

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: P219814

Luminaire Tested: **MRZ-1-REC-X-4-L30-80-FL-UNV-X-STD-SFL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P219814  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14878)  
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-L30-80-FL-UNV-X-STD-SFL  
Description: MRZ INTEGRAL LED DOWNLIGHT  
40 DEGREE FLOOD OPTIC WITH SOFT FOCUS LENS, LIGHT LEVEL 4  
Light Source: (1) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1514.9 lumens  
Efficiency: N/A  
Efficacy: 95.9 lumens/watt  
Spacing Criteria (0/90/45): 0.7 / 0.7 / 0.66  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

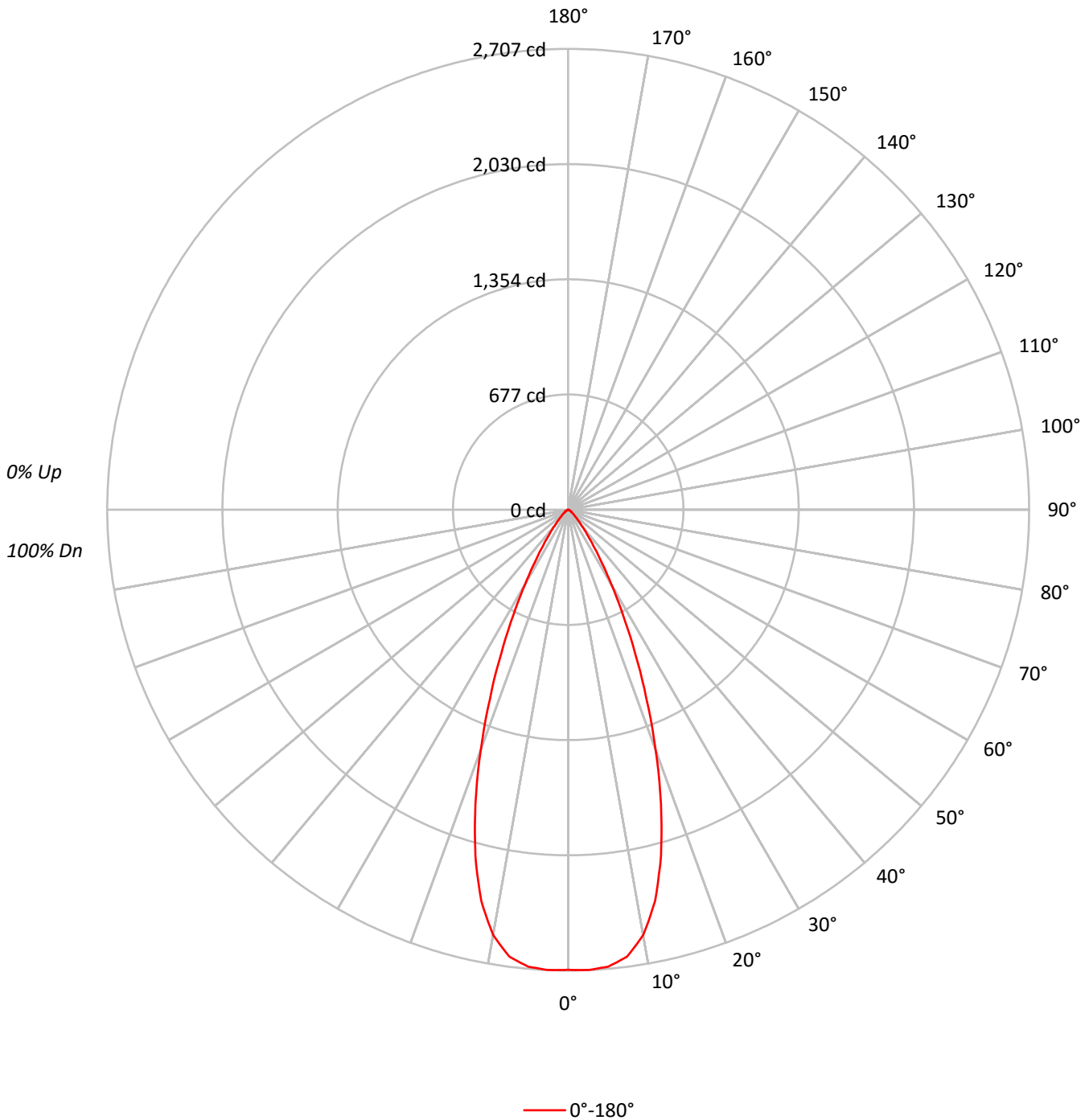
Input Watts (W): 15.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	114	111	109	107	112	109	107	105	105	104	102		102	100	99		98	97	96	94
2	109	105	101	98	107	103	99	97	100	97	95		97	94	93		94	92	91	89
3	104	98	94	90	102	97	93	90	94	91	88		92	89	87		90	88	85	84
4	100	93	88	84	98	92	87	84	90	86	83		88	84	82		86	83	81	79
5	95	88	83	79	94	87	82	78	85	81	78		84	80	77		82	79	76	75
6	91	83	78	74	90	83	78	74	81	77	73		80	76	73		79	75	73	71
7	88	79	74	70	86	79	74	70	77	73	70		76	72	69		75	72	69	68
8	84	76	70	67	83	75	70	66	74	69	66		73	69	66		72	68	66	64
9	81	72	67	63	80	72	67	63	71	66	63		70	66	63		69	65	63	61
10	78	69	64	60	77	69	64	60	68	63	60		67	63	60		66	63	60	59

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

	0°
0°	1333654
5°	1334192
10°	1271164
15°	1075507
20°	788038
25°	505678
30°	288499
35°	153588
40°	82118
45°	47028
50°	29398
55°	20386
60°	14407
65°	10624
70°	7934
75°	6863
80°	5114
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	252.4	16.7
10°-20°	572.4	37.8
20°-30°	429.5	28.3
30°-40°	170.5	11.3
40°-50°	55.7	3.7
50°-60°	21.7	1.4
60°-70°	9.2	0.6
70°-80°	3.3	0.2
80°-90°	0.2	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°	1254.3	82.8
0°-40°	1424.8	94.1
0°-60°	1502.2	99.2
0°-90°	1514.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1514.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2703	
5°	2694	252
15°	2106	572
25°	929	429
35°	255	170
45°	67	56
55°	24	22
65°	9	9
75°	4	3
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2703.1
2.5°	2706.7
5°	2693.9
7.5°	2648.4
10°	2537.3
12.5°	2355.2
15°	2105.6
17.5°	1812.4
20°	1500.9
22.5°	1200.3
25°	928.9
27.5°	695.8
30°	506.4
32.5°	362.5
35°	255.0
37.5°	180.3
40°	127.5
42.5°	92.9
45°	67.4
47.5°	49.2
50°	38.3
52.5°	29.1
55°	23.7
57.5°	18.2
60°	14.6
62.5°	10.9
65°	9.1
67.5°	7.3
70°	5.5
72.5°	3.6
75°	3.6
77.5°	1.8
80°	1.8
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)