

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: P219561

Luminaire Tested: **MRZ-1-REC-X-3-L40-80-NFL-UNV-X-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P219561
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14859)
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-L40-80-NFL-UNV-X-STD
Description: MRZ INTEGRAL LED DOWNLIGHT
25 DEGREE NARROW FLOOD OPTIC, LIGHT LEVEL 3
Light Source: (1) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1329.3 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Spacing Criteria (0/90/45): 0.41 / 0.41 / 0.37
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

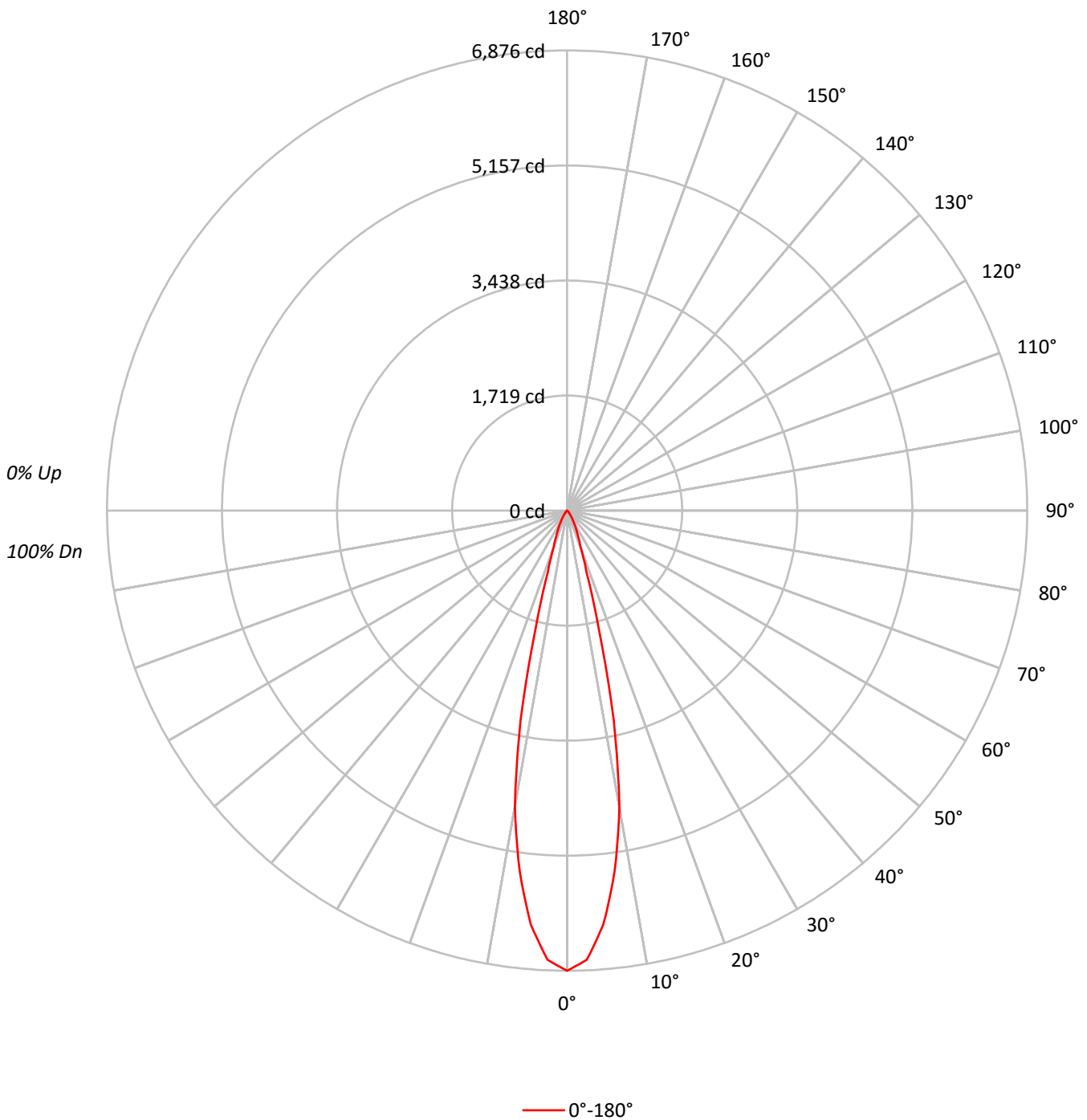
Input Watts (W): 12
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P219561

CATALOG NUMBER: MRZ-1-REC-X-3-L40-80-NFL-UNV-X-STD

Luminous Intensity Polar Plot





TEST NUMBER: P219561

CATALOG NUMBER: MRZ-1-REC-X-3-L40-80-NFL-UNV-X-STD

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	115	113	111	109	113	111	109	108	107	106	104		103	102	101		100	99	98	97
2	111	108	105	102	109	106	104	101	103	101	99		100	99	97		98	96	95	94
3	108	103	100	97	106	102	99	96	100	97	95		97	95	93		95	93	92	91
4	105	99	96	93	103	98	95	92	96	93	91		95	92	90		93	91	89	88
5	102	96	92	89	100	95	91	89	94	90	88		92	89	87		91	88	86	85
6	99	93	89	86	98	92	88	86	91	88	85		90	87	85		88	86	84	83
7	96	90	86	83	95	89	86	83	88	85	83		87	84	82		86	84	82	81
8	94	87	83	81	93	87	83	81	86	83	80		85	82	80		84	82	80	79
9	91	85	81	78	91	85	81	78	84	80	78		83	80	78		82	80	78	77
10	89	83	79	76	89	83	79	76	82	78	76		81	78	76		81	78	76	75

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3392428
5°	3075838
10°	2252504
15°	918441
20°	313346
25°	183185
30°	102376
35°	55051
40°	29434
45°	19118
50°	8213
55°	5247
60°	2960
65°	1751
70°	2164
75°	2859
80°	0
85°	0



TEST NUMBER: P219561

CATALOG NUMBER: MRZ-1-REC-X-3-L40-80-NFL-UNV-X-STD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	537.5	40.4
10°-20°	543.3	40.9
20°-30°	158.7	11.9
30°-40°	60.8	4.6
40°-50°	20.4	1.5
50°-60°	5.6	0.4
60°-70°	2.0	0.2
70°-80°	1.0	0.1
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°	1239.5	93.2
0°-40°	1300.3	97.8
0°-60°	1326.3	99.8
0°-90°	1329.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1329.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6876	
5°	6210	537
15°	1798	543
25°	336	159
35°	91	61
45°	27	20
55°	6	6
65°	2	2
75°	2	1
85°	0	0
90°	0	



TEST NUMBER: P219561

CATALOG NUMBER: MRZ-1-REC-X-3-L40-80-NFL-UNV-X-STD

CANDELA DISTRIBUTION (FULL):

	0°
0°	6875.9
2.5°	6717.5
5°	6210.5
7.5°	5437.1
10°	4496.1
12.5°	3212.6
15°	1798.1
17.5°	954.6
20°	596.8
22.5°	443.1
25°	336.5
27.5°	251.2
30°	179.7
32.5°	129.4
35°	91.4
37.5°	63.9
40°	45.7
42.5°	35.0
45°	27.4
47.5°	16.7
50°	10.7
52.5°	7.6
55°	6.1
57.5°	4.6
60°	3.0
62.5°	3.0
65°	1.5
67.5°	1.5
70°	1.5
72.5°	1.5
75°	1.5
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)