

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: P226138

Luminaire Tested: **MRZ-1-REC-X-1-L30-97-WFL-UNV-X-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226138
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14880)
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-L30-97-WFL-UNV-X-STD
Description: MRZ INTEGRAL LED DOWNLIGHT
55 DEGREE WIDE FLOOD OPTIC, LIGHT LEVEL 1
Light Source: (1) 3000K CCT, 97 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 426.7 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.91
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

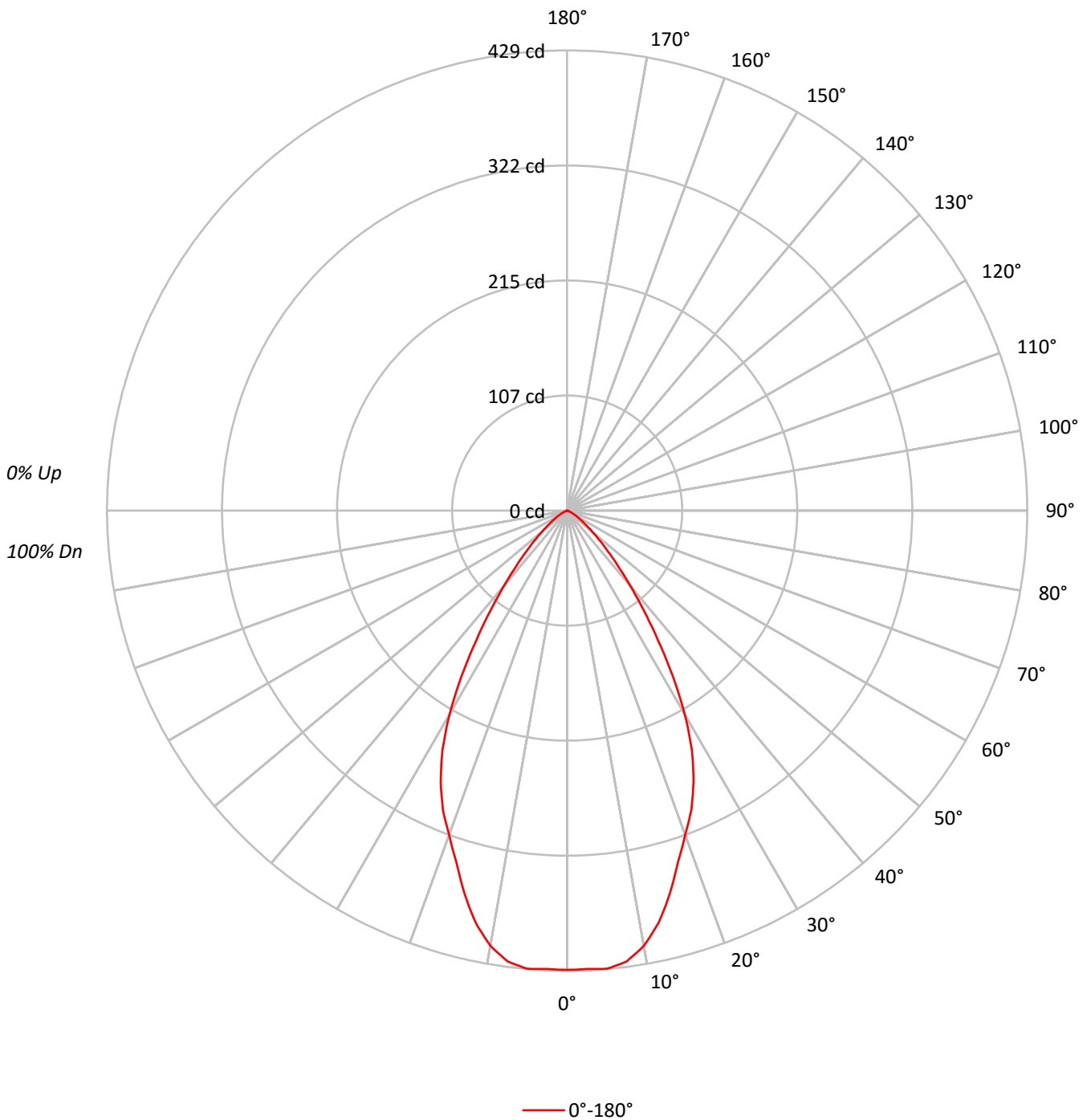
Input Watts (W): 5.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P226138

CATALOG NUMBER: MRZ-1-REC-X-1-L30-97-WFL-UNV-X-STD

Luminous Intensity Polar Plot





TEST NUMBER: P226138

CATALOG NUMBER: MRZ-1-REC-X-1-L30-97-WFL-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	113	110	108	105	111	108	106	103	104	102	100		100	99	97		97	96	94	93
2	107	102	97	94	105	100	96	93	97	94	91		94	91	89		91	89	87	85
3	101	94	89	85	99	93	88	84	90	86	83		88	84	81		85	82	80	78
4	95	87	81	77	94	86	81	76	84	79	76		82	78	75		80	77	74	72
5	90	81	75	70	88	80	74	70	78	73	69		77	72	69		75	71	68	67
6	85	76	69	65	84	75	69	65	73	68	64		72	67	64		71	66	63	62
7	81	71	64	60	79	70	64	60	69	63	59		68	63	59		66	62	59	57
8	76	66	60	56	75	66	60	56	65	59	55		64	59	55		63	58	55	53
9	73	62	56	52	71	62	56	52	61	55	52		60	55	51		59	55	51	50
10	69	59	53	49	68	58	52	48	57	52	48		57	52	48		56	51	48	47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	211265
5°	212369
10°	206458
15°	188888
20°	168907
25°	151829
30°	124936
35°	89021
40°	58867
45°	37539
50°	23257
55°	14365
60°	8289
65°	4320
70°	2308
75°	2097
80°	0
85°	0



TEST NUMBER: P226138

CATALOG NUMBER: MRZ-1-REC-X-1-L30-97-WFL-UNV-X-STD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.4	9.5
10°-20°	103.1	24.2
20°-30°	126.3	29.6
30°-40°	93.2	21.8
40°-50°	43.1	10.1
50°-60°	15.7	3.7
60°-70°	4.1	0.9
70°-80°	0.9	0.2
80°-90°	0.0	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°	269.8	63.2
0°-40°	363.0	85.1
0°-60°	421.7	98.8
0°-90°	426.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	426.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	428	
5°	429	40
15°	370	103
25°	279	126
35°	148	93
45°	54	43
55°	17	16
65°	4	4
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P226138

CATALOG NUMBER: MRZ-1-REC-X-1-L30-97-WFL-UNV-X-STD

CANDELA DISTRIBUTION (FULL):

	0°
0°	428.2
2.5°	427.7
5°	428.8
7.5°	424.0
10°	412.1
12.5°	393.8
15°	369.8
17.5°	343.6
20°	321.7
22.5°	302.4
25°	278.9
27.5°	251.7
30°	219.3
32.5°	183.3
35°	147.8
37.5°	116.9
40°	91.4
42.5°	70.5
45°	53.8
47.5°	40.7
50°	30.3
52.5°	22.5
55°	16.7
57.5°	12.1
60°	8.4
62.5°	5.7
65°	3.7
67.5°	2.1
70°	1.6
72.5°	1.1
75°	1.1
77.5°	0.5
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)