

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: P219840

Luminaire Tested: **MRZ-1-REC-X-3-L40-80-WFL-UNV-X-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P219840
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-3-L40-80-WFL-UNV-X-STD
Description: MRZ INTEGRAL LED DOWNLIGHT
55 DEGREE WIDE FLOOD OPTIC, LIGHT LEVEL 3
Light Source: (1) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1243.9 lumens
Efficiency: N/A
Efficacy: 103.7 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

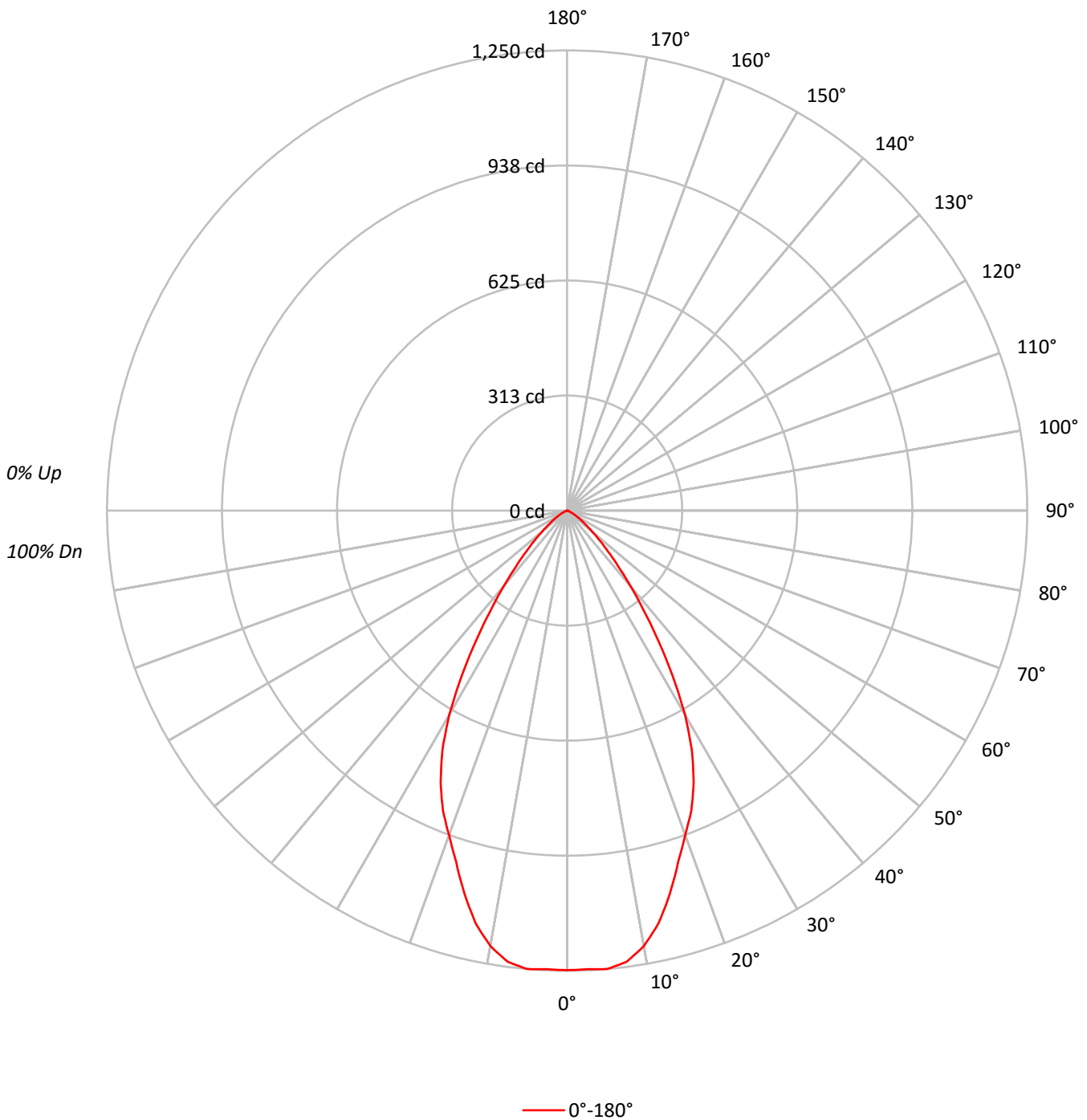
Input Watts (W): 12
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	615984
5°	619080
10°	601840
15°	550625
20°	492438
25°	442639
30°	364327
35°	259533
40°	171642
45°	109406
50°	67776
55°	41891
60°	24077
65°	12492
70°	6636
75°	5719
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.8	9.5
10°-20°	300.6	24.2
20°-30°	368.3	29.6
30°-40°	271.7	21.8
40°-50°	125.6	10.1
50°-60°	45.6	3.7
60°-70°	11.8	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°	786.6	63.2
0°-40°	1058.3	85.1
0°-60°	1229.5	98.8
0°-90°	1243.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1243.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1248	
5°	1250	118
15°	1078	301
25°	813	368
35°	431	272
45°	157	126
55°	49	46
65°	11	12
75°	3	3
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1248.5
2.5°	1247.0
5°	1250.0
7.5°	1236.3
10°	1201.3
12.5°	1148.0
15°	1078.0
17.5°	1001.9
20°	937.9
22.5°	881.6
25°	813.1
27.5°	733.9
30°	639.5
32.5°	534.4
35°	430.9
37.5°	341.1
40°	266.5
42.5°	205.5
45°	156.8
47.5°	118.8
50°	88.3
52.5°	65.5
55°	48.7
57.5°	35.0
60°	24.4
62.5°	16.7
65°	10.7
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)