

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: P219703

Luminaire Tested: **MRZ-1-REC-X-1H-L35-97-FL-UNV-X-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P219703
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-1H-L35-97-FL-UNV-X-STD
Description: MRZ INTEGRAL LED DOWNLIGHT
40 DEGREE FLOOD OPTIC, LIGHT LEVEL 1
Light Source: (1) 3500K CCT, 97 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 536.6 lumens
Efficiency: N/A
Efficacy: 78.9 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

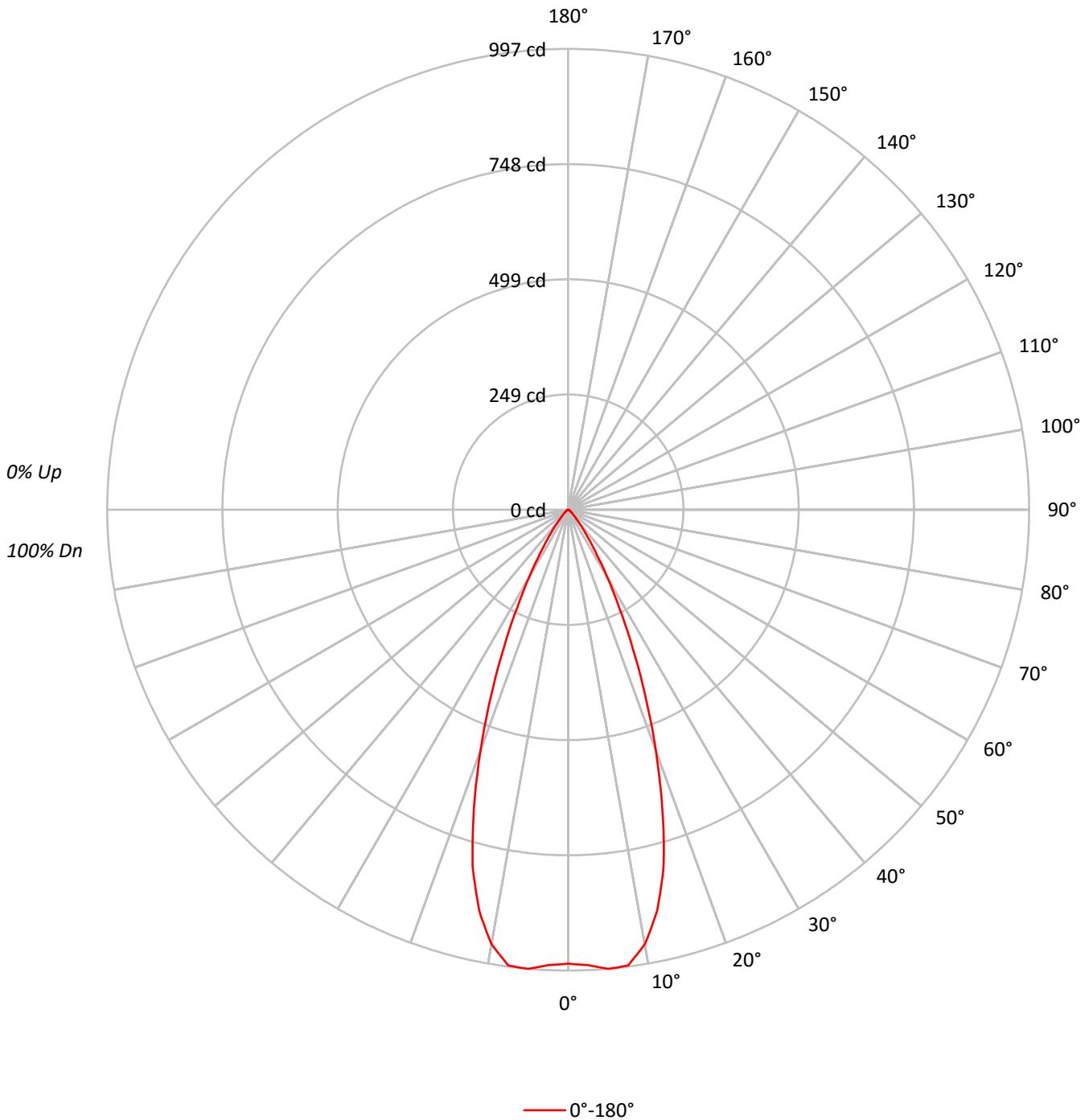
Input Watts (W): 6.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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°	484499
5°	493927
10°	478196
15°	407606
20°	290874
25°	178776
30°	96508
35°	46378
40°	22478
45°	11931
50°	7062
55°	4731
60°	3059
65°	2101
70°	1731
75°	1144
80°	1705
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.0	17.5
10°-20°	215.1	40.1
20°-30°	152.6	28.4
30°-40°	52.7	9.8
40°-50°	14.3	2.7
50°-60°	5.0	0.9
60°-70°	2.0	0.4
70°-80°	0.9	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°	461.7	86.0
0°-40°	514.4	95.8
0°-60°	533.7	99.4
0°-90°	536.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	536.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	982	
5°	997	94
15°	798	215
25°	328	153
35°	77	53
45°	17	14
55°	6	5
65°	2	2
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	982.0
2.5°	986.3
5°	997.3
7.5°	994.2
10°	954.5
12.5°	889.1
15°	798.0
17.5°	677.5
20°	554.0
22.5°	435.4
25°	328.4
27.5°	238.5
30°	169.4
32.5°	115.0
35°	77.0
37.5°	51.4
40°	34.9
42.5°	23.8
45°	17.1
47.5°	12.2
50°	9.2
52.5°	6.7
55°	5.5
57.5°	4.3
60°	3.1
62.5°	2.4
65°	1.8
67.5°	1.8
70°	1.2
72.5°	1.2
75°	0.6
77.5°	0.6
80°	0.6
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)