

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: P219929

Luminaire Tested: **MRZ-1-REC-X-2-L40-97-WFL-UNV-X-STD-SFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P219929
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-2-L40-97-WFL-UNV-X-STD-SFL
Description: MRZ INTEGRAL LED DOWNLIGHT
55 DEGREE WIDE FLOOD OPTIC WITH SOFT FOCUS LENS, LIGHT LEVEL2
Light Source: (1) 4000K CCT, 97 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 663.0 lumens
Efficiency: N/A
Efficacy: 75.3 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

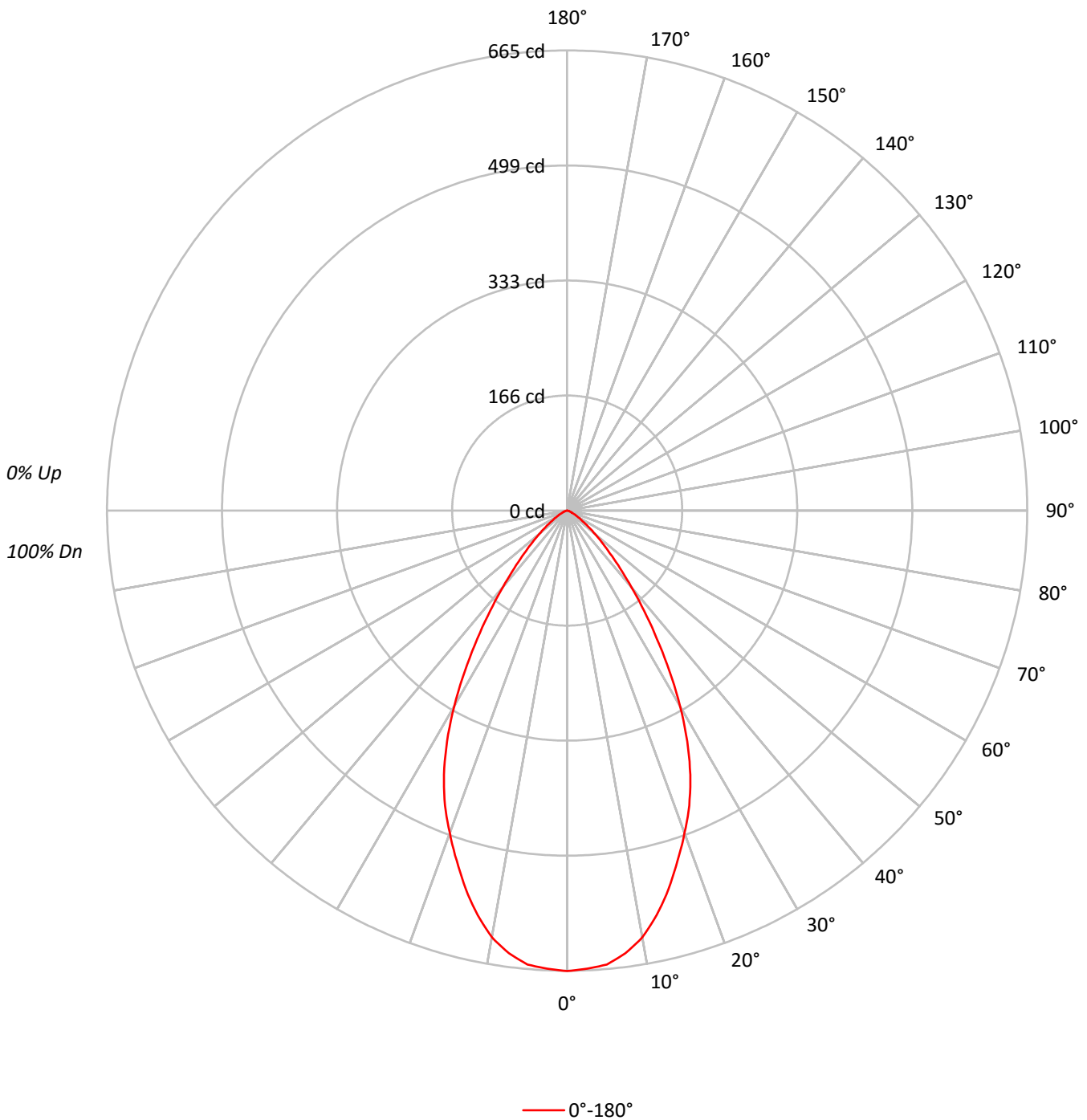
Input Watts (W): 8.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P219929

CATALOG NUMBER: MRZ-1-REC-X-2-L40-97-WFL-UNV-X-STD-SFL

Luminous Intensity Polar Plot





TEST NUMBER: P219929

CATALOG NUMBER: MRZ-1-REC-X-2-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°	328295
5°	326131
10°	313770
15°	289308
20°	260422
25°	229349
30°	186066
35°	136061
40°	92874
45°	61192
50°	39990
55°	25375
60°	16282
65°	10157
70°	7501
75°	4956
80°	2557
85°	0



TEST NUMBER: P219929

CATALOG NUMBER: MRZ-1-REC-X-2-L40-97-WFL-UNV-X-STD-SFL

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.8	9.3
10°-20°	158.0	23.8
20°-30°	190.9	28.8
30°-40°	142.1	21.4
40°-50°	70.0	10.6
50°-60°	27.6	4.2
60°-70°	9.5	1.4
70°-80°	2.9	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°	410.8	62.0
0°-40°	552.9	83.4
0°-60°	650.5	98.1
0°-90°	663.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	663.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	665	
5°	658	62
15°	566	158
25°	421	191
35°	226	142
45°	88	70
55°	30	28
65°	9	10
75°	3	3
85°	0	0
90°	0	



TEST NUMBER: P219929

CATALOG NUMBER: MRZ-1-REC-X-2-L40-97-WFL-UNV-X-STD-SFL

CANDELA DISTRIBUTION (FULL):

	0°
0°	665.4
2.5°	662.8
5°	658.5
7.5°	645.4
10°	626.3
12.5°	598.5
15°	566.4
17.5°	530.8
20°	496.0
22.5°	461.3
25°	421.3
27.5°	376.1
30°	326.6
32.5°	275.4
35°	225.9
37.5°	182.4
40°	144.2
42.5°	112.9
45°	87.7
47.5°	67.8
50°	52.1
52.5°	39.1
55°	29.5
57.5°	21.7
60°	16.5
62.5°	12.2
65°	8.7
67.5°	6.9
70°	5.2
72.5°	3.5
75°	2.6
77.5°	1.7
80°	0.9
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)