

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: P108713

Luminaire Tested: **PN3LED12NSP10827-E3MRC**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P108713
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: PN3LED12NSP10827-E3MRC
Description: IRIS 3 INCH LED FIXTURE WITH
SPECULAR CLEAR DOWNLIGHT REFLECTOR
AND 10 DEGREE PRIMARY OPTIC, 0 DEGREE AIMING ANGLE
Light Source: (1) 2700K 80CRI LED
Ballast/Driver: (1) 450mA ELECTRONIC DRIVER

Summary

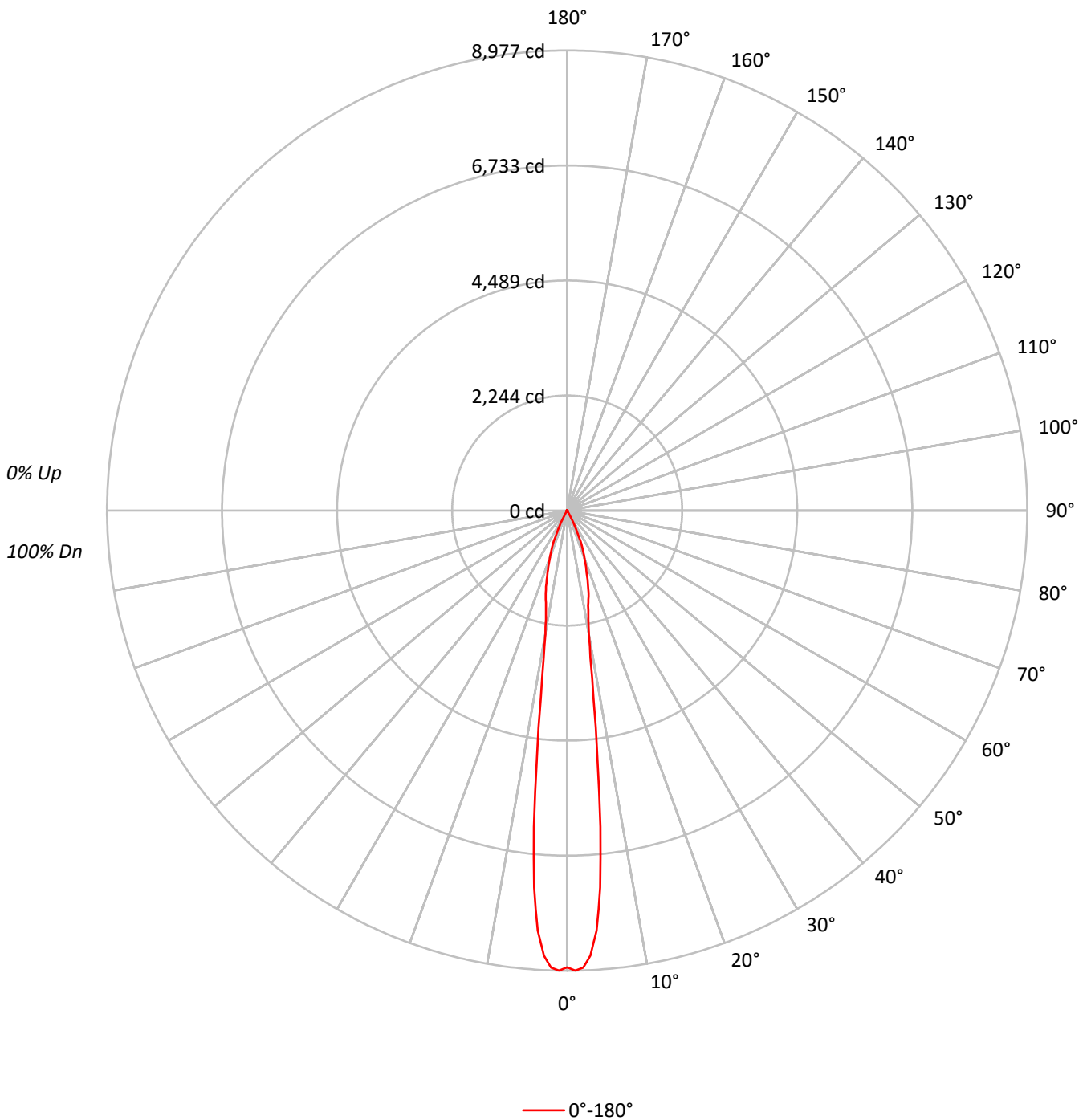
Lumens per Lamp: N/A
Luminaire Lumens: 1178.0 lumens
Efficiency: N/A
Efficacy: 63.7 lumens/watt
Spacing Criteria (0/90/45): 0.25 / 0.25 / 0.26
Luminous Opening: Circular (Dia: 0.31' x H: 0')
CIE Type: Direct

Input Watts (W): 18.5
Input Voltage (V): NR
Input Current (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		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	80		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°	1250693
5°	1039747
10°	349108
15°	233293
20°	148540
25°	69589
30°	5331
35°	1610
40°	165
45°	0
50°	0
55°	0
60°	2891
65°	299
70°	369
75°	3036
80°	0
85°	15136



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	503.2	42.7
10°-20°	438.4	37.2
20°-30°	217.0	18.4
30°-40°	5.7	0.5
40°-50°	1.6	0.1
50°-60°	4.6	0.4
60°-70°	1.8	0.2
70°-80°	2.8	0.2
80°-90°	4.6	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°	1158.6	98.4
0°-40°	1164.3	98.8
0°-60°	1170.4	99.4
0°-90°	1179.6	100.1
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1178.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8912	
5°	7381	503
15°	1606	438
25°	449	217
35°	9	6
45°	0	2
55°	0	5
65°	1	2
75°	6	3
85°	9	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	8911.9
1°	8976.8
2°	8923.2
3°	8692.0
4°	8214.4
5°	7380.6
6°	6202.6
7°	4842.3
8°	3695.4
9°	2915.2
10°	2449.8
11°	2172.5
12.5°	1899.0
15°	1605.7
17.5°	1267.2
20°	994.6
22.5°	770.9
25°	449.4
27.5°	256.6
30°	32.9
32.5°	4.7
35°	9.4
37.5°	6.6
40°	0.9
42.5°	3.8
45°	0.0
47.5°	3.8
50°	0.0
52.5°	0.0
55°	0.0
57.5°	7.5
60°	10.3
62.5°	0.0
65°	0.9
67.5°	0.9
70°	0.9
72.5°	3.8
75°	5.6
77.5°	0.9
80°	0.0
82.5°	4.7
85°	9.4
87.5°	2.8
90°	0.0

(END OF REPORT)