

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: H21252

Luminaire Tested: **PN3MR-E3AAC2**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: H21252
Test Lab:
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: IRiS
Catalog Number: PN3MR-E3AAC2
Description: IRIS 3.5 IN RECESSED ADJUSTABLE DOWNLIGHT
WITH CLEAR LENS AND BEAM AT 0 DEGREES
Light Source: 37MR16/IR/SP10 37 WATTS 900 LUMENS
Ballast/Driver: -

Summary

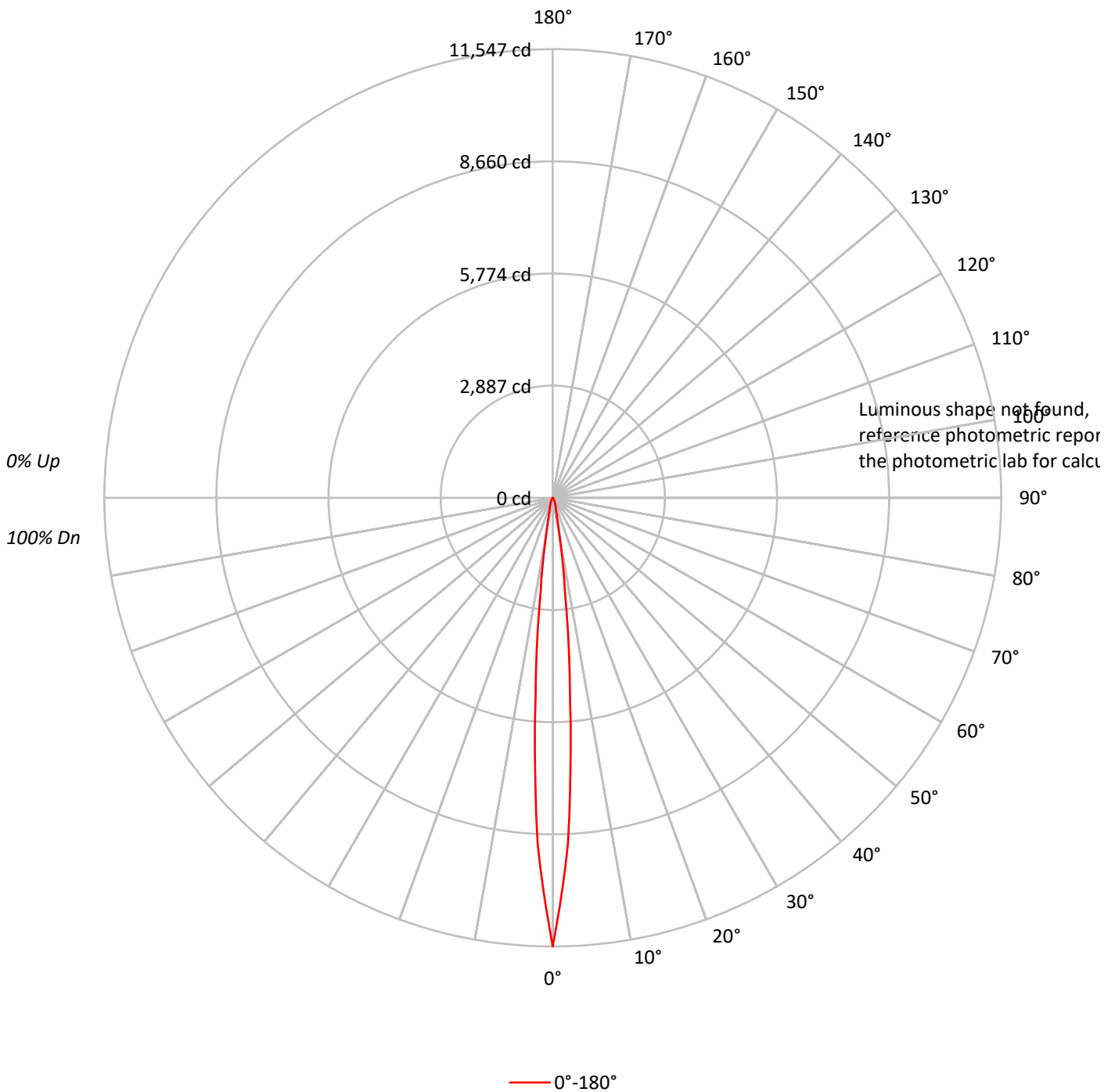
Lumens per Lamp: 900 (1 lamp)
Luminaire Lumens: 547.6 lumens
Efficiency: 60.8%
Efficacy: 14.8 lumens/watt
Spacing Criteria (0/90/45): 0.16 / 0.16 / 0.17
Luminous Opening: (L: 0 ' x W: -0.29 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 37
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	72	72	72	72	71	71	71	71	68	68	68		65	65	65		62	62	62	61
1	70	69	68	68	69	68	67	66	66	65	64		63	63	63		61	61	61	60
2	69	67	65	64	67	66	65	63	64	63	62		62	61	61		61	60	60	59
3	67	65	63	62	66	64	62	61	63	61	60		61	60	59		60	59	58	58
4	66	63	61	60	65	62	61	59	61	60	59		60	59	58		59	58	57	57
5	64	61	59	58	64	61	59	58	60	58	57		59	58	57		58	57	56	56
6	63	60	58	57	62	60	58	57	59	57	56		58	57	56		58	56	56	55
7	62	59	57	56	61	59	57	55	58	56	55		57	56	55		57	56	55	54
8	61	58	56	55	60	58	56	55	57	55	54		57	55	54		56	55	54	54
9	60	57	55	54	60	57	55	54	56	55	54		56	54	53		55	54	53	53
10	59	56	54	53	59	56	54	53	55	54	53		55	54	53		55	54	53	52

