

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: P108716

Luminaire Tested: **PN3LED12NSP10840-E3MRC**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P108716  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13665)  
Test Lab: PEACHTREE CITY  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: IRiS  
Catalog Number: PN3LED12NSP10840-E3MRC  
Description: IRIS 3 INCH LED FIXTURE WITH  
SPECULAR CLEAR DOWNLIGHT REFLECTOR  
AND 10 DEGREE PRIMARY OPTIC, 0 DEGREE AIMING ANGLE  
Light Source: (1) 4000K 80CRI LED  
Ballast/Driver: (1) 450mA ELECTRONIC DRIVER

**Summary**

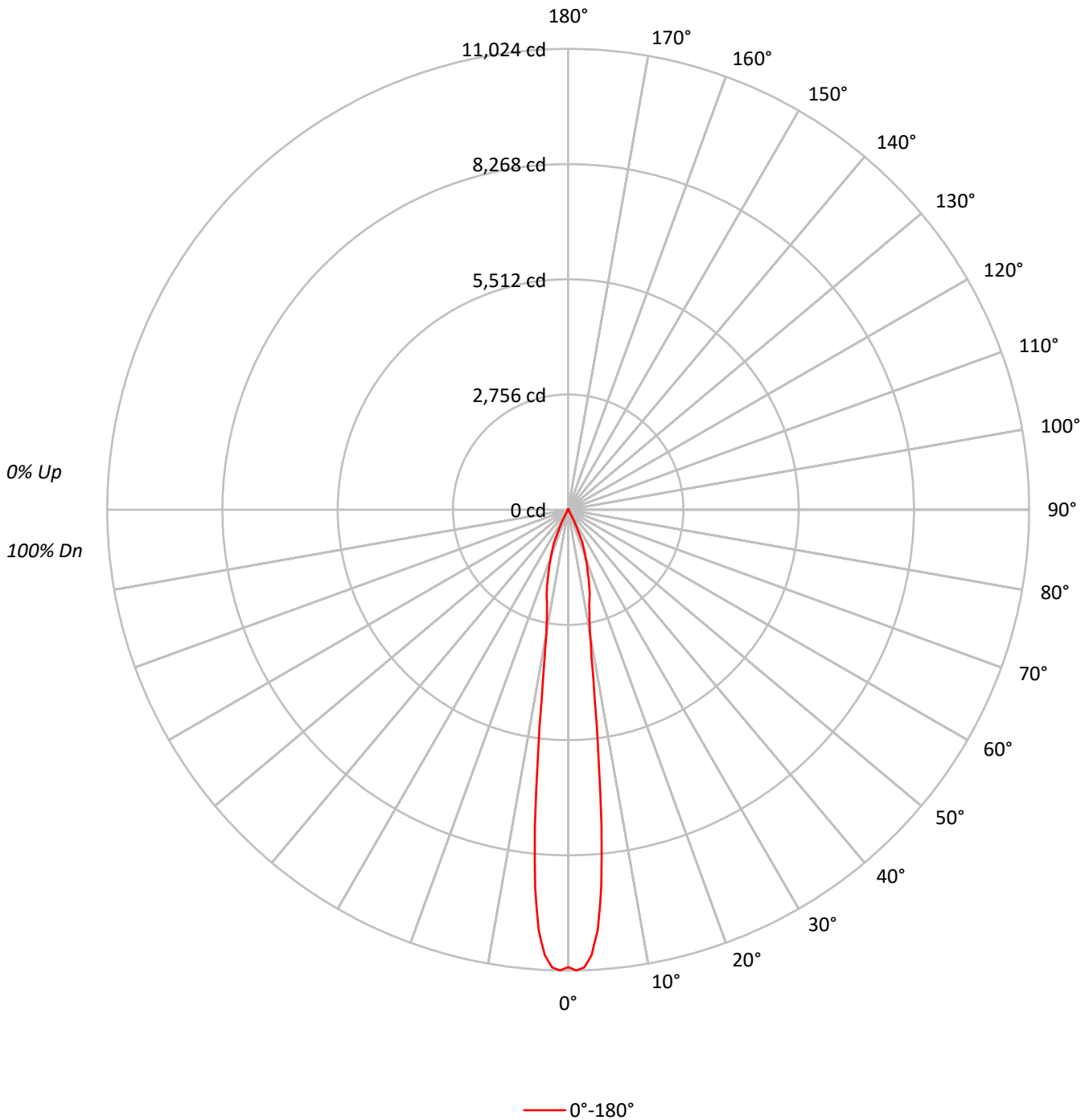
Lumens per Lamp: N/A  
Luminaire Lumens: 1446.8 lumens  
Efficiency: N/A  
Efficacy: 78.2 lumens/watt  
Spacing Criteria (0/90/45): 0.25 / 0.25 / 0.26  
Luminous Opening: Circular (Dia: 0.31' x H: 0')  
CIE Type: Direct

