

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: IRiS

Report Number: P108687

Luminaire Tested: **PN3LED12FL40927-E3MRC**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P108687
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13660)
Test Lab: PEACHTREE CITY
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: IRiS
Catalog Number: PN3LED12FL40927-E3MRC
Description: IRIS 3 INCH LED FIXTURE WITH
SPECULAR CLEAR DOWNLIGHT REFLECTOR
AND 40 DEGREE PRIMARY OPTIC, 0 DEGREE AIMING ANGLE
Light Source: (1) 2700K 90CRI LED
Ballast/Driver: (1) 450mA ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 802.0 lumens
Efficiency: N/A
Efficacy: 43.1 lumens/watt
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.62
Luminous Opening: Circular (Dia: 0.29' x H: 0')
CIE Type: Direct

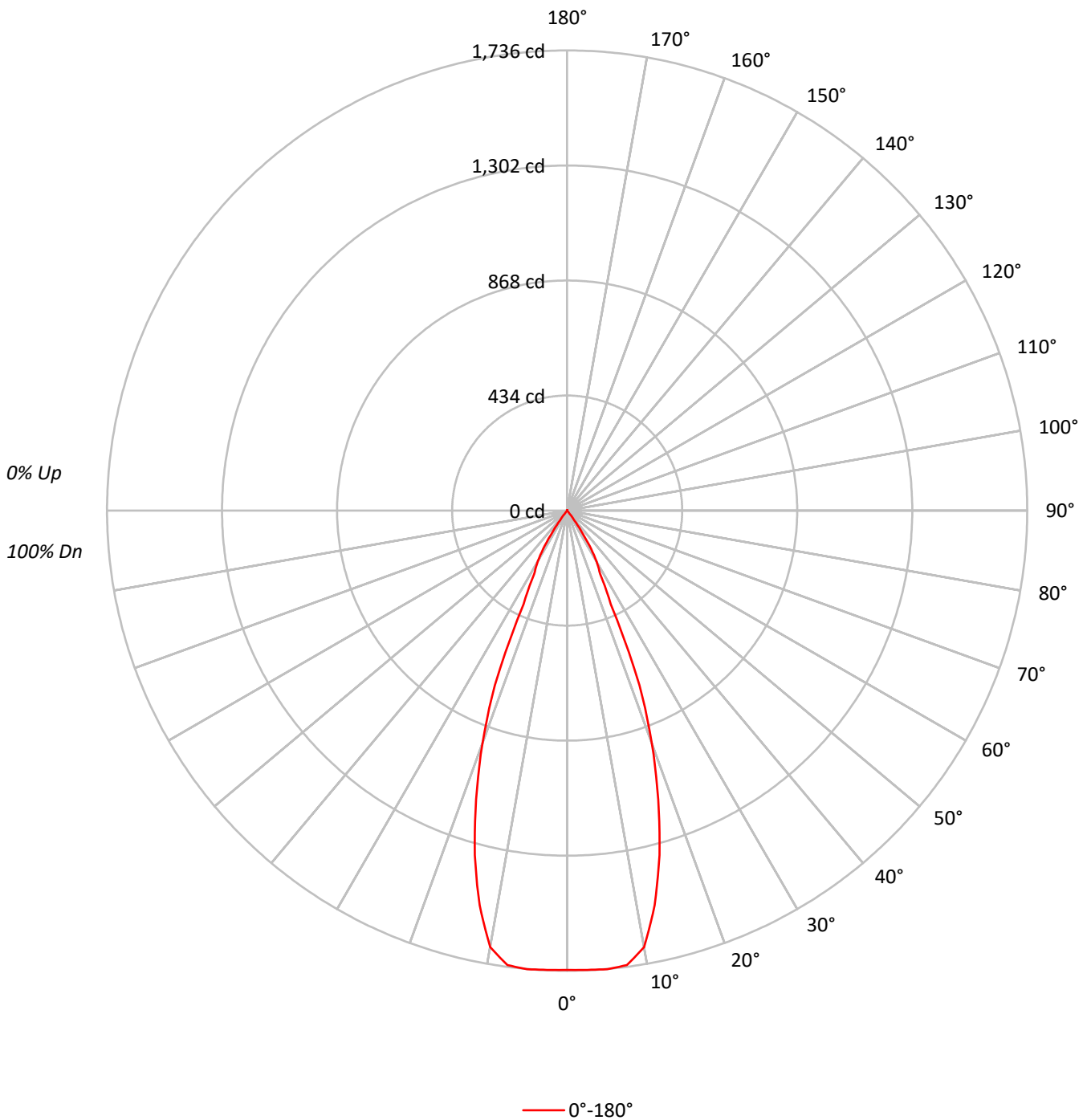
Input Watts (W): 18.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	115	112	110	108	112	110	108	107	106	105	103		102	101	100		99	98	97	96
2	110	106	103	100	108	105	102	99	101	99	97		98	97	95		96	94	93	91
3	106	101	97	94	104	100	96	93	97	94	91		95	92	90		93	91	89	87
4	102	96	92	88	101	95	91	88	93	90	87		91	88	86		89	87	85	84
5	98	92	87	84	97	91	87	83	89	85	83		88	84	82		86	83	81	80
6	95	88	83	80	94	87	83	79	86	82	79		84	81	78		83	80	78	77
7	92	84	79	76	90	84	79	76	82	78	75		81	78	75		80	77	75	74
8	88	81	76	73	87	80	76	73	79	75	72		78	75	72		77	74	72	71
9	85	78	73	70	84	77	73	70	76	72	69		76	72	69		75	71	69	68
10	82	75	70	67	82	74	70	67	74	70	67		73	69	67		72	69	66	65

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	279193
5°	280825
10°	273603
15°	224362
20°	160145
25°	69201
30°	41242
35°	15635
40°	147
45°	0
50°	175
55°	0
60°	0
65°	267
70°	330
75°	436
80°	649
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.1	20.5
10°-20°	365.9	45.6
20°-30°	215.0	26.8
30°-40°	55.3	6.9
40°-50°	0.4	0.1
50°-60°	0.2	0.0
60°-70°	0.3	0.0
70°-80°	0.4	0.0
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°	745.1	92.9
0°-40°	800.4	99.8
0°-60°	801.0	99.9
0°-90°	802.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	802.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1733	
5°	1736	164
15°	1345	366
25°	389	215
35°	80	55
45°	0	0
55°	0	0
65°	1	0
75°	1	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1733.0
2.5°	1734.4
5°	1736.5
7.5°	1729.5
10°	1672.5
12.5°	1525.4
15°	1345.2
17.5°	1142.4
20°	934.1
22.5°	713.1
25°	389.3
27.5°	269.6
30°	221.7
32.5°	157.7
35°	79.5
37.5°	22.5
40°	0.7
42.5°	0.7
45°	0.0
47.5°	0.7
50°	0.7
52.5°	0.0
55°	0.0
57.5°	0.7
60°	0.0
62.5°	0.0
65°	0.7
67.5°	0.0
70°	0.7
72.5°	0.0
75°	0.7
77.5°	0.0
80°	0.7
82.5°	0.7
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)