

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: P219921

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P219921
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14883)
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-WFL-UNV-X-STD-SFL
Description: MRZ INTEGRAL LED DOWNLIGHT
55 DEGREE WIDE FLOOD OPTIC WITH SOFT FOCUS LENS, LIGHT LEVEL 1
Light Source: (1) 4000K CCT, 97 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 484.9 lumens
Efficiency: N/A
Efficacy: 71.3 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.9
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

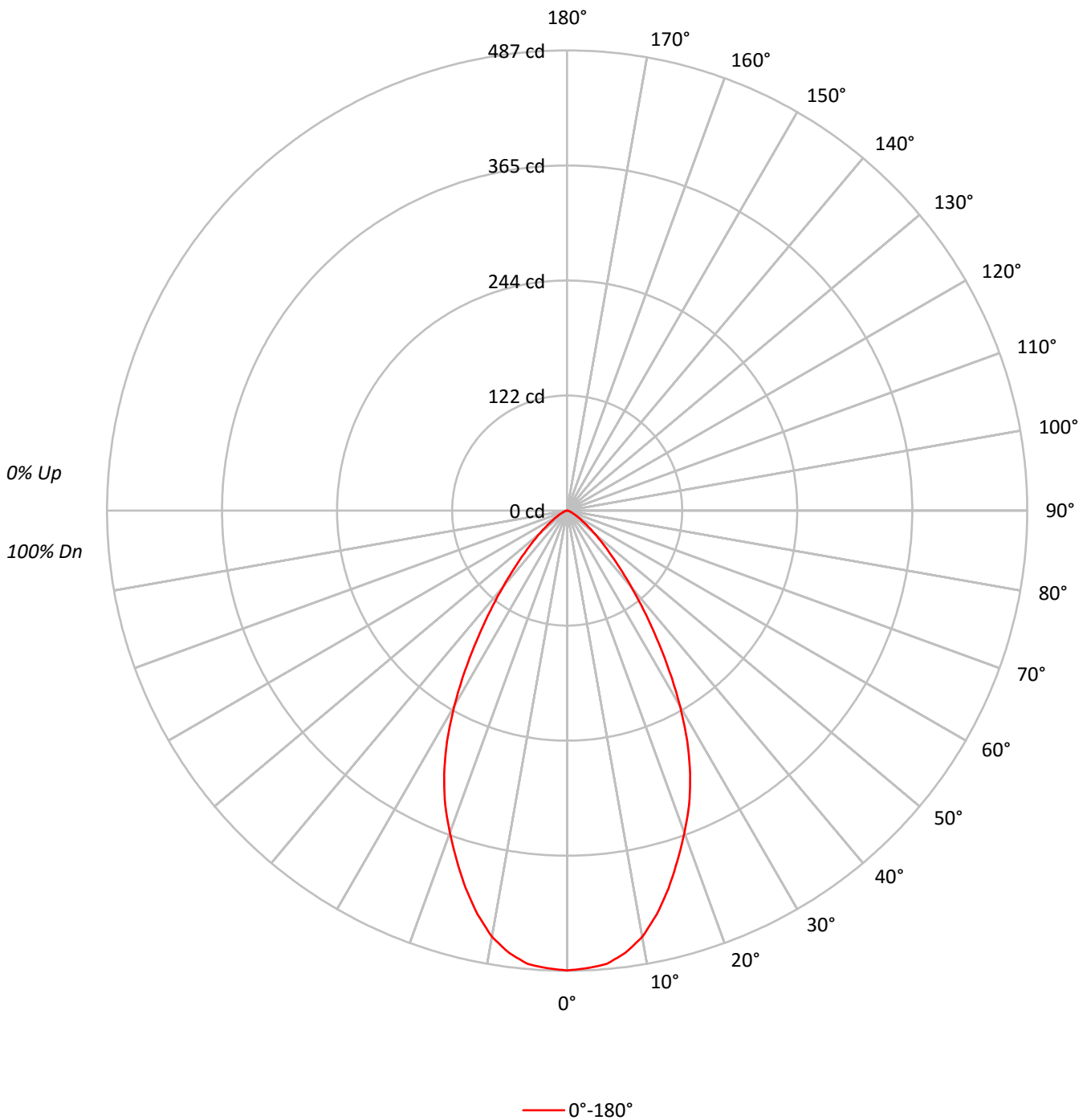
Input Watts (W): 6.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P219921

CATALOG NUMBER: MRZ-1-REC-X-1H-L40-97-WFL-UNV-X-STD-SFL

Luminous Intensity Polar Plot





TEST NUMBER: P219921

CATALOG NUMBER: MRZ-1-REC-X-1H-L40-97-WFL-UNV-X-STD-SFL

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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78
4	95	87	81	76	93	86	80	76	83	79	75	81	77	74	79	76	73	71
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	74	71	67	66
6	85	75	69	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54	53
9	72	62	55	51	71	61	55	51	60	55	51	59	54	51	58	54	50	49
10	68	58	52	48	67	58	52	48	57	51	48	56	51	47	55	51	47	46

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	240128
5°	238519
10°	229504
15°	211567
20°	190486
25°	167725
30°	136103
35°	99501
40°	67948
45°	44795
50°	29244
55°	18580
60°	11940
65°	7472
70°	5482
75°	3622
80°	1705
85°	0



TEST NUMBER: P219921

CATALOG NUMBER: MRZ-1-REC-X-1H-L40-97-WFL-UNV-X-STD-SFL

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.2	9.3
10°-20°	115.6	23.8
20°-30°	139.7	28.8
30°-40°	103.9	21.4
40°-50°	51.2	10.6
50°-60°	20.2	4.2
60°-70°	7.0	1.4
70°-80°	2.1	0.4
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°	300.4	62.0
0°-40°	404.3	83.4
0°-60°	475.8	98.1
0°-90°	484.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	484.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	487	
5°	482	45
15°	414	116
25°	308	140
35°	165	104
45°	64	51
55°	22	20
65°	6	7
75°	2	2
85°	0	0
90°	0	



TEST NUMBER: P219921

CATALOG NUMBER: MRZ-1-REC-X-1H-L40-97-WFL-UNV-X-STD-SFL

CANDELA DISTRIBUTION (FULL):

0°	
0°	486.7
2.5°	484.8
5°	481.6
7.5°	472.0
10°	458.1
12.5°	437.7
15°	414.2
17.5°	388.2
20°	362.8
22.5°	337.4
25°	308.1
27.5°	275.1
30°	238.9
32.5°	201.4
35°	165.2
37.5°	133.4
40°	105.5
42.5°	82.6
45°	64.2
47.5°	49.6
50°	38.1
52.5°	28.6
55°	21.6
57.5°	15.9
60°	12.1
62.5°	8.9
65°	6.4
67.5°	5.1
70°	3.8
72.5°	2.5
75°	1.9
77.5°	1.3
80°	0.6
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)