

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: P219559

Luminaire Tested: **MRZ-1-REC-X-3-L30-80-NFL-UNV-X-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P219559  
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-3-L30-80-NFL-UNV-X-STD  
Description: MRZ INTEGRAL LED DOWNLIGHT  
25 DEGREE NARROW FLOOD OPTIC, LIGHT LEVEL 3  
Light Source: (1) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

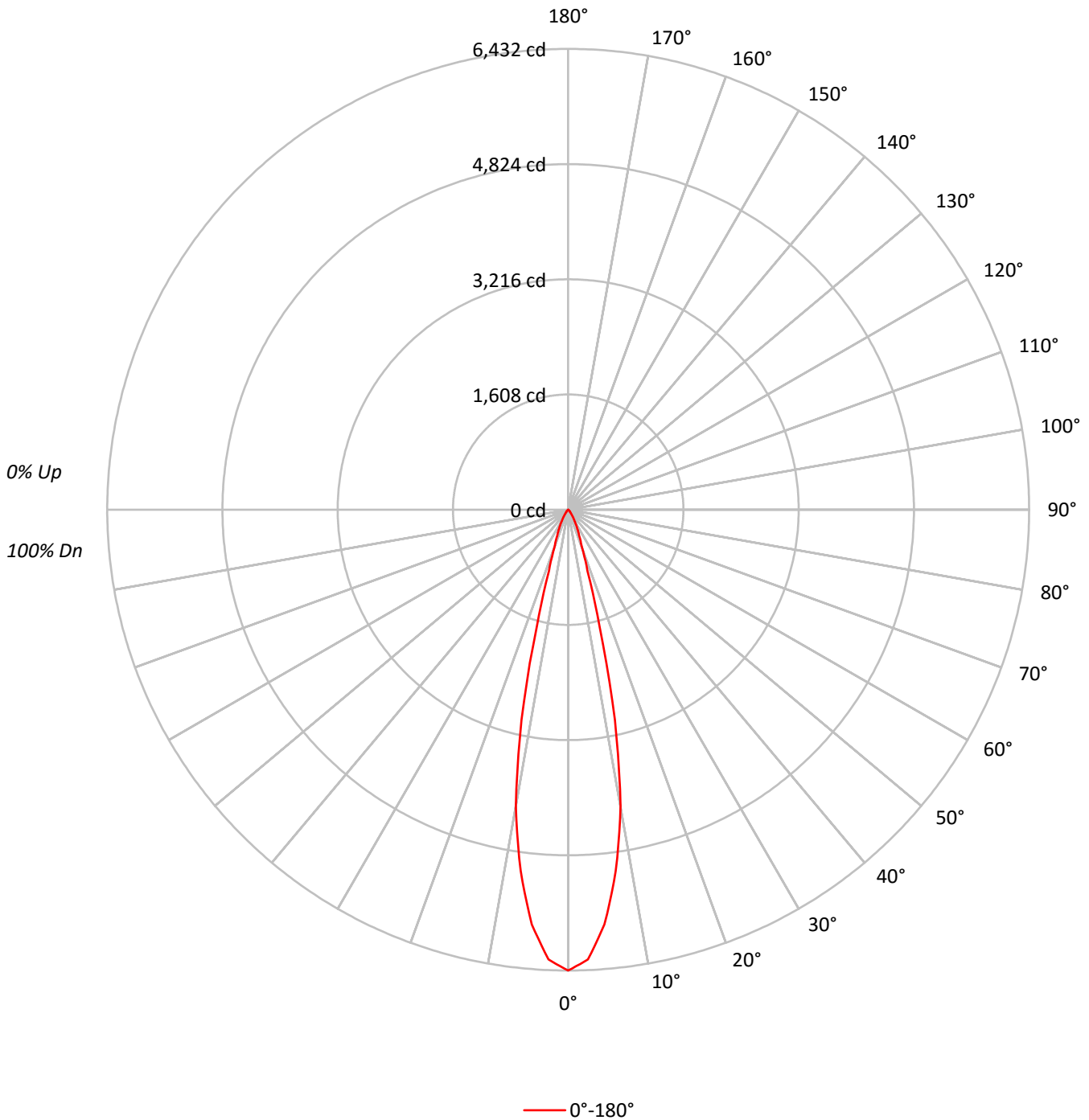
Lumens per Lamp: N/A  
Luminaire Lumens: 1243.5 lumens  
Efficiency: N/A  
Efficacy: 104.5 lumens/watt  
Spacing Criteria (0/90/45): 0.41 / 0.41 / 0.37  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 11.9  
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				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	115	113	111	109	113	111	109	108	107	106	104	103	102	101	100	99	98	98	97	97	97
2	111	108	105	102	109	106	104	101	103	101	99	100	99	97	98	96	95	95	93	92	94
3	108	103	100	97	106	102	99	96	100	97	95	97	95	93	95	93	92	93	91	89	91
4	105	99	96	93	103	98	95	92	96	93	91	95	92	90	93	91	89	91	88	86	88
5	102	96	92	89	100	95	91	89	94	90	88	92	89	87	91	88	86	88	86	84	85
6	99	93	89	86	98	92	88	86	91	88	85	90	87	85	88	86	84	86	84	82	83
7	96	90	86	83	95	89	86	83	88	85	83	87	84	82	86	84	82	84	82	80	81
8	94	87	83	81	93	87	83	81	86	83	80	85	82	80	84	82	80	82	80	78	79
9	91	85	81	78	91	85	81	78	84	80	78	83	80	78	82	80	78	80	78	76	77
10	89	83	79	76	89	83	79	76	82	78	76	81	78	76	81	78	76	79	77	75	75

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

	0°
0°	3173368
5°	2877237
10°	2107067
15°	859139
20°	293132
25°	171372
30°	95768
35°	51497
40°	27501
45°	17862
50°	7676
55°	4903
60°	2763
65°	1634
70°	2020
75°	2669
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	502.8	40.4
10°-20°	508.2	40.9
20°-30°	148.5	11.9
30°-40°	56.9	4.6
40°-50°	19.1	1.5
50°-60°	5.2	0.4
60°-70°	1.9	0.2
70°-80°	0.9	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°	1159.5	93.2
0°-40°	1216.4	97.8
0°-60°	1240.7	99.8
0°-90°	1243.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1243.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	6432	
5°	5810	503
15°	1682	508
25°	315	148
35°	86	57
45°	26	19
55°	6	5
65°	1	2
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	6431.9
2.5°	6283.8
5°	5809.5
7.5°	5086.0
10°	4205.8
12.5°	3005.2
15°	1682.0
17.5°	893.0
20°	558.3
22.5°	414.5
25°	314.8
27.5°	235.0
30°	168.1
32.5°	121.1
35°	85.5
37.5°	59.8
40°	42.7
42.5°	32.8
45°	25.6
47.5°	15.7
50°	10.0
52.5°	7.1
55°	5.7
57.5°	4.3
60°	2.8
62.5°	2.8
65°	1.4
67.5°	1.4
70°	1.4
72.5°	1.4
75°	1.4
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)