

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: P219821

Luminaire Tested: **MRZ-1-REC-X-1H-L27-80-WFL-UNV-X-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P219821
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-1H-L27-80-WFL-UNV-X-STD
Description: MRZ INTEGRAL LED DOWNLIGHT
55 DEGREE WIDE FLOOD OPTIC, LIGHT LEVEL 1
Light Source: (1) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 612.6 lumens
Efficiency: N/A
Efficacy: 90.1 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

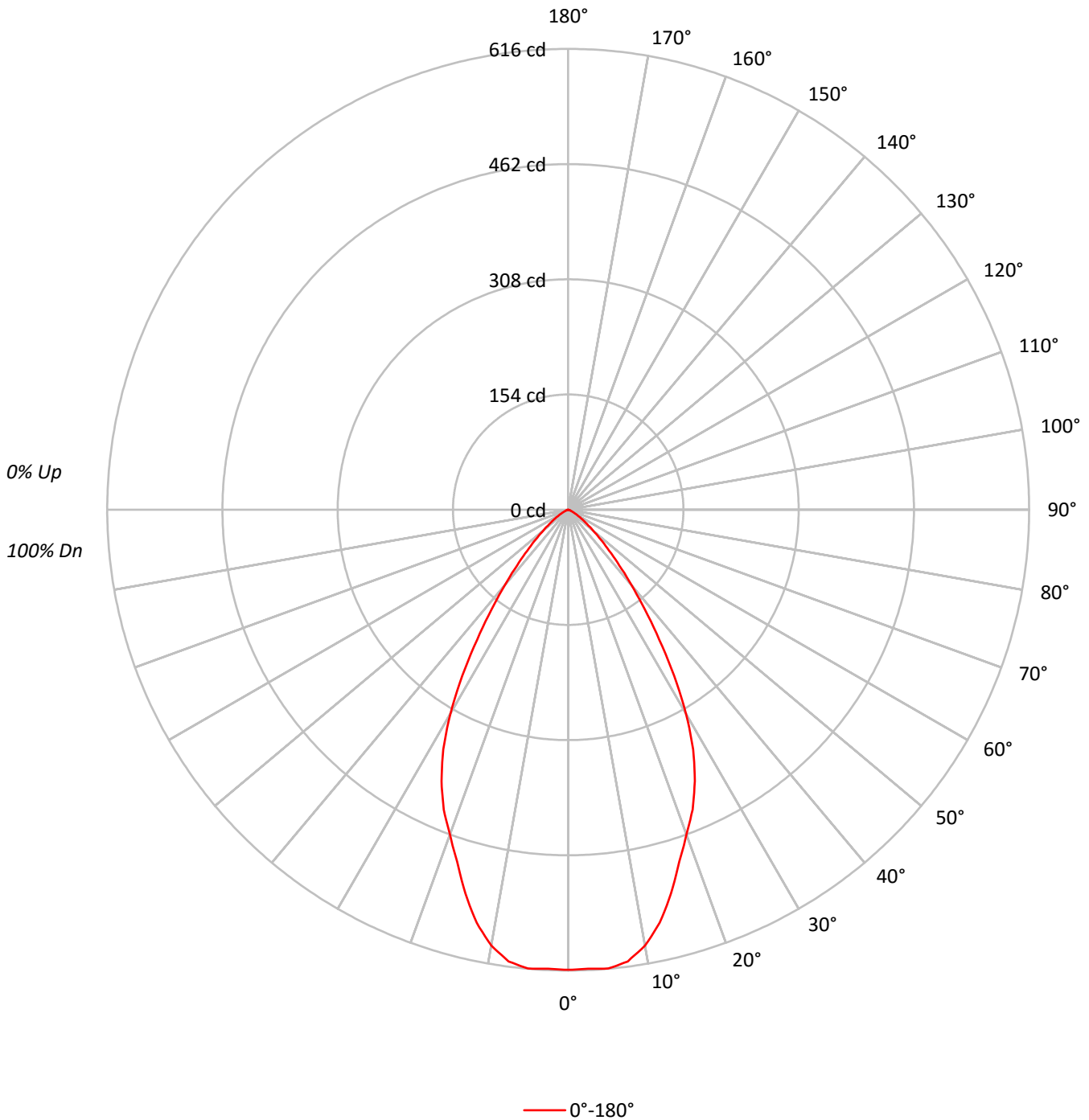
Input Watts (W): 6.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	77	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°	303428
5°	304934
10°	296436
15°	271226
20°	242570
25°	218026
30°	179457
35°	127809
40°	84501
45°	53866
50°	33389
55°	20644
60°	11841
65°	6071
70°	3174
75°	2859
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.0	9.5
10°-20°	148.1	24.2
20°-30°	181.4	29.6
30°-40°	133.8	21.8
40°-50°	61.9	10.1
50°-60°	22.4	3.7
60°-70°	5.8	0.9
70°-80°	1.3	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°	387.5	63.3
0°-40°	521.3	85.1
0°-60°	605.5	98.9
0°-90°	612.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	612.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	615	
5°	616	58
15°	531	148
25°	400	181
35°	212	134
45°	77	62
55°	24	22
65°	5	6
75°	2	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	615.0
2.5°	614.2
5°	615.7
7.5°	609.0
10°	591.7
12.5°	565.5
15°	531.0
17.5°	493.5
20°	462.0
22.5°	434.2
25°	400.5
27.5°	361.5
30°	315.0
32.5°	263.2
35°	212.2
37.5°	168.0
40°	131.2
42.5°	101.2
45°	77.2
47.5°	58.5
50°	43.5
52.5°	32.2
55°	24.0
57.5°	17.2
60°	12.0
62.5°	8.2
65°	5.2
67.5°	3.0
70°	2.2
72.5°	1.5
75°	1.5
77.5°	0.7
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)