

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: P219851

Luminaire Tested: **MRZ-1-REC-X-4-L40-97-WFL-UNV-X-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P219851
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-4-L40-97-WFL-UNV-X-STD
Description: MRZ INTEGRAL LED DOWNLIGHT
55 DEGREE WIDE FLOOD OPTIC, LIGHT LEVEL 4
Light Source: (1) 4000K CCT, 97 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1240.5 lumens
Efficiency: N/A
Efficacy: 78.5 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

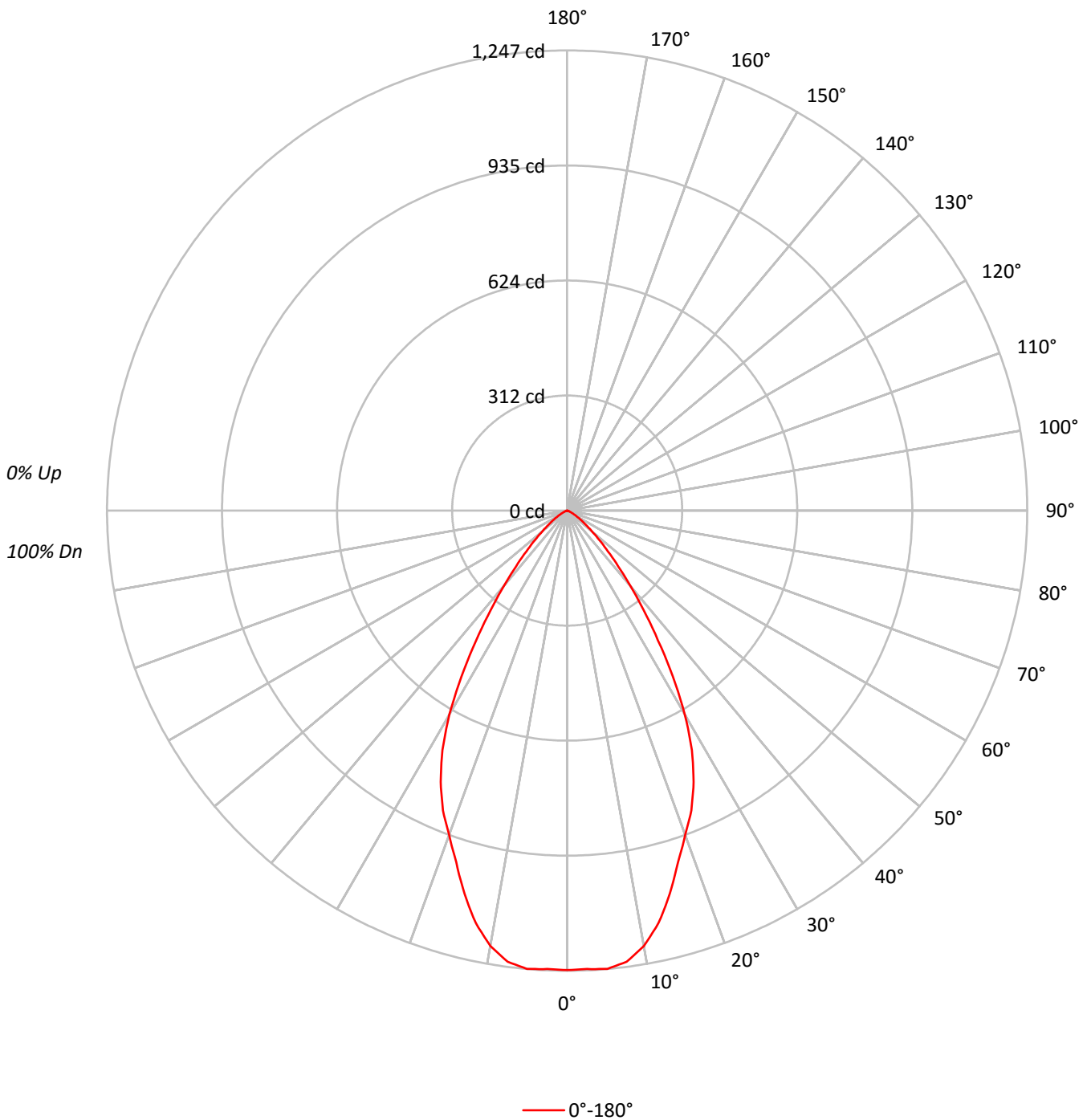
Input Watts (W): 15.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P219851

CATALOG NUMBER: MRZ-1-REC-X-4-L40-97-WFL-UNV-X-STD

Luminous Intensity Polar Plot





TEST NUMBER: P219851

CATALOG NUMBER: MRZ-1-REC-X-4-L40-97-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°	614307
5°	617446
10°	600237
15°	549144
20°	491126
25°	441441
30°	363358
35°	258811
40°	171127
45°	109127
50°	67622
55°	41805
60°	23978
65°	12375
70°	6636
75°	5719
80°	0
85°	0



TEST NUMBER: P219851

CATALOG NUMBER: MRZ-1-REC-X-4-L40-97-WFL-UNV-X-STD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.5	9.5
10°-20°	299.8	24.2
20°-30°	367.3	29.6
30°-40°	270.9	21.8
40°-50°	125.3	10.1
50°-60°	45.4	3.7
60°-70°	11.7	0.9
70°-80°	2.6	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°	784.5	63.2
0°-40°	1055.4	85.1
0°-60°	1226.2	98.8
0°-90°	1240.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1240.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1245	
5°	1247	117
15°	1075	300
25°	811	367
35°	430	271
45°	156	125
55°	49	45
65°	11	12
75°	3	3
85°	0	0
90°	0	



TEST NUMBER: P219851

CATALOG NUMBER: MRZ-1-REC-X-4-L40-97-WFL-UNV-X-STD

CANDELA DISTRIBUTION (FULL):

0°	
0°	1245.1
2.5°	1243.6
5°	1246.7
7.5°	1233.0
10°	1198.1
12.5°	1144.9
15°	1075.1
17.5°	999.2
20°	935.4
22.5°	879.2
25°	810.9
27.5°	731.9
30°	637.8
32.5°	533.0
35°	429.7
37.5°	340.1
40°	265.7
42.5°	205.0
45°	156.4
47.5°	118.4
50°	88.1
52.5°	65.3
55°	48.6
57.5°	34.9
60°	24.3
62.5°	16.7
65°	10.6
67.5°	6.1
70°	4.6
72.5°	3.0
75°	3.0
77.5°	1.5
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)