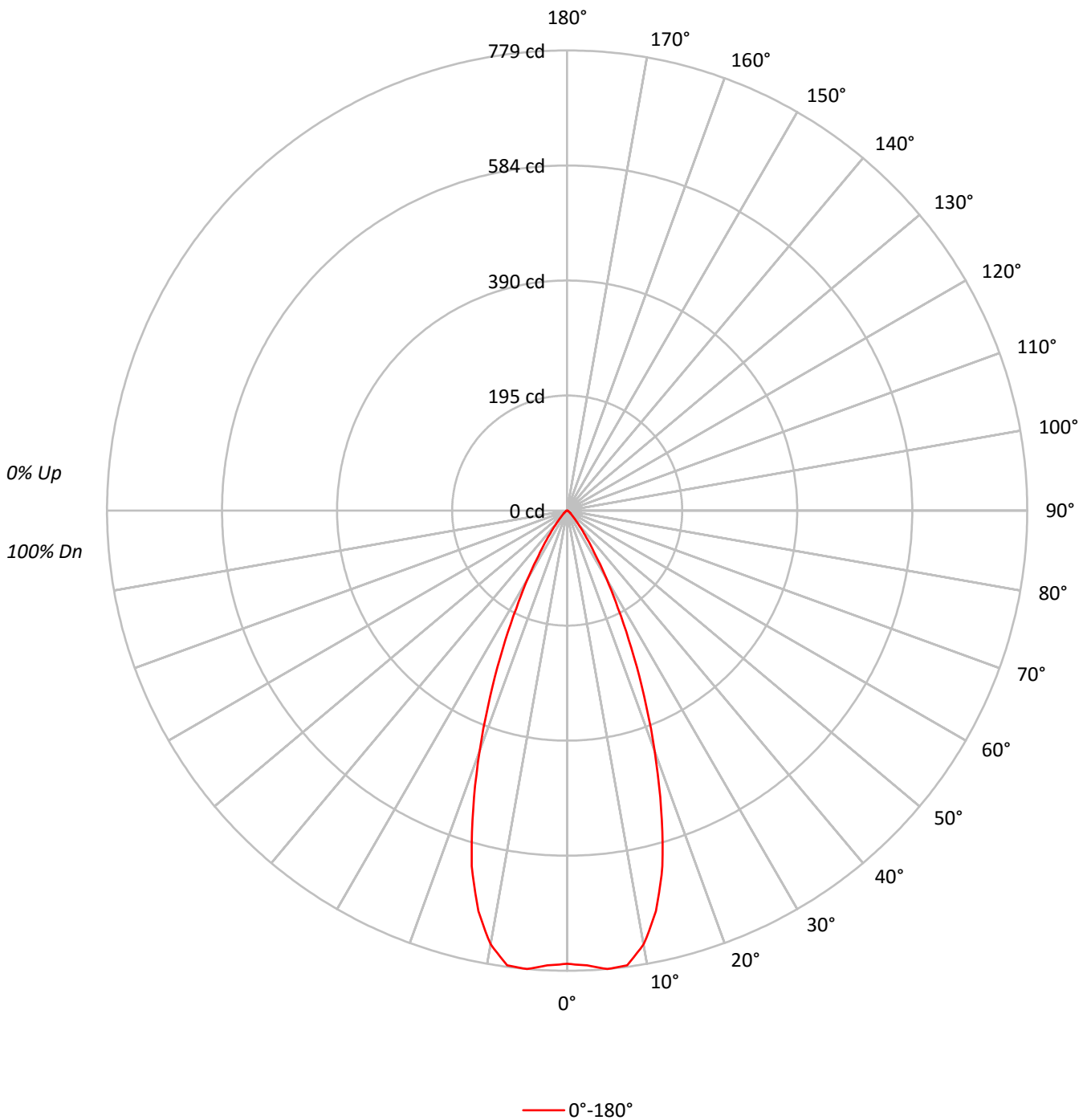
Input Watts (W): 5.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P226103

CATALOG NUMBER: MRZ-1-REC-X-1-L27-97-FL-UNV-X-STD

Luminous Intensity Polar Plot





TEST NUMBER: P226103

CATALOG NUMBER: MRZ-1-REC-X-1-L27-97-FL-UNV-X-STD

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°	378521
5°	385811
10°	373589
15°	318423
20°	227239
25°	139635
30°	75372
35°	36259
40°	17518
45°	9350
50°	5450
55°	3699
60°	2368
65°	1634
70°	1443
75°	763
80°	1137
85°	0



TEST NUMBER: P226103

CATALOG NUMBER: MRZ-1-REC-X-1-L27-97-FL-UNV-X-STD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.4	17.5
10°-20°	168.0	40.1
20°-30°	119.2	28.4
30°-40°	41.1	9.8
40°-50°	11.2	2.7
50°-60°	3.9	0.9
60°-70°	1.6	0.4
70°-80°	0.7	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°	360.7	86.0
0°-40°	401.8	95.8
0°-60°	416.9	99.5
0°-90°	419.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	419.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	767	
5°	779	73
15°	623	168
25°	256	119
35°	60	41
45°	13	11
55°	4	4
65°	1	2
75°	0	1
85°	0	0
90°	0	



TEST NUMBER: P226103

CATALOG NUMBER: MRZ-1-REC-X-1-L27-97-FL-UNV-X-STD

CANDELA DISTRIBUTION (FULL):

0°	
0°	767.2
2.5°	770.5
5°	779.0
7.5°	776.7
10°	745.7
12.5°	694.5
15°	623.4
17.5°	529.3
20°	432.8
22.5°	340.1
25°	256.5
27.5°	186.3
30°	132.3
32.5°	89.8
35°	60.2
37.5°	40.1
40°	27.2
42.5°	18.7
45°	13.4
47.5°	9.6
50°	7.1
52.5°	5.3
55°	4.3
57.5°	3.3
60°	2.4
62.5°	1.9
65°	1.4
67.5°	1.4
70°	1.0
72.5°	1.0
75°	0.4
77.5°	0.4
80°	0.4
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)