

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: P219938

Luminaire Tested: **MRZ-1-REC-X-4-L30-80-WFL-UNV-X-STD-SFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P219938
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14883)
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-4-L30-80-WFL-UNV-X-STD-SFL
Description: MRZ INTEGRAL LED DOWNLIGHT
55 DEGREE WIDE FLOOD OPTIC WITH SOFT FOCUS LENS, LIGHT LEVEL 4
Light Source: (1) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1390.2 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.9
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

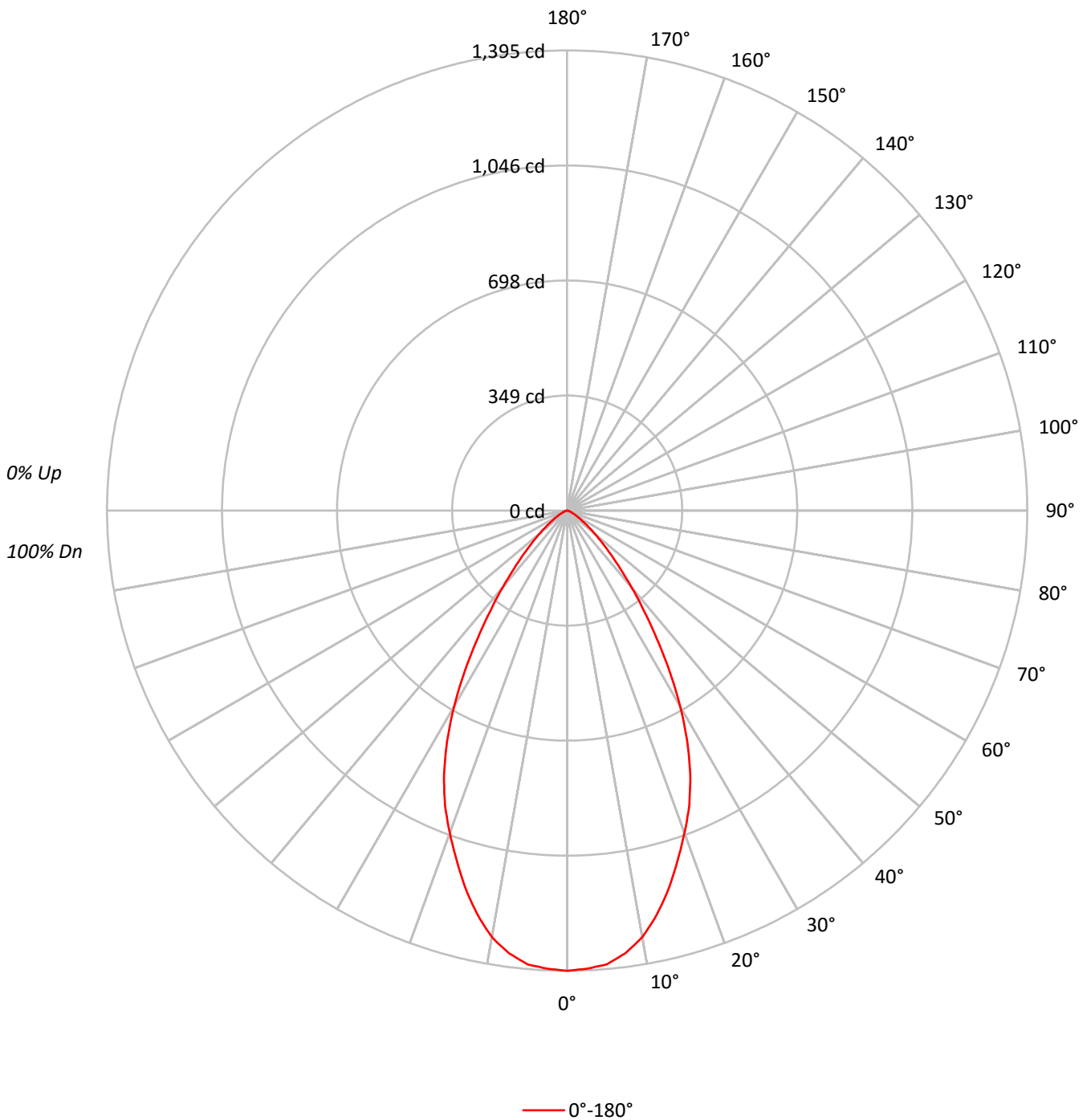
Input Watts (W): 15.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78
4	95	87	81	76	93	86	80	76	83	79	75	81	77	74	79	76	73	71
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	74	71	67	66
6	85	75	69	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54	53
9	72	62	55	51	71	61	55	51	60	55	51	59	54	51	58	54	50	49
10	68	58	52	48	67	58	52	48	57	51	48	56	51	47	55	51	47	46

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	688363
5°	683811
10°	657951
15°	606607
20°	546098
25°	480909
30°	390191
35°	285252
40°	194764
45°	128385
50°	83895
55°	53245
60°	34142
65°	21247
70°	15724
75°	10484
80°	5114
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.6	9.3
10°-20°	331.3	23.8
20°-30°	400.4	28.8
30°-40°	297.9	21.4
40°-50°	146.8	10.6
50°-60°	58.0	4.2
60°-70°	20.0	1.4
70°-80°	6.0	0.4
80°-90°	0.2	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°	861.3	62.0
0°-40°	1159.2	83.4
0°-60°	1364.0	98.1
0°-90°	1390.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1390.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1395	
5°	1381	130
15°	1188	331
25°	883	400
35°	474	298
45°	184	147
55°	62	58
65°	18	20
75°	6	6
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1395.2
2.5°	1389.8
5°	1380.7
7.5°	1353.3
10°	1313.3
12.5°	1255.0
15°	1187.6
17.5°	1112.9
20°	1040.1
22.5°	967.2
25°	883.4
27.5°	788.7
30°	684.9
32.5°	577.4
35°	473.6
37.5°	382.5
40°	302.4
42.5°	236.8
45°	184.0
47.5°	142.1
50°	109.3
52.5°	82.0
55°	61.9
57.5°	45.5
60°	34.6
62.5°	25.5
65°	18.2
67.5°	14.6
70°	10.9
72.5°	7.3
75°	5.5
77.5°	3.6
80°	1.8
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)