

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: P219548

Luminaire Tested: **MRZ-1-REC-X-1H-L35-97-NFL-UNV-X-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P219548  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14859)  
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-L35-97-NFL-UNV-X-STD  
Description: MRZ INTEGRAL LED DOWNLIGHT  
25 DEGREE NARROW FLOOD OPTIC, LIGHT LEVEL 1  
Light Source: (1) 3500K CCT, 97 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 533.8 lumens  
Efficiency: N/A  
Efficacy: 78.5 lumens/watt  
Spacing Criteria (0/90/45): 0.41 / 0.41 / 0.37  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

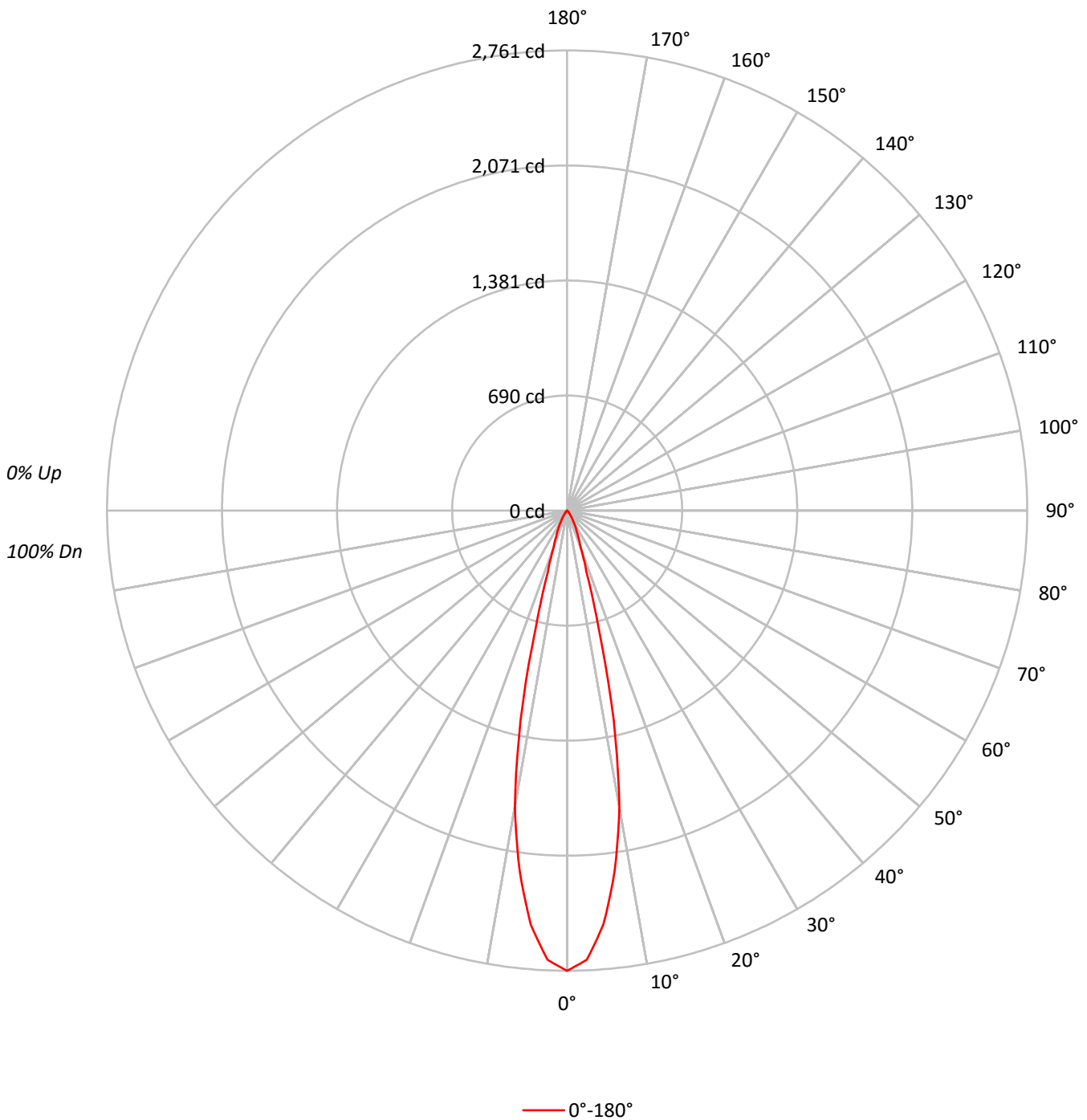
Input Watts (W): 6.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	115	113	111	109	113	111	109	108	107	106	104		103	102	101		100	99	98	97
2	111	108	105	102	109	106	104	101	103	101	99		100	99	97		98	96	95	94
3	108	103	100	97	106	102	99	96	100	97	95		97	95	93		95	93	92	91
4	105	99	96	93	103	98	95	92	96	93	91		95	92	90		93	91	89	88
5	102	96	92	89	100	95	91	89	94	90	88		92	89	87		91	88	86	85
6	99	93	89	86	98	92	88	86	91	88	85		90	87	85		88	86	84	83
7	96	90	86	83	95	89	86	83	88	85	83		87	84	82		86	84	82	81
8	94	87	83	81	93	87	83	81	86	83	80		85	82	80		84	82	80	79
9	91	85	81	78	91	85	81	78	84	80	78		83	80	78		82	80	78	77
10	89	83	79	76	89	83	79	76	82	78	76		81	78	76		81	78	76	75

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

	0°
0°	1362418
5°	1235238
10°	904589
15°	368837
20°	125853
25°	73546
30°	41133
35°	22105
40°	11786
45°	7675
50°	3301
55°	2064
60°	1184
65°	700
70°	866
75°	1144
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	215.8	40.4
10°-20°	218.2	40.9
20°-30°	63.7	11.9
30°-40°	24.4	4.6
40°-50°	8.2	1.5
50°-60°	2.2	0.4
60°-70°	0.8	0.2
70°-80°	0.4	0.1
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°	497.8	93.2
0°-40°	522.2	97.8
0°-60°	532.6	99.8
0°-90°	533.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	533.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2761	
5°	2494	216
15°	722	218
25°	135	64
35°	37	24
45°	11	8
55°	2	2
65°	1	1
75°	1	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2761.4
2.5°	2697.8
5°	2494.1
7.5°	2183.5
10°	1805.6
12.5°	1290.2
15°	722.1
17.5°	383.4
20°	239.7
22.5°	177.9
25°	135.1
27.5°	100.9
30°	72.2
32.5°	52.0
35°	36.7
37.5°	25.7
40°	18.3
42.5°	14.1
45°	11.0
47.5°	6.7
50°	4.3
52.5°	3.1
55°	2.4
57.5°	1.8
60°	1.2
62.5°	1.2
65°	0.6
67.5°	0.6
70°	0.6
72.5°	0.6
75°	0.6
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)