

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: P219873

Luminaire Tested: **MRZ-1-REC-X-3-L35-97-WFL-UNV-X-STD-HEX**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P219873
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14881)
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-3-L35-97-WFL-UNV-X-STD-HEX
Description: MRZ INTEGRAL LED DOWNLIGHT
55 DEGREE WIDE FLOOD OPTIC WITH HEX LOUVER, LIGHT LEVEL 3
Light Source: (1) 3500K CCT, 97 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 433.3 lumens
Efficiency: N/A
Efficacy: 36.4 lumens/watt
Spacing Criteria (0/90/45): 0.62 / 0.62 / 0.67
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

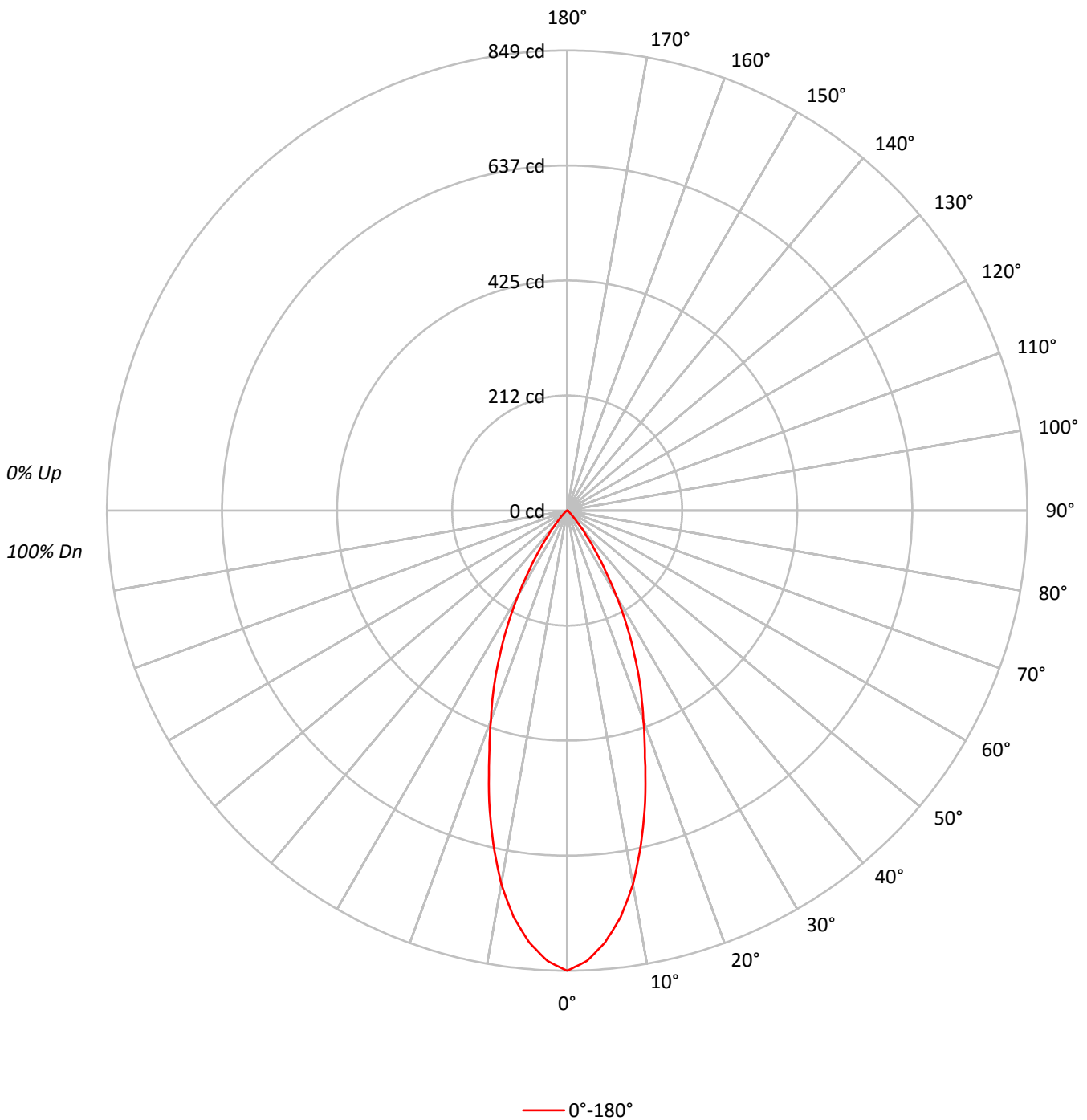
Input Watts (W): 11.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P219873

CATALOG NUMBER: MRZ-1-REC-X-3-L35-97-WFL-UNV-X-STD-HEX

Luminous Intensity Polar Plot





TEST NUMBER: P219873

CATALOG NUMBER: MRZ-1-REC-X-3-L35-97-WFL-UNV-X-STD-HEX

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	109	107	106	105	104	102	102	100	99	98	97	96	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	89
3	104	99	94	91	103	97	93	90	95	91	89	92	90	87	90	88	86	84
4	100	93	88	85	98	92	88	84	90	86	83	88	85	82	86	84	81	80
5	96	88	83	79	94	87	83	79	86	81	78	84	80	78	83	79	77	76
6	92	84	78	75	90	83	78	74	82	77	74	80	76	73	79	76	73	72
7	88	80	74	71	87	79	74	70	78	73	70	77	73	70	76	72	69	68
8	84	76	71	67	83	75	70	67	74	70	66	73	69	66	72	69	66	65
9	81	72	67	64	80	72	67	63	71	66	63	70	66	63	69	66	63	62
10	78	69	64	61	77	69	64	60	68	63	60	67	63	60	67	63	60	59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	418879
5°	396162
10°	350343
15°	283689
20°	216003
25°	159886
30°	102889
35°	54388
40°	23573
45°	8792
50°	3531
55°	1978
60°	1085
65°	1284
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P219873

CATALOG NUMBER: MRZ-1-REC-X-3-L35-97-WFL-UNV-X-STD-HEX

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.2	16.9
10°-20°	152.9	35.3
20°-30°	133.3	30.8
30°-40°	59.1	13.6
40°-50°	11.7	2.7
50°-60°	2.4	0.6
60°-70°	0.7	0.2
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°	359.5	83.0
0°-40°	418.6	96.6
0°-60°	432.7	99.8
0°-90°	433.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	433.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	849	
5°	800	73
15°	555	153
25°	294	133
35°	90	59
45°	13	12
55°	2	2
65°	1	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P219873

CATALOG NUMBER: MRZ-1-REC-X-3-L35-97-WFL-UNV-X-STD-HEX

CANDELA DISTRIBUTION (FULL):

0°	
0°	849.0
2.5°	831.9
5°	799.9
7.5°	756.5
10°	699.3
12.5°	629.6
15°	555.4
17.5°	477.7
20°	411.4
22.5°	353.1
25°	293.7
27.5°	236.5
30°	180.6
32.5°	130.3
35°	90.3
37.5°	58.3
40°	36.6
42.5°	20.6
45°	12.6
47.5°	8.0
50°	4.6
52.5°	3.4
55°	2.3
57.5°	2.3
60°	1.1
62.5°	1.1
65°	1.1
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)