

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: P219731

Luminaire Tested: **MRZ-1-REC-X-1H-L40-80-FL-UNV-X-STD-HEX**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P219731  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14876)  
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-L40-80-FL-UNV-X-STD-HEX  
Description: MRZ INTEGRAL LED DOWNLIGHT  
40 DEGREE FLOOD OPTIC WITH HEX LOUVER, LIGHT LEVEL 1  
Light Source: (1) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 417.9 lumens  
Efficiency: N/A  
Efficacy: 61.5 lumens/watt  
Spacing Criteria (0/90/45): 0.56 / 0.56 / 0.55  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

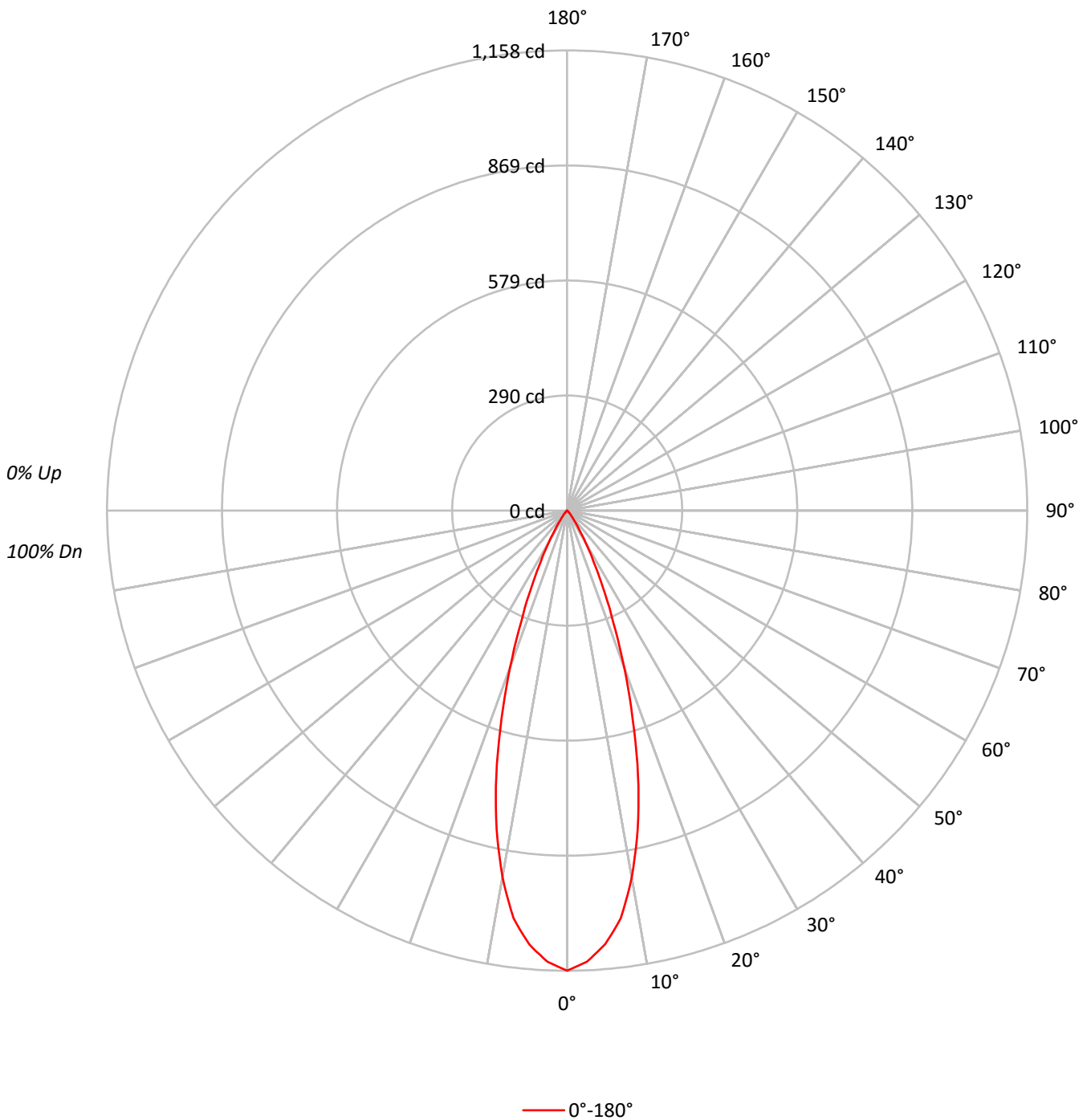
Input Watts (W): 6.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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									100								
1	115	112	110	108	112	110	108	107	106	105	103	103	101	100	99	98	98	96									96								
2	110	106	103	100	108	105	102	99	102	99	97	99	97	95	96	95	93	92									92								
3	106	101	97	94	104	100	96	93	97	94	92	95	93	90	93	91	89	88									88								
4	102	97	92	89	101	95	91	88	93	90	87	92	89	86	90	87	85	84									84								
5	99	92	88	84	97	91	87	84	90	86	83	88	85	83	87	84	82	81									81								
6	95	88	84	80	94	88	83	80	86	83	80	85	82	79	84	81	79	78									78								
7	92	85	80	77	91	84	80	77	83	79	76	82	79	76	81	78	76	75									75								
8	89	82	77	74	88	81	77	74	80	76	73	79	76	73	78	75	73	72									72								
9	86	79	74	71	85	78	74	71	77	73	71	77	73	70	76	73	70	69									69								
10	83	76	71	68	83	76	71	68	75	71	68	74	70	68	73	70	68	67									67								

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

	0°
0°	571186
5°	542710
10°	469378
15°	352032
20°	219416
25°	115301
30°	51957
35°	20117
40°	7858
45°	3977
50°	1842
55°	1376
60°	789
65°	934
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	99.8	23.9
10°-20°	186.3	44.6
20°-30°	101.1	24.2
30°-40°	24.5	5.9
40°-50°	4.6	1.1
50°-60°	1.2	0.3
60°-70°	0.5	0.1
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°	387.1	92.6
0°-40°	411.5	98.5
0°-60°	417.4	99.9
0°-90°	417.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	417.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1158	
5°	1096	100
15°	689	186
25°	212	101
35°	33	24
45°	6	5
55°	2	1
65°	1	0
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1157.7
2.5°	1136.5
5°	1095.8
7.5°	1034.7
10°	936.9
12.5°	821.2
15°	689.2
17.5°	548.3
20°	417.9
22.5°	302.3
25°	211.8
27.5°	142.6
30°	91.2
32.5°	56.2
35°	33.4
37.5°	20.4
40°	12.2
42.5°	8.1
45°	5.7
47.5°	3.3
50°	2.4
52.5°	1.6
55°	1.6
57.5°	0.8
60°	0.8
62.5°	0.8
65°	0.8
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)