

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: P219704

Luminaire Tested: **MRZ-1-REC-X-1H-L40-97-FL-UNV-X-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P219704
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14875)
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-1H-L40-97-FL-UNV-X-STD
Description: MRZ INTEGRAL LED DOWNLIGHT
40 DEGREE FLOOD OPTIC, LIGHT LEVEL 1
Light Source: (1) 4000K CCT, 97 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 557.6 lumens
Efficiency: N/A
Efficacy: 82.0 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

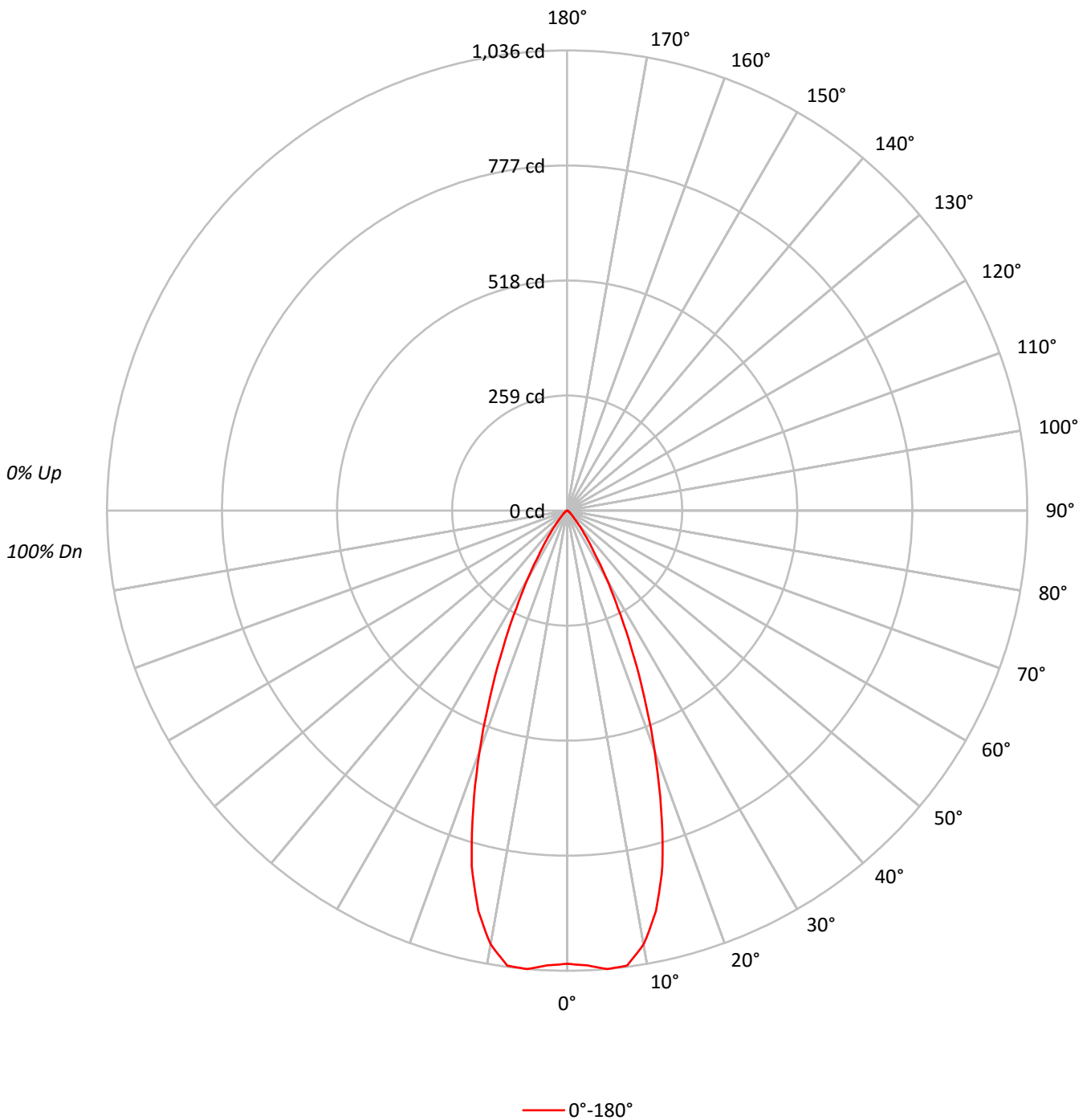
Input Watts (W): 6.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	112	109	107	112	110	108	106	106	104	102	102	101	99	98	97	97	95
2	109	105	101	98	107	103	100	97	100	98	95	97	95	93	95	93	91	90
3	105	99	95	91	103	98	94	91	95	92	89	93	90	88	91	88	86	85
4	100	94	89	85	99	93	88	85	91	87	84	89	86	83	87	84	82	81
5	96	89	84	80	95	88	83	80	86	82	79	85	81	79	83	80	78	77
6	92	85	80	76	91	84	79	76	83	78	75	81	77	75	80	77	74	73
7	89	81	76	72	88	80	75	72	79	75	71	78	74	71	77	73	71	69
8	85	77	72	68	84	77	72	68	76	71	68	75	71	68	74	70	67	66
9	82	74	69	65	81	73	68	65	72	68	65	72	68	65	71	67	64	63
10	79	71	66	62	78	70	65	62	69	65	62	69	65	62	68	64	62	61

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	503395
5°	513193
10°	496833
15°	423491
20°	302215
25°	185744
30°	100268
35°	48245
40°	23315
45°	12420
50°	7292
55°	4903
60°	3158
65°	2218
70°	1875
75°	1144
80°	1705
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.7	17.5
10°-20°	223.5	40.1
20°-30°	158.5	28.4
30°-40°	54.7	9.8
40°-50°	14.9	2.7
50°-60°	5.2	0.9
60°-70°	2.1	0.4
70°-80°	0.9	0.2
80°-90°	0.1	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°	479.7	86.0
0°-40°	534.4	95.8
0°-60°	554.5	99.4
0°-90°	557.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	557.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1020	
5°	1036	98
15°	829	224
25°	341	159
35°	80	55
45°	18	15
55°	6	5
65°	2	2
75°	1	1
85°	0	0
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1020.3
2.5°	1024.8
5°	1036.2
7.5°	1033.0
10°	991.7
12.5°	923.8
15°	829.1
17.5°	703.9
20°	575.6
22.5°	452.4
25°	341.2
27.5°	247.8
30°	176.0
32.5°	119.4
35°	80.1
37.5°	53.4
40°	36.2
42.5°	24.8
45°	17.8
47.5°	12.7
50°	9.5
52.5°	7.0
55°	5.7
57.5°	4.4
60°	3.2
62.5°	2.5
65°	1.9
67.5°	1.9
70°	1.3
72.5°	1.3
75°	0.6
77.5°	0.6
80°	0.6
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)