Input Watts (W): 18.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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		107	107	107		102	102	102	100
1	115	113	111	109	113	111	109	108	107	106	104		103	102	101		100	99	98	97
2	112	108	105	103	110	106	104	102	103	101	99		100	99	97		98	96	95	94
3	108	104	100	97	107	102	99	97	100	97	95		98	96	94		96	94	92	91
4	105	100	96	93	104	99	96	93	97	94	92		95	93	91		94	91	90	89
5	102	97	93	90	101	96	92	90	94	91	89		93	90	88		91	89	87	86
6	100	94	90	87	98	93	89	87	92	89	86		91	88	86		89	87	85	84
7	97	91	87	84	96	90	87	84	89	86	84		88	85	83		87	85	83	82
8	95	89	85	82	94	88	84	82	87	84	82		86	83	81		86	83	81	80
9	93	86	82	80	92	86	82	80	85	82	79		84	81	79		84	81	79	78
10	90	84	80	78	90	84	80	78	83	80	78		83	80	77		82	79	77	76

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	1535947
5°	1276869
10°	428739
15°	286498
20°	182412
25°	85445
30°	6547
35°	1970
40°	220
45°	0
50°	0
55°	0
60°	3565
65°	398
70°	492
75°	3741
80°	0
85°	18517



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	618.0	42.7
10°-20°	538.4	37.2
20°-30°	266.4	18.4
30°-40°	7.0	0.5
40°-50°	1.9	0.1
50°-60°	5.6	0.4
60°-70°	2.3	0.2
70°-80°	3.5	0.2
80°-90°	5.7	0.4
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°	1422.8	98.3
0°-40°	1429.8	98.8
0°-60°	1437.3	99.3
0°-90°	1448.8	100.1
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1446.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	10944	
5°	9064	618
15°	1972	538
25°	552	266
35°	12	7
45°	0	2
55°	0	6
65°	1	2
75°	7	4
85°	12	6
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	10944.5
1°	11024.2
2°	10958.3
3°	10674.3
4°	10087.9
5°	9063.8
6°	7617.3
7°	5946.7
8°	4538.3
9°	3580.0
10°	3008.6
11°	2668.0
12.5°	2332.1
15°	1971.9
17.5°	1556.2
20°	1221.4
22.5°	946.7
25°	551.8
27.5°	315.2
30°	40.4
32.5°	5.8
35°	11.5
37.5°	8.1
40°	1.2
42.5°	4.6
45°	0.0
47.5°	4.6
50°	0.0
52.5°	0.0
55°	0.0
57.5°	9.2
60°	12.7
62.5°	0.0
65°	1.2
67.5°	1.2
70°	1.2
72.5°	4.6
75°	6.9
77.5°	1.2
80°	0.0
82.5°	5.8
85°	11.5
87.5°	3.5
90°	0.0

(END OF REPORT)