

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: P226162

Luminaire Tested: **MRZ-1-REC-X-1-L35-97-NFL-UNV-X-STD-SFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226162
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14873)
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-L35-97-NFL-UNV-X-STD-SFL
Description: MRZ INTEGRAL LED DOWNLIGHT
25 DEGREE NARROW FLOOD OPTIC WITH SOFT FOCUS LENS, LIGHT LEVEL 1
Light Source: (1) 3500K CCT, 97 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 458.0 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Spacing Criteria (0/90/45): 0.41 / 0.41 / 0.4
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

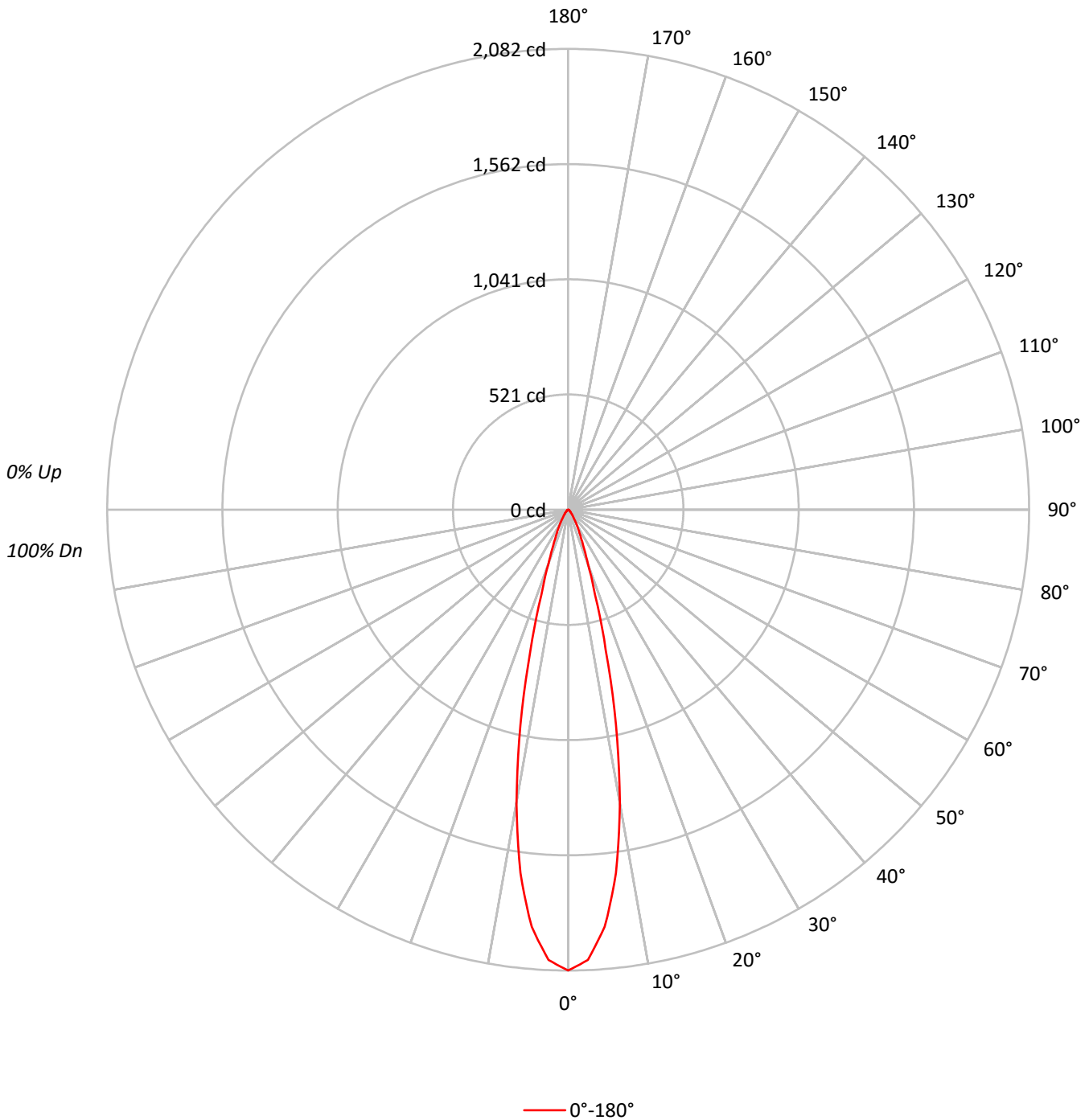
Input Watts (W): 5.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P226162

CATALOG NUMBER: MRZ-1-REC-X-1-L35-97-NFL-UNV-X-STD-SFL

Luminous Intensity Polar Plot





TEST NUMBER: P226162

CATALOG NUMBER: MRZ-1-REC-X-1-L35-97-NFL-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	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96
2	111	107	104	101	109	105	103	100	102	100	98	99	97	96	97	95	94	92
3	107	102	98	95	105	101	97	95	98	95	93	96	94	92	94	92	90	89
4	103	98	94	91	102	97	93	90	95	92	89	93	90	88	91	89	87	86
5	100	94	90	87	99	93	89	86	92	88	85	90	87	85	89	86	84	83
6	97	91	86	83	96	90	86	83	89	85	82	87	84	82	86	83	81	80
7	94	88	83	80	93	87	83	80	86	82	80	85	82	79	84	81	79	78
8	92	85	80	77	91	84	80	77	83	80	77	82	79	77	82	79	76	75
9	89	82	78	75	88	82	78	75	81	77	75	80	77	74	79	76	74	73
10	87	80	76	73	86	79	75	73	79	75	73	78	75	72	77	74	72	71

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1027118
5°	936990
10°	674083
15°	334870
20°	136459
25°	70443
30°	41361
35°	23972
40°	15135
45°	10257
50°	6678
55°	4215
60°	2763
65°	2452
70°	1587
75°	953
80°	1421
85°	0



TEST NUMBER: P226162

CATALOG NUMBER: MRZ-1-REC-X-1-L35-97-NFL-UNV-X-STD-SFL

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.0	35.6
10°-20°	186.3	40.7
20°-30°	63.4	13.8
30°-40°	26.4	5.8
40°-50°	11.5	2.5
50°-60°	4.6	1.0
60°-70°	1.9	0.4
70°-80°	0.8	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°	412.7	90.1
0°-40°	439.1	95.9
0°-60°	455.3	99.4
0°-90°	458.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	458.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2082	
5°	1892	163
15°	656	186
25°	129	63
35°	40	26
45°	15	12
55°	5	5
65°	2	2
75°	0	1
85°	0	0
90°	0	



TEST NUMBER: P226162

CATALOG NUMBER: MRZ-1-REC-X-1-L35-97-NFL-UNV-X-STD-SFL

CANDELA DISTRIBUTION (FULL):

	0°
0°	2081.8
2.5°	2035.9
5°	1891.9
7.5°	1655.6
10°	1345.5
12.5°	994.5
15°	655.6
17.5°	405.0
20°	259.9
22.5°	176.3
25°	129.4
27.5°	96.6
30°	72.6
32.5°	54.0
35°	39.8
37.5°	30.0
40°	23.5
42.5°	18.0
45°	14.7
47.5°	11.4
50°	8.7
52.5°	6.5
55°	4.9
57.5°	3.8
60°	2.8
62.5°	2.1
65°	2.1
67.5°	1.6
70°	1.1
72.5°	1.1
75°	0.5
77.5°	0.5
80°	0.5
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)