

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: P219859

Luminaire Tested: **MRZ-1-REC-X-1H-L40-97-WFL-UNV-X-STD-HEX**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P219859  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14881)  
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-L40-97-WFL-UNV-X-STD-HEX  
Description: MRZ INTEGRAL LED DOWNLIGHT  
55 DEGREE WIDE FLOOD OPTIC WITH HEX LOUVER, LIGHT LEVEL 1  
Light Source: (1) 4000K CCT, 97 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 240.9 lumens  
Efficiency: N/A  
Efficacy: 35.4 lumens/watt  
Spacing Criteria (0/90/45): 0.62 / 0.62 / 0.67  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

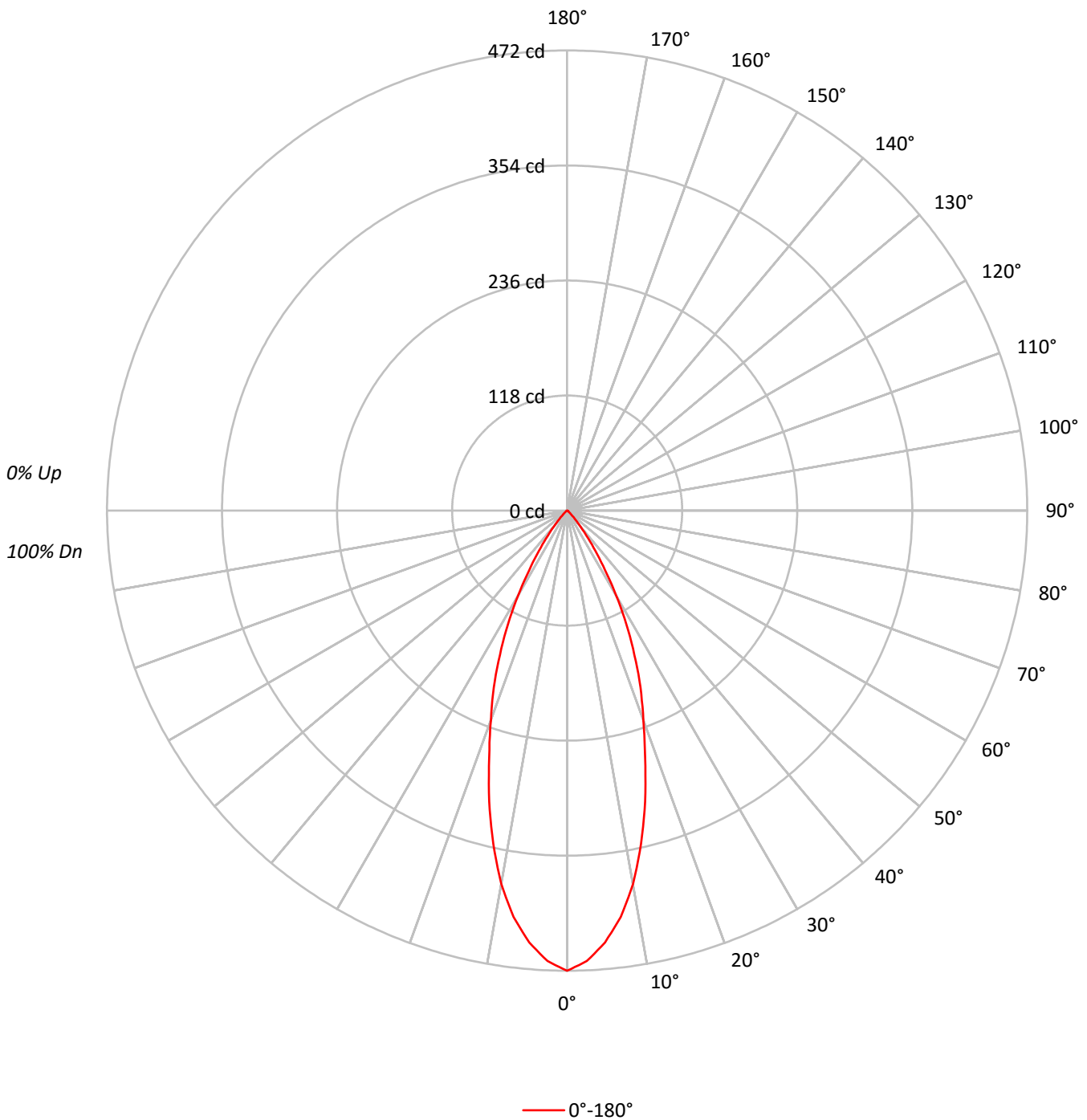
Input Watts (W): 6.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P219859

CATALOG NUMBER: MRZ-1-REC-X-1H-L40-97-WFL-UNV-X-STD-HEX

### Luminous Intensity Polar Plot





TEST NUMBER: P219859

CATALOG NUMBER: MRZ-1-REC-X-1H-L40-97-WFL-UNV-X-STD-HEX

**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	109	107	106	105	104	102	102	100	99	98	97	96	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	89
3	104	99	94	91	103	97	93	90	95	91	89	92	90	87	90	88	86	84
4	100	93	88	85	98	92	88	84	90	86	83	88	85	82	86	84	81	80
5	96	88	83	79	94	87	83	79	86	81	78	84	80	78	83	79	77	76
6	92	84	78	75	90	83	78	74	82	77	74	80	76	73	79	76	73	72
7	88	80	74	71	87	79	74	70	78	73	70	77	73	70	76	72	69	68
8	84	76	71	67	83	75	70	67	74	70	66	73	69	66	72	69	66	65
9	81	72	67	64	80	72	67	63	71	66	63	70	66	63	69	66	63	62
10	78	69	64	61	77	69	64	60	68	63	60	67	63	60	67	63	60	59

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

	0°
0°	232875
5°	220244
10°	194785
15°	157730
20°	120077
25°	88898
30°	57198
35°	30236
40°	13074
45°	4884
50°	1919
55°	1118
60°	592
65°	700
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P219859

CATALOG NUMBER: MRZ-1-REC-X-1H-L40-97-WFL-UNV-X-STD-HEX

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	40.7	16.9
10°-20°	85.0	35.3
20°-30°	74.1	30.8
30°-40°	32.8	13.6
40°-50°	6.4	2.7
50°-60°	1.3	0.6
60°-70°	0.4	0.2
70°-80°	0.0	0.0
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°	199.9	83.0
0°-40°	232.7	96.6
0°-60°	240.5	99.8
0°-90°	240.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	240.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	472	
5°	445	41
15°	309	85
25°	163	74
35°	50	33
45°	7	6
55°	1	1
65°	1	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P219859

CATALOG NUMBER: MRZ-1-REC-X-1H-L40-97-WFL-UNV-X-STD-HEX

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	472.0
2.5°	462.5
5°	444.7
7.5°	420.6
10°	388.8
12.5°	350.1
15°	308.8
17.5°	265.6
20°	228.7
22.5°	196.3
25°	163.3
27.5°	131.5
30°	100.4
32.5°	72.4
35°	50.2
37.5°	32.4
40°	20.3
42.5°	11.4
45°	7.0
47.5°	4.4
50°	2.5
52.5°	1.9
55°	1.3
57.5°	1.3
60°	0.6
62.5°	0.6
65°	0.6
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)