

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: P219940

Luminaire Tested: **MRZ-1-REC-X-4-L40-80-WFL-UNV-X-STD-SFL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P219940  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14883)  
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-4-L40-80-WFL-UNV-X-STD-SFL  
Description: MRZ INTEGRAL LED DOWNLIGHT  
55 DEGREE WIDE FLOOD OPTIC WITH SOFT FOCUS LENS, LIGHT LEVEL 4  
Light Source: (1) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1486.2 lumens  
Efficiency: N/A  
Efficacy: 94.1 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.9  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

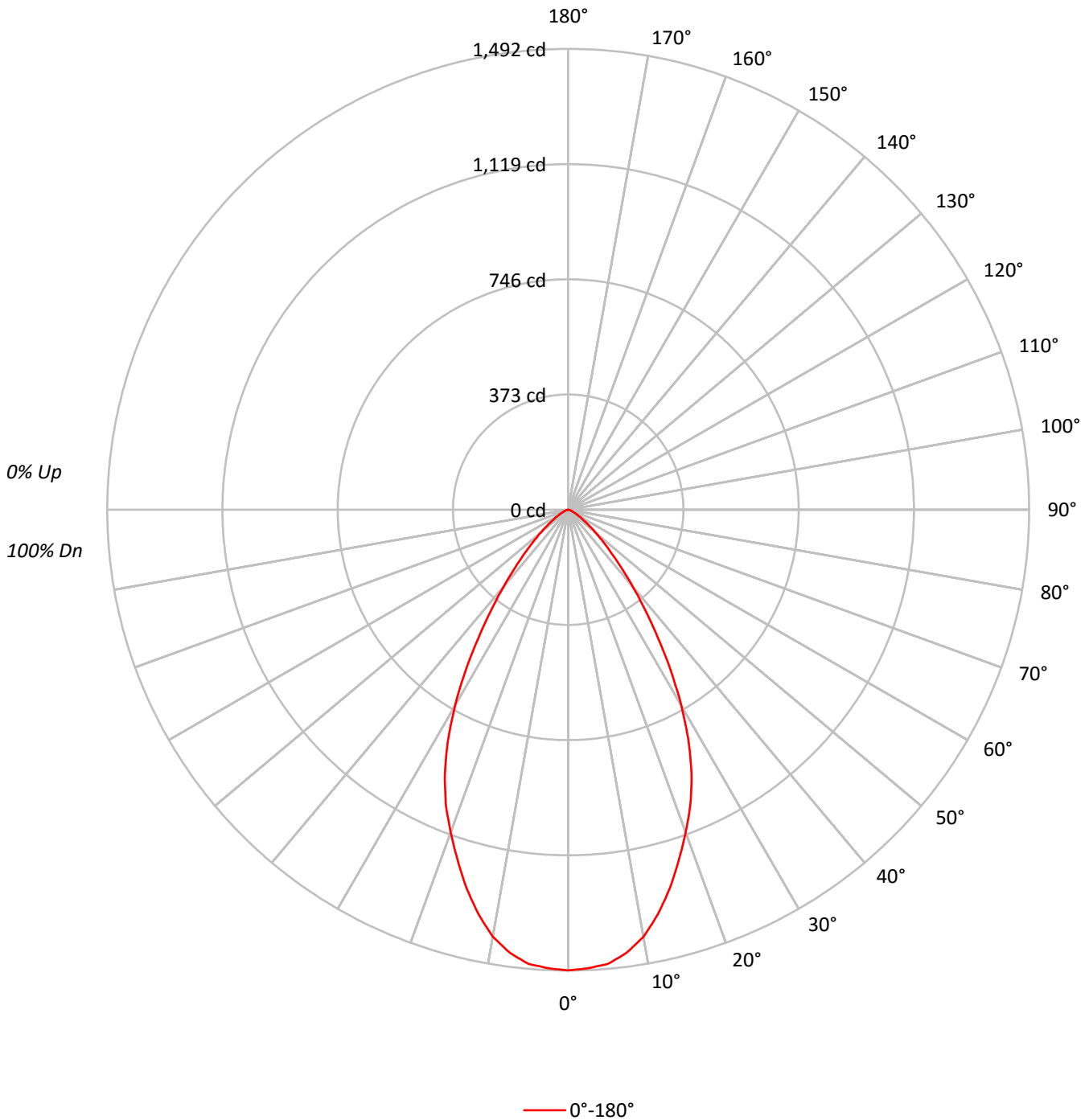
Input Watts (W): 15.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78
4	95	87	81	76	93	86	80	76	83	79	75	81	77	74	79	76	73	71
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	74	71	67	66
6	85	75	69	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54	53
9	72	62	55	51	71	61	55	51	60	55	51	59	54	51	58	54	50	49
10	68	58	52	48	67	58	52	48	57	51	48	56	51	47	55	51	47	46

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	735876
5°	731010
10°	703341
15°	648491
20°	583743
25°	514116
30°	417081
35°	304947
40°	208161
45°	137246
50°	89651
55°	56944
60°	36510
65°	22765
70°	16878
75°	11056
80°	5398
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.5	9.3
10°-20°	354.2	23.8
20°-30°	428.0	28.8
30°-40°	318.5	21.4
40°-50°	156.9	10.6
50°-60°	62.0	4.2
60°-70°	21.4	1.4
70°-80°	6.4	0.4
80°-90°	0.3	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
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0°-30°	920.7	62.0
0°-40°	1239.2	83.4
0°-60°	1458.2	98.1
0°-90°	1486.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1486.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1492	
5°	1476	139
15°	1270	354
25°	944	428
35°	506	318
45°	197	157
55°	66	62
65°	20	21
75°	6	6
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1491.5
2.5°	1485.7
5°	1476.0
7.5°	1446.8
10°	1403.9
12.5°	1341.6
15°	1269.6
17.5°	1189.7
20°	1111.8
22.5°	1034.0
25°	944.4
27.5°	843.1
30°	732.1
32.5°	617.3
35°	506.3
37.5°	408.9
40°	323.2
42.5°	253.1
45°	196.7
47.5°	151.9
50°	116.8
52.5°	87.6
55°	66.2
57.5°	48.7
60°	37.0
62.5°	27.3
65°	19.5
67.5°	15.6
70°	11.7
72.5°	7.8
75°	5.8
77.5°	3.9
80°	1.9
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)