

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: P219723

Luminaire Tested: **MRZ-1-REC-X-4-L40-80-FL-UNV-X-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P219723
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-4-L40-80-FL-UNV-X-STD
Description: MRZ INTEGRAL LED DOWNLIGHT
40 DEGREE FLOOD OPTIC, LIGHT LEVEL 4
Light Source: (1) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1708.9 lumens
Efficiency: N/A
Efficacy: 108.2 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

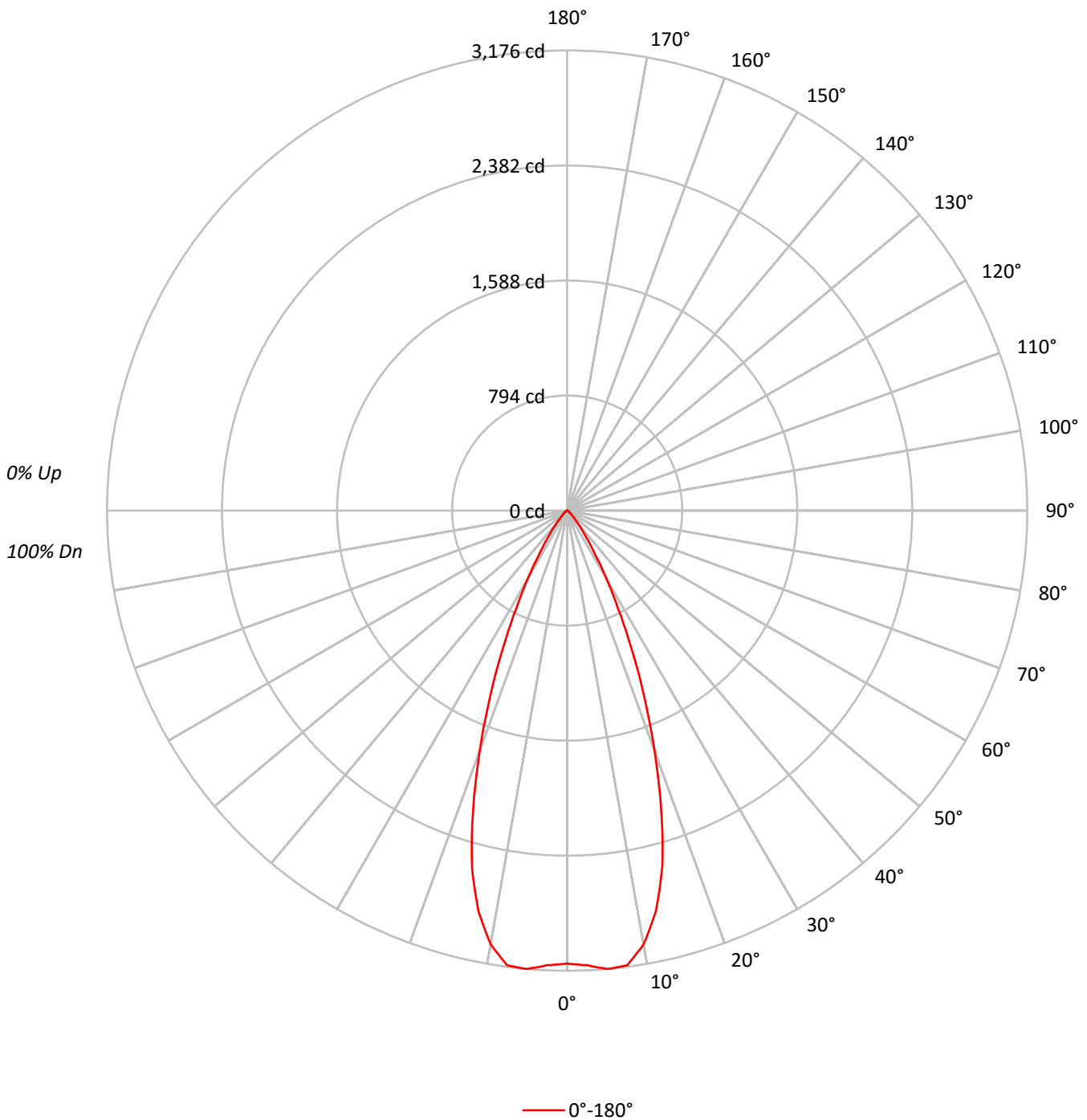
Input Watts (W): 15.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1542897
5°	1572910
10°	1522811
15°	1297953
20°	926282
25°	569208
30°	307299
35°	147745
40°	71491
45°	38027
50°	22413
55°	15053
60°	9572
65°	6771
70°	5626
75°	3622
80°	5398
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.4	17.5
10°-20°	685.0	40.1
20°-30°	485.8	28.4
30°-40°	167.6	9.8
40°-50°	45.5	2.7
50°-60°	16.0	0.9
60°-70°	6.5	0.4
70°-80°	2.8	0.2
80°-90°	0.3	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°	1470.2	86.0
0°-40°	1637.9	95.8
0°-60°	1699.4	99.4
0°-90°	1708.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1708.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3127	
5°	3176	299
15°	2541	685
25°	1046	486
35°	245	168
45°	54	46
55°	18	16
65°	6	6
75°	2	3
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3127.2
2.5°	3140.8
5°	3175.9
7.5°	3166.1
10°	3039.6
12.5°	2831.2
15°	2541.1
17.5°	2157.5
20°	1764.2
22.5°	1386.4
25°	1045.6
27.5°	759.4
30°	539.4
32.5°	366.1
35°	245.3
37.5°	163.6
40°	111.0
42.5°	75.9
45°	54.5
47.5°	38.9
50°	29.2
52.5°	21.4
55°	17.5
57.5°	13.6
60°	9.7
62.5°	7.8
65°	5.8
67.5°	5.8
70°	3.9
72.5°	3.9
75°	1.9
77.5°	1.9
80°	1.9
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)