

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: P219721

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P219721
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-L30-80-FL-UNV-X-STD
Description: MRZ INTEGRAL LED DOWNLIGHT
40 DEGREE FLOOD OPTIC, LIGHT LEVEL 4
Light Source: (1) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1598.6 lumens
Efficiency: N/A
Efficacy: 101.2 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

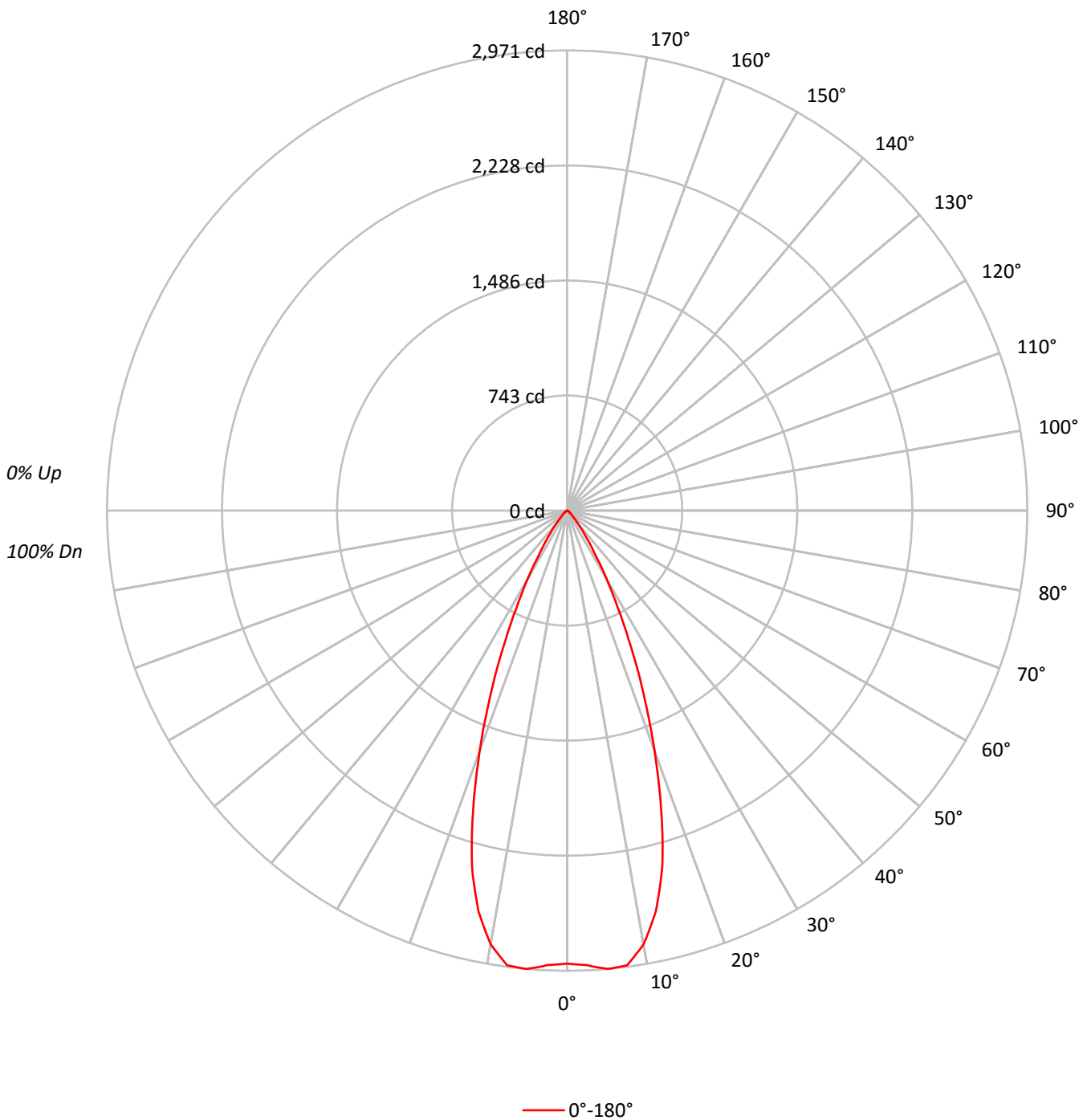
Input Watts (W): 15.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1443283
5°	1471331
10°	1424467
15°	1214134
20°	866427
25°	532462
30°	287416
35°	138229
40°	66854
45°	35585
50°	20954
55°	14107
60°	8980
65°	6421
70°	5193
75°	3431
80°	5114
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.1	17.5
10°-20°	640.8	40.1
20°-30°	454.5	28.4
30°-40°	156.8	9.8
40°-50°	42.6	2.7
50°-60°	15.0	0.9
60°-70°	6.1	0.4
70°-80°	2.6	0.2
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°	1375.3	86.0
0°-40°	1532.1	95.8
0°-60°	1589.7	99.4
0°-90°	1598.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1598.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2925	
5°	2971	280
15°	2377	641
25°	978	454
35°	230	157
45°	51	43
55°	16	15
65°	6	6
75°	2	3
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2925.3
2.5°	2938.0
5°	2970.8
7.5°	2961.7
10°	2843.3
12.5°	2648.4
15°	2377.0
17.5°	2018.2
20°	1650.2
22.5°	1296.9
25°	978.1
27.5°	710.4
30°	504.5
32.5°	342.4
35°	229.5
37.5°	153.0
40°	103.8
42.5°	71.0
45°	51.0
47.5°	36.4
50°	27.3
52.5°	20.0
55°	16.4
57.5°	12.8
60°	9.1
62.5°	7.3
65°	5.5
67.5°	5.5
70°	3.6
72.5°	3.6
75°	1.8
77.5°	1.8
80°	1.8
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)