

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: P219710

Luminaire Tested: **MRZ-1-REC-X-2-L30-97-FL-UNV-X-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P219710
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14875)
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-L30-97-FL-UNV-X-STD
Description: MRZ INTEGRAL LED DOWNLIGHT
40 DEGREE FLOOD OPTIC, LIGHT LEVEL2
Light Source: (1) 3000K CCT, 97 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 702.1 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Spacing Criteria (0/90/45): 0.7 / 0.7 / 0.66
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

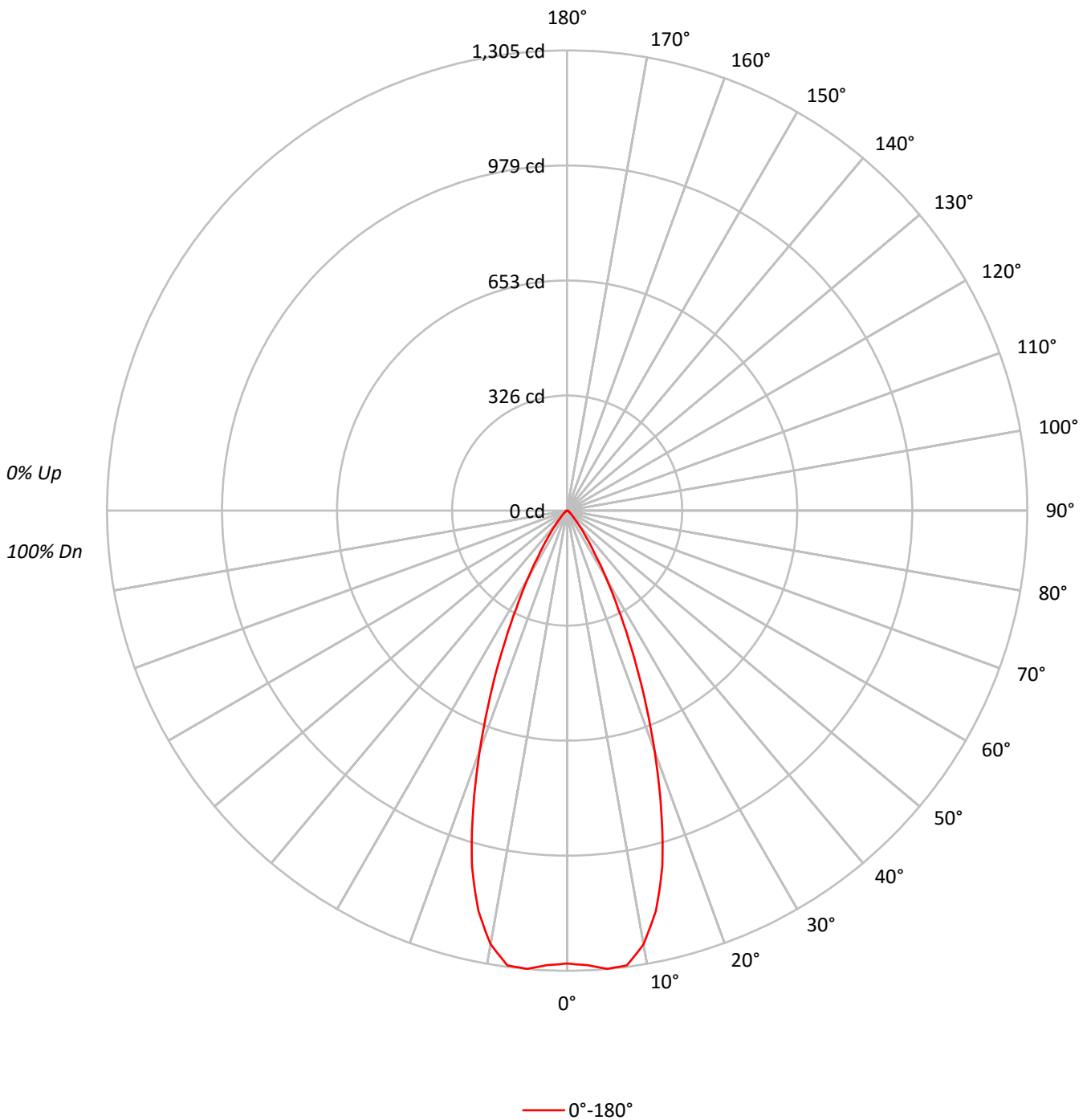
Input Watts (W): 8.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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	110	108	106	106	104	102	102	101	99	98	97	97	95
2	109	105	101	98	107	103	100	97	100	98	95	97	95	93	95	93	91	90
3	105	99	95	91	103	98	94	91	95	92	89	93	90	88	91	88	86	85
4	100	94	89	85	99	93	88	85	91	87	84	89	86	83	87	84	82	81
5	96	89	84	80	95	88	83	80	86	82	79	85	81	79	83	80	78	77
6	92	85	80	76	91	84	79	76	83	78	75	81	77	75	80	77	74	73
7	89	81	76	72	88	80	75	72	79	75	71	78	74	71	77	73	71	69
8	85	77	72	68	84	77	72	68	76	71	68	75	71	68	74	70	67	66
9	82	74	69	65	81	73	68	65	72	68	65	72	68	65	71	67	64	63
10	79	71	66	62	78	70	65	62	69	65	62	69	65	62	68	64	62	61

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	633795
5°	646122
10°	625537
15°	533208
20°	380499
25°	233813
30°	126247
35°	60712
40°	29369
45°	15629
50°	9211
55°	6193
60°	3947
65°	2802
70°	2308
75°	1525
80°	2273
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.0	17.5
10°-20°	281.4	40.1
20°-30°	199.6	28.4
30°-40°	68.9	9.8
40°-50°	18.7	2.7
50°-60°	6.6	0.9
60°-70°	2.7	0.4
70°-80°	1.2	0.2
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°	604.0	86.0
0°-40°	672.8	95.8
0°-60°	698.1	99.4
0°-90°	702.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	702.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1285	
5°	1305	123
15°	1044	281
25°	430	200
35°	101	69
45°	22	19
55°	7	7
65°	2	3
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1284.6
2.5°	1290.2
5°	1304.6
7.5°	1300.6
10°	1248.6
12.5°	1163.0
15°	1043.9
17.5°	886.3
20°	724.7
22.5°	569.5
25°	429.5
27.5°	312.0
30°	221.6
32.5°	150.4
35°	100.8
37.5°	67.2
40°	45.6
42.5°	31.2
45°	22.4
47.5°	16.0
50°	12.0
52.5°	8.8
55°	7.2
57.5°	5.6
60°	4.0
62.5°	3.2
65°	2.4
67.5°	2.4
70°	1.6
72.5°	1.6
75°	0.8
77.5°	0.8
80°	0.8
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)