

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: P219863

Luminaire Tested: **MRZ-1-REC-X-2-L40-80-WFL-UNV-X-STD-HEX**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P219863
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-2-L40-80-WFL-UNV-X-STD-HEX
Description: MRZ INTEGRAL LED DOWNLIGHT
55 DEGREE WIDE FLOOD OPTIC WITH HEX LOUVER, LIGHT LEVEL2
Light Source: (1) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 422.4 lumens
Efficiency: N/A
Efficacy: 48.0 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

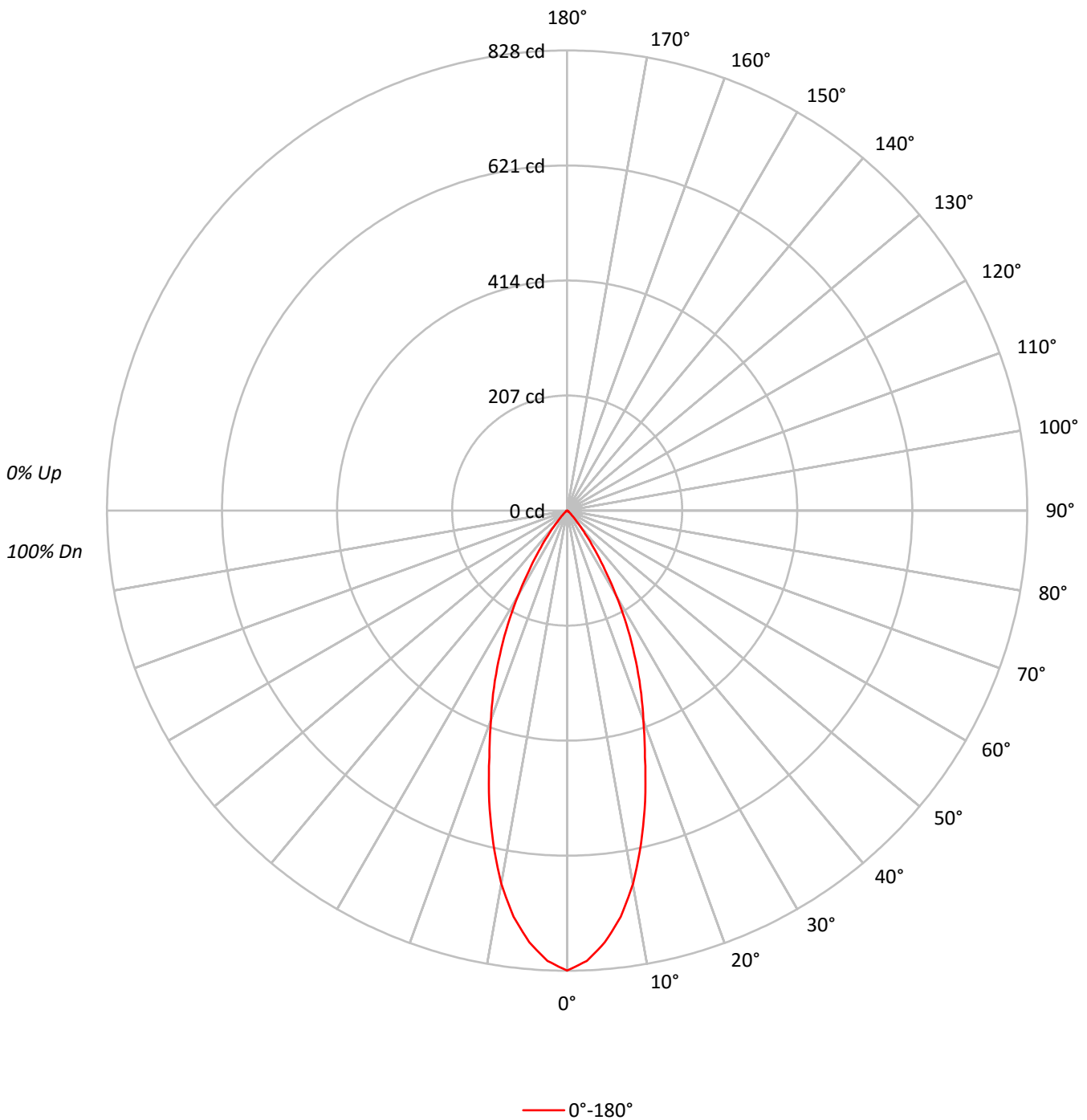
Input Watts (W): 8.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P219863

CATALOG NUMBER: MRZ-1-REC-X-2-L40-80-WFL-UNV-X-STD-HEX

Luminous Intensity Polar Plot





TEST NUMBER: P219863

CATALOG NUMBER: MRZ-1-REC-X-2-L40-80-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°	408370
5°	386207
10°	341525
15°	276539
20°	210542
25°	155857
30°	100268
35°	53003
40°	22929
45°	8582
50°	3454
55°	1892
60°	1085
65°	1284
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P219863

CATALOG NUMBER: MRZ-1-REC-X-2-L40-80-WFL-UNV-X-STD-HEX

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.4	16.9
10°-20°	149.1	35.3
20°-30°	130.0	30.8
30°-40°	57.6	13.6
40°-50°	11.4	2.7
50°-60°	2.3	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°	350.4	83.0
0°-40°	408.0	96.6
0°-60°	421.7	99.8
0°-90°	422.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	422.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	828	
5°	780	71
15°	541	149
25°	286	130
35°	88	58
45°	12	11
55°	2	2
65°	1	1
75°	0	0
85°	0	0
90°	0	

TEST NUMBER: P219863

CATALOG NUMBER: MRZ-1-REC-X-2-L40-80-WFL-UNV-X-STD-HEX

CANDELA DISTRIBUTION (FULL):

0°	
0°	827.7
2.5°	811.0
5°	779.8
7.5°	737.4
10°	681.7
12.5°	613.8
15°	541.4
17.5°	465.6
20°	401.0
22.5°	344.2
25°	286.3
27.5°	230.6
30°	176.0
32.5°	127.0
35°	88.0
37.5°	56.8
40°	35.6
42.5°	20.1
45°	12.3
47.5°	7.8
50°	4.5
52.5°	3.3
55°	2.2
57.5°	2.2
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)