

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: P14859

Luminaire Tested: **MRZ-1-REC-X-3-L27-97-NFL-UNV-X-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: 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-L27-97-NFL-UNV-X-STD
Description: MRZ INTEGRAL LED DOWNLIGHT
25 DEGREE NARROW FLOOD OPTIC, LIGHT LEVEL 3
Light Source: (1) 2700K CCT, 97 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 873.1 lumens
Efficiency: N/A
Efficacy: 73.4 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

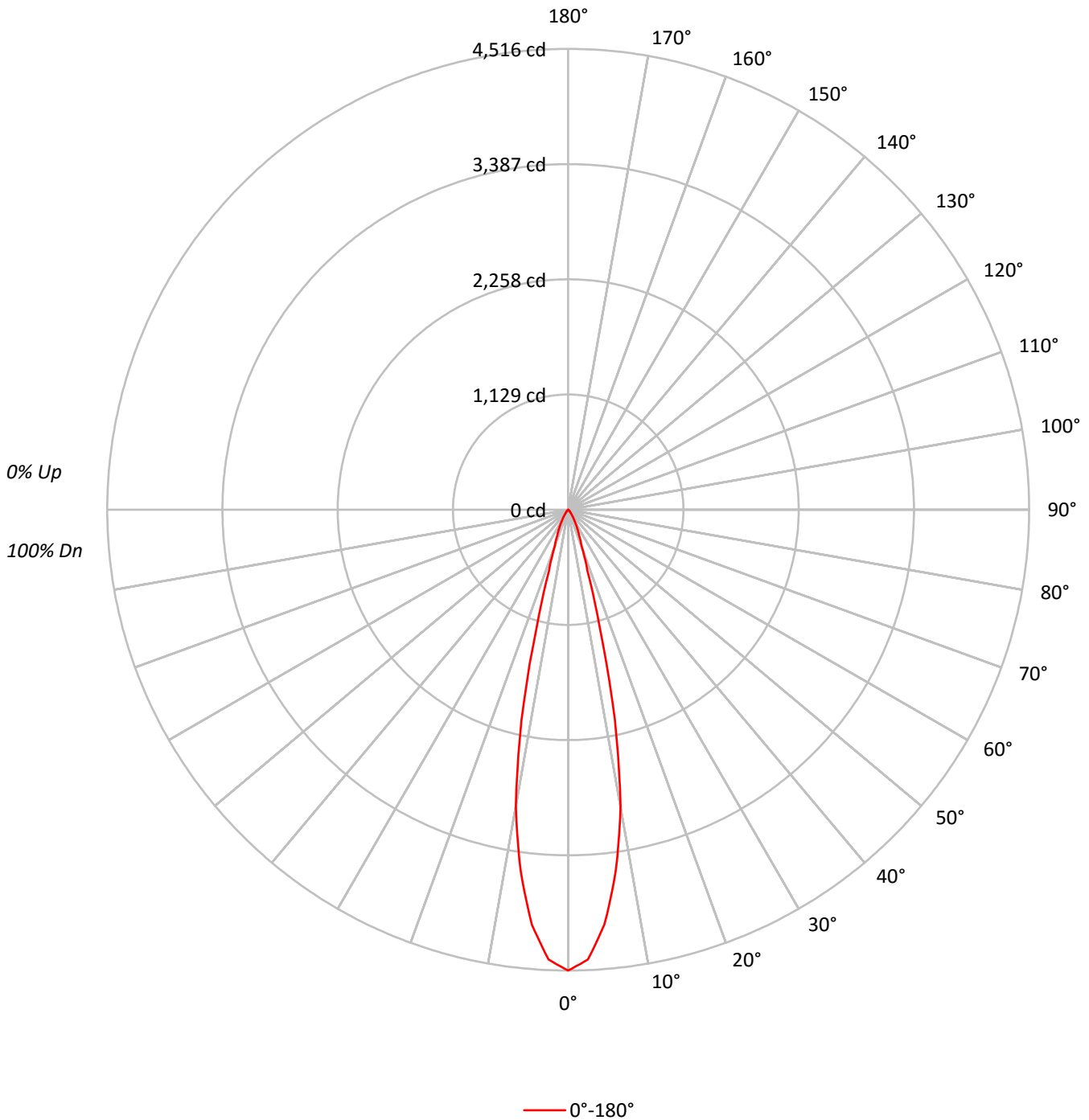
Input Watts (W): 11.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P14859

CATALOG NUMBER: MRZ-1-REC-X-3-L27-97-NFL-UNV-X-STD

Luminous Intensity Polar Plot





TEST NUMBER: P14859

CATALOG NUMBER: MRZ-1-REC-X-3-L27-97-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°	2228102
5°	2020183
10°	1479426
15°	603236
20°	205817
25°	120309
30°	67225
35°	36138
40°	19322
45°	12559
50°	5373
55°	3441
60°	1974
65°	1167
70°	1443
75°	1906
80°	0
85°	0



TEST NUMBER: P14859

CATALOG NUMBER: MRZ-1-REC-X-3-L27-97-NFL-UNV-X-STD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.0	40.4
10°-20°	356.8	40.9
20°-30°	104.3	11.9
30°-40°	39.9	4.6
40°-50°	13.4	1.5
50°-60°	3.7	0.4
60°-70°	1.4	0.2
70°-80°	0.7	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°	814.1	93.2
0°-40°	854.0	97.8
0°-60°	871.1	99.8
0°-90°	873.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	873.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4516	
5°	4079	353
15°	1181	357
25°	221	104
35°	60	40
45°	18	13
55°	4	4
65°	1	1
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P14859

CATALOG NUMBER: MRZ-1-REC-X-3-L27-97-NFL-UNV-X-STD

CANDELA DISTRIBUTION (FULL):

	0°
0°	4516
2.5°	4412
5°	4079
7.5°	3571
10°	2953
12.5°	2110
15°	1181
17.5°	627
20°	392
22.5°	291
25°	221
27.5°	165
30°	118
32.5°	85
35°	60
37.5°	42
40°	30
42.5°	23
45°	18
47.5°	11
50°	7
52.5°	5
55°	4
57.5°	3
60°	2
62.5°	2
65°	1
67.5°	1
70°	1
72.5°	1
75°	1
77.5°	0
80°	0
82.5°	0
85°	0
87.5°	0
90°	0

(END OF REPORT)