

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: P219711

Luminaire Tested: **MRZ-1-REC-X-2-L35-97-FL-UNV-X-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P219711
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-2-L35-97-FL-UNV-X-STD
Description: MRZ INTEGRAL LED DOWNLIGHT
40 DEGREE FLOOD OPTIC, LIGHT LEVEL2
Light Source: (1) 3500K CCT, 97 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 733.8 lumens
Efficiency: N/A
Efficacy: 83.4 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

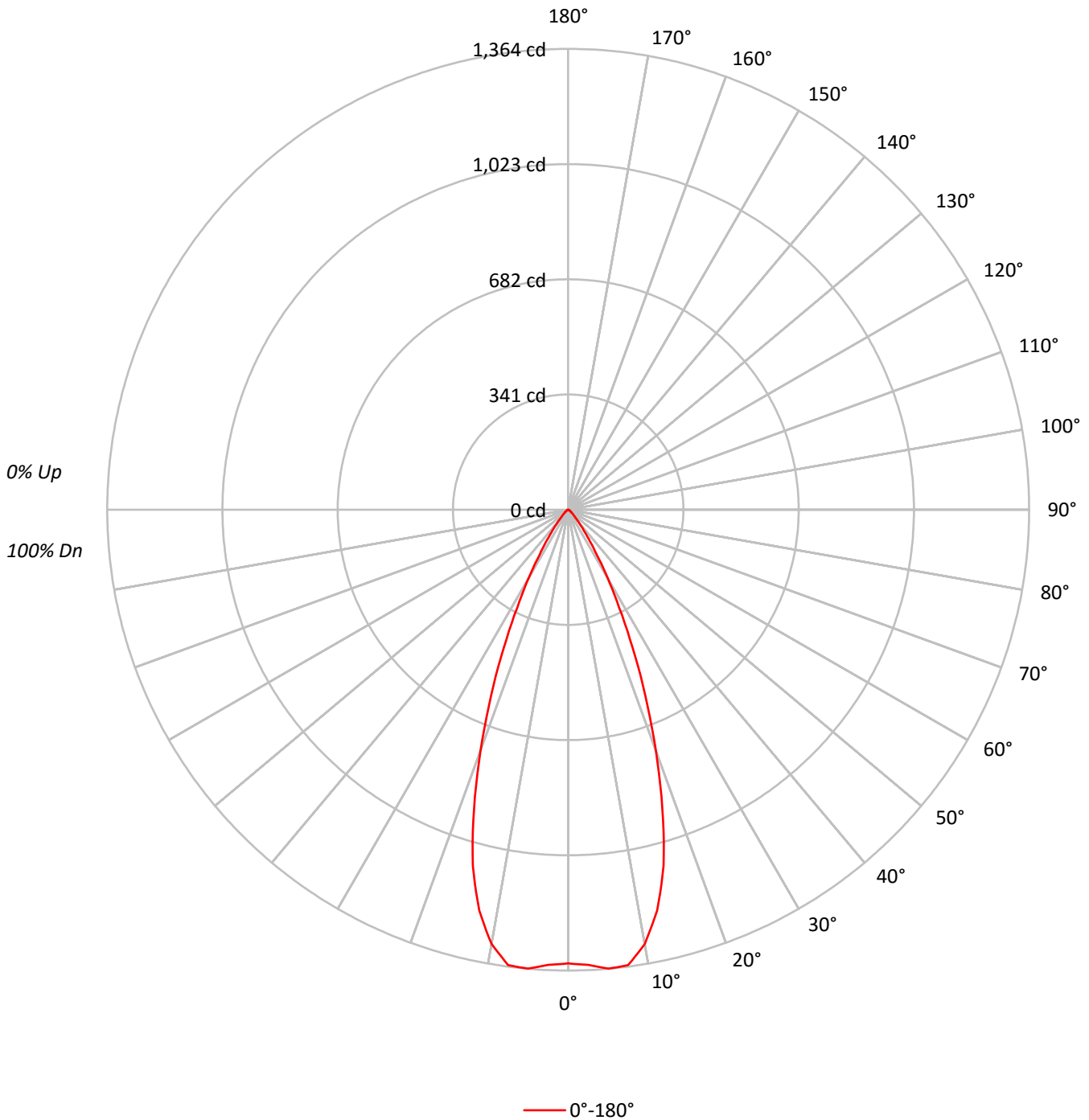
Input Watts (W): 8.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	662461
5°	675342
10°	653843
15°	557317
20°	397720
25°	244428
30°	131944
35°	63423
40°	30722
45°	16327
50°	9595
55°	6451
60°	4144
65°	2919
70°	2452
75°	1525
80°	2273
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.6	17.5
10°-20°	294.1	40.1
20°-30°	208.6	28.4
30°-40°	72.0	9.8
40°-50°	19.5	2.7
50°-60°	6.9	0.9
60°-70°	2.8	0.4
70°-80°	1.2	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°	631.3	86.0
0°-40°	703.3	95.8
0°-60°	729.7	99.4
0°-90°	733.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	733.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1343	
5°	1364	129
15°	1091	294
25°	449	209
35°	105	72
45°	23	20
55°	8	7
65°	2	3
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1342.7
2.5°	1348.6
5°	1363.6
7.5°	1359.5
10°	1305.1
12.5°	1215.7
15°	1091.1
17.5°	926.4
20°	757.5
22.5°	595.3
25°	449.0
27.5°	326.1
30°	231.6
32.5°	157.2
35°	105.3
37.5°	70.2
40°	47.7
42.5°	32.6
45°	23.4
47.5°	16.7
50°	12.5
52.5°	9.2
55°	7.5
57.5°	5.9
60°	4.2
62.5°	3.3
65°	2.5
67.5°	2.5
70°	1.7
72.5°	1.7
75°	0.8
77.5°	0.8
80°	0.8
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)