

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: P219568

Luminaire Tested: **MRZ-1-REC-X-4-L40-80-NFL-UNV-X-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P219568
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-4-L40-80-NFL-UNV-X-STD
Description: MRZ INTEGRAL LED DOWNLIGHT
25 DEGREE NARROW FLOOD OPTIC, LIGHT LEVEL 4
Light Source: (1) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1700.0 lumens
Efficiency: N/A
Efficacy: 107.6 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

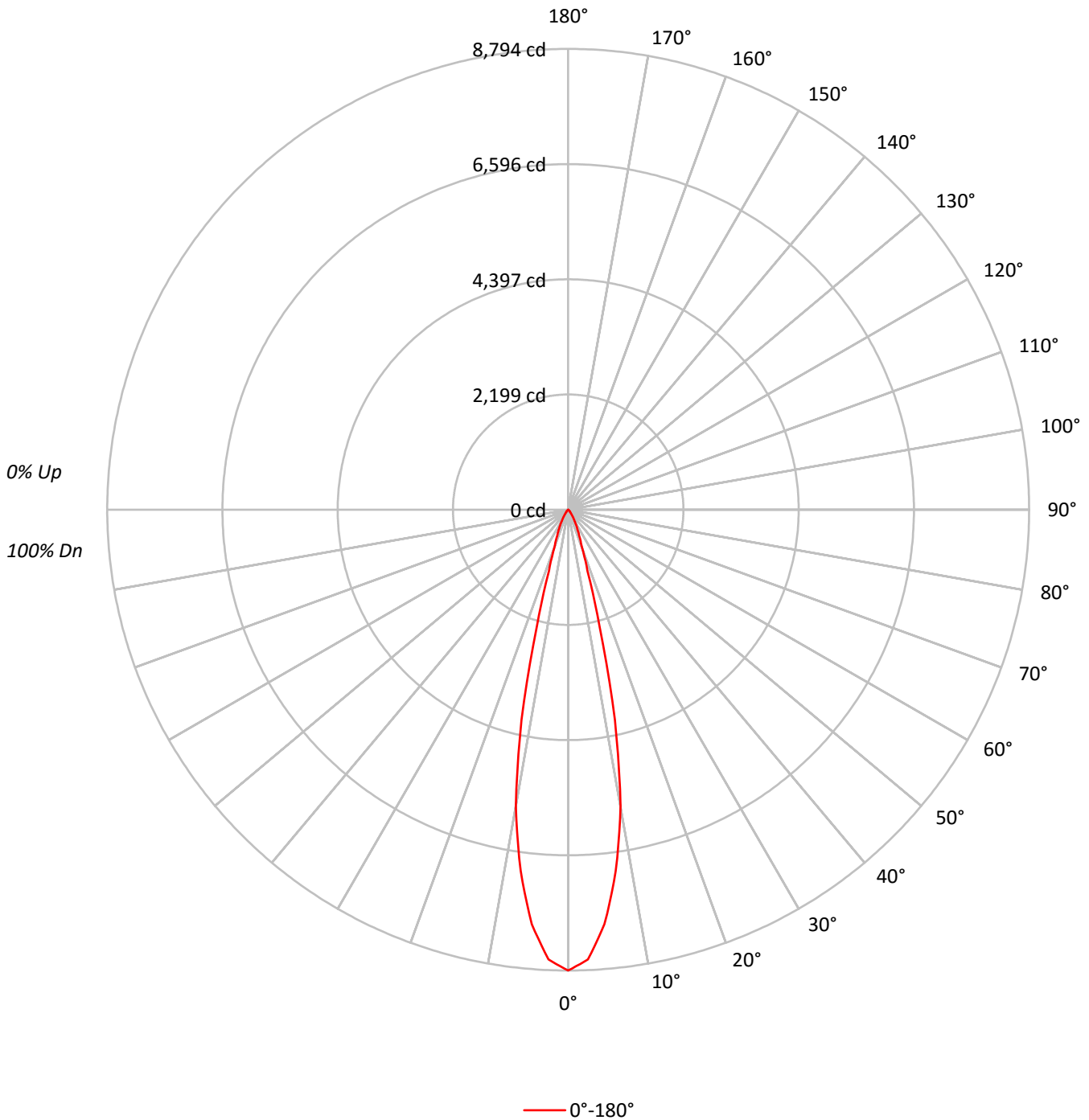
Input Watts (W): 15.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4338533
5°	3933636
10°	2880697
15°	1174599
20°	400766
25°	234248
30°	130918
35°	70349
40°	37613
45°	24421
50°	10439
55°	6709
60°	3848
65°	2218
70°	2741
75°	3622
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	687.4	40.4
10°-20°	694.8	40.9
20°-30°	203.0	11.9
30°-40°	77.7	4.6
40°-50°	26.1	1.5
50°-60°	7.1	0.4
60°-70°	2.6	0.2
70°-80°	1.2	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°	1585.2	93.2
0°-40°	1662.9	97.8
0°-60°	1696.1	99.8
0°-90°	1700.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1700.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8794	
5°	7942	687
15°	2300	695
25°	430	203
35°	117	78
45°	35	26
55°	8	7
65°	2	3
75°	2	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	8793.5
2.5°	8590.9
5°	7942.5
7.5°	6953.4
10°	5750.0
12.5°	4108.5
15°	2299.6
17.5°	1220.9
20°	763.3
22.5°	566.6
25°	430.3
27.5°	321.3
30°	229.8
32.5°	165.5
35°	116.8
37.5°	81.8
40°	58.4
42.5°	44.8
45°	35.0
47.5°	21.4
50°	13.6
52.5°	9.7
55°	7.8
57.5°	5.8
60°	3.9
62.5°	3.9
65°	1.9
67.5°	1.9
70°	1.9
72.5°	1.9
75°	1.9
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)