

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: P219834

Luminaire Tested: **MRZ-1-REC-X-2-L30-97-WFL-UNV-X-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P219834  
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-2-L30-97-WFL-UNV-X-STD  
Description: MRZ INTEGRAL LED DOWNLIGHT  
55 DEGREE WIDE FLOOD OPTIC, LIGHT LEVEL2  
Light Source: (1) 3000K CCT, 97 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 653.5 lumens  
Efficiency: N/A  
Efficacy: 74.3 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

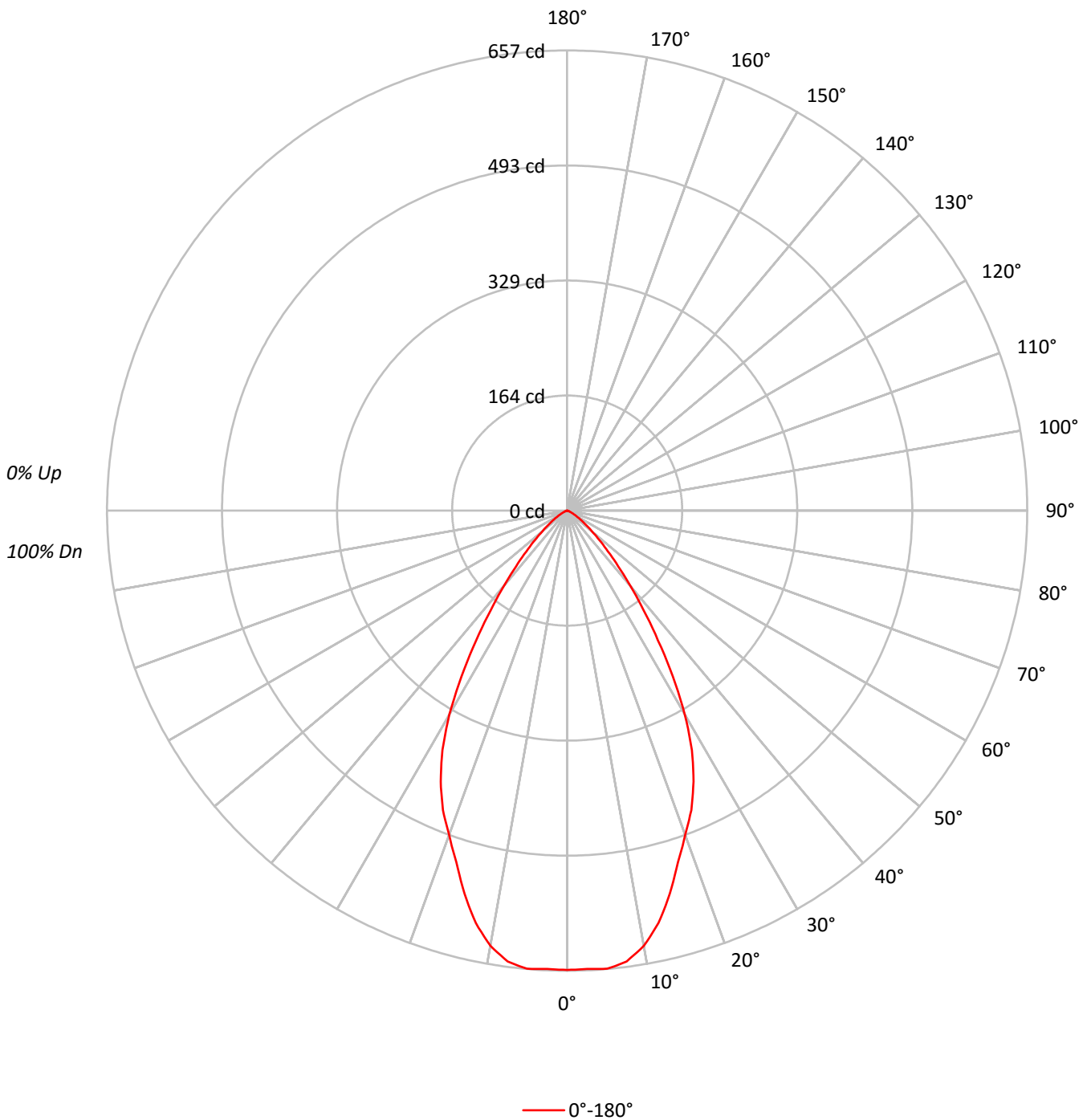
Input Watts (W): 8.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	323608
5°	325240
10°	316175
15°	289257
20°	258689
25°	232506
30°	191421
35°	136362
40°	90169
45°	57494
50°	35615
55°	22021
60°	12631
65°	6538
70°	3462
75°	3050
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.9	9.5
10°-20°	157.9	24.2
20°-30°	193.5	29.6
30°-40°	142.7	21.8
40°-50°	66.0	10.1
50°-60°	23.9	3.7
60°-70°	6.2	0.9
70°-80°	1.4	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°	413.2	63.2
0°-40°	556.0	85.1
0°-60°	645.9	98.8
0°-90°	653.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	653.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	656	
5°	657	62
15°	566	158
25°	427	193
35°	226	143
45°	82	66
55°	26	24
65°	6	6
75°	2	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	655.9
2.5°	655.1
5°	656.7
7.5°	649.5
10°	631.1
12.5°	603.1
15°	566.3
17.5°	526.3
20°	492.7
22.5°	463.1
25°	427.1
27.5°	385.5
30°	336.0
32.5°	280.8
35°	226.4
37.5°	179.2
40°	140.0
42.5°	108.0
45°	82.4
47.5°	62.4
50°	46.4
52.5°	34.4
55°	25.6
57.5°	18.4
60°	12.8
62.5°	8.8
65°	5.6
67.5°	3.2
70°	2.4
72.5°	1.6
75°	1.6
77.5°	0.8
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)