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	367.9	67.2	40.9	0°	11547	
10°-20°	108.1	19.7	12.0	5°	5083	368
20°-30°	55.2	10.1	6.1	15°	318	108
30°-40°	10.8	2.0	1.2	25°	120	55
40°-50°	5.0	0.9	0.6	35°	12	11
50°-60°	0.5	0.1	0.1	45°	7	5
60°-70°	0.0	0.0	0.0	55°	1	1
70°-80°	0.0	0.0	0.0	65°	0	0
80°-90°	0.0	0.0	0.0	75°	0	0
90°-100°	0.0	0.0	0.0	85°	0	0
100°-110°	0.0	0.0	0.0	90°	0	0
110°-120°	0.0	0.0	0.0	95°	0	0
120°-130°	0.0	0.0	0.0	105°	0	0
130°-140°	0.0	0.0	0.0	115°	0	0
140°-150°	0.0	0.0	0.0	125°	0	0
150°-160°	0.0	0.0	0.0	135°	0	0
160°-170°	0.0	0.0	0.0	145°	0	0
170°-180°	0.0	0.0	0.0	155°	0	0
0°-30°	531.2	97.0	59.0	165°	0	0
0°-40°	542.1	99.0	60.2	175°	0	0
0°-60°	547.6	100.0	60.8	180°	0	0
0°-90°	547.6	100.0	60.8			
90°-120°	0.0	0.0	0.0			
90°-150°	0.0	0.0	0.0			
90°-180°	0.0	0.0	0.0			
0°-180°	547.6	100.0	60.8			



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CANDELA DISTRIBUTION (FULL):

	0°
0°	11547
2.5°	8904
5°	5083
7.5°	2360
10°	1010
12.5°	498
15°	318
17.5°	247
20°	197
22.5°	154
25°	120
27.5°	98
30°	45
32.5°	23
35°	12
37.5°	9
40°	10
42.5°	9
45°	7
47.5°	5
50°	1
52.5°	1
55°	1
57.5°	0
60°	0
62.5°	0
65°	0
67.5°	0
70°	0
72.5°	0
75°	0
77.5°	0
80°	0
82.5°	0
85°	0
87.5°	0
90°	0
92.5°	0
95°	0
97.5°	0
100°	0
102.5°	0
105°	0
107.5°	0
110°	0



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	0
115°	0
117.5°	0
120°	0
122.5°	0
125°	0
127.5°	0
130°	0
132.5°	0
135°	0
137.5°	0
140°	0
142.5°	0
145°	0
147.5°	0
150°	0
152.5°	0
155°	0
157.5°	0
160°	0
162.5°	0
165°	0
167.5°	0
170°	0
172.5°	0
175°	0
177.5°	0
180°	0

(END OF REPORT)