

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: P219588

Luminaire Tested: **MRZ-1-REC-X-2-L40-97-NFL-UNV-X-STD-HEX**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P219588
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14871)
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-L40-97-NFL-UNV-X-STD-HEX
Description: MRZ INTEGRAL LED DOWNLIGHT
25 DEGREE NARROW FLOOD OPTIC WITH HEX LOUVER, LIGHT LEVEL2
Light Source: (1) 4000K CCT, 97 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 526.2 lumens
Efficiency: N/A
Efficacy: 59.8 lumens/watt
Spacing Criteria (0/90/45): 0.36 / 0.36 / 0.35
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

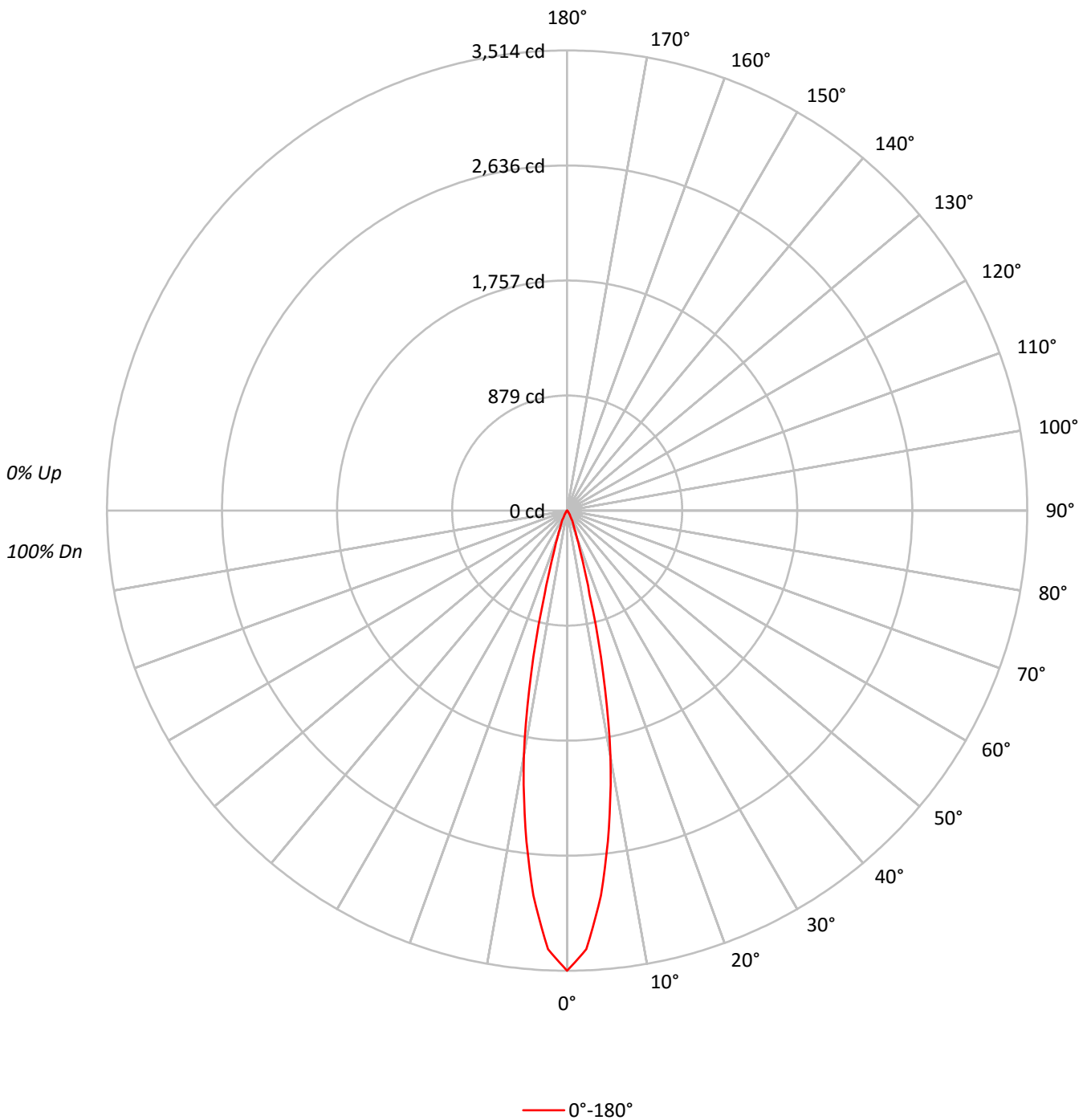
Input Watts (W): 8.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
RW	70	50	30	10	70	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		
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97		
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	96	95		
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	92		
4	106	101	98	95	105	100	97	94	98	95	93	96	94	92	95	93	91	90		
5	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88		
6	101	95	92	89	100	95	91	89	93	90	88	92	90	88	91	89	87	86		
7	99	93	89	87	98	92	89	86	91	88	86	90	88	86	89	87	85	84		
8	96	91	87	84	95	90	87	84	89	86	84	88	86	84	88	85	83	82		
9	94	88	85	82	94	88	85	82	87	84	82	87	84	82	86	83	82	81		
10	92	86	83	81	92	86	83	81	86	82	80	85	82	80	84	82	80	79		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1733686
5°	1461525
10°	954838
15°	336760
20°	108579
25°	56289
30°	26206
35°	12046
40°	5603
45°	3000
50°	1305
55°	774
60°	888
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.2	47.2
10°-20°	210.0	39.9
20°-30°	49.3	9.4
30°-40°	13.8	2.6
40°-50°	3.4	0.7
50°-60°	1.1	0.2
60°-70°	0.3	0.1
70°-80°	0.0	0.0
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°	507.6	96.5
0°-40°	521.4	99.1
0°-60°	525.9	99.9
0°-90°	526.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	526.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3514	
5°	2951	248
15°	659	210
25°	103	49
35°	20	14
45°	4	3
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3513.9
2.5°	3351.5
5°	2951.0
7.5°	2443.7
10°	1905.9
12.5°	1266.6
15°	659.3
17.5°	340.5
20°	206.8
22.5°	143.3
25°	103.4
27.5°	71.2
30°	46.0
32.5°	30.4
35°	20.0
37.5°	13.0
40°	8.7
42.5°	6.1
45°	4.3
47.5°	2.6
50°	1.7
52.5°	1.7
55°	0.9
57.5°	0.9
60°	0.9
62.5°	0.9
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)