

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: H21222

Luminaire Tested: **PN3MR-E3AAC2**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: H21222  
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: 45MRC16/IRC/SP8 45 WATTS 1030 LUMENS  
Ballast/Driver: -

**Summary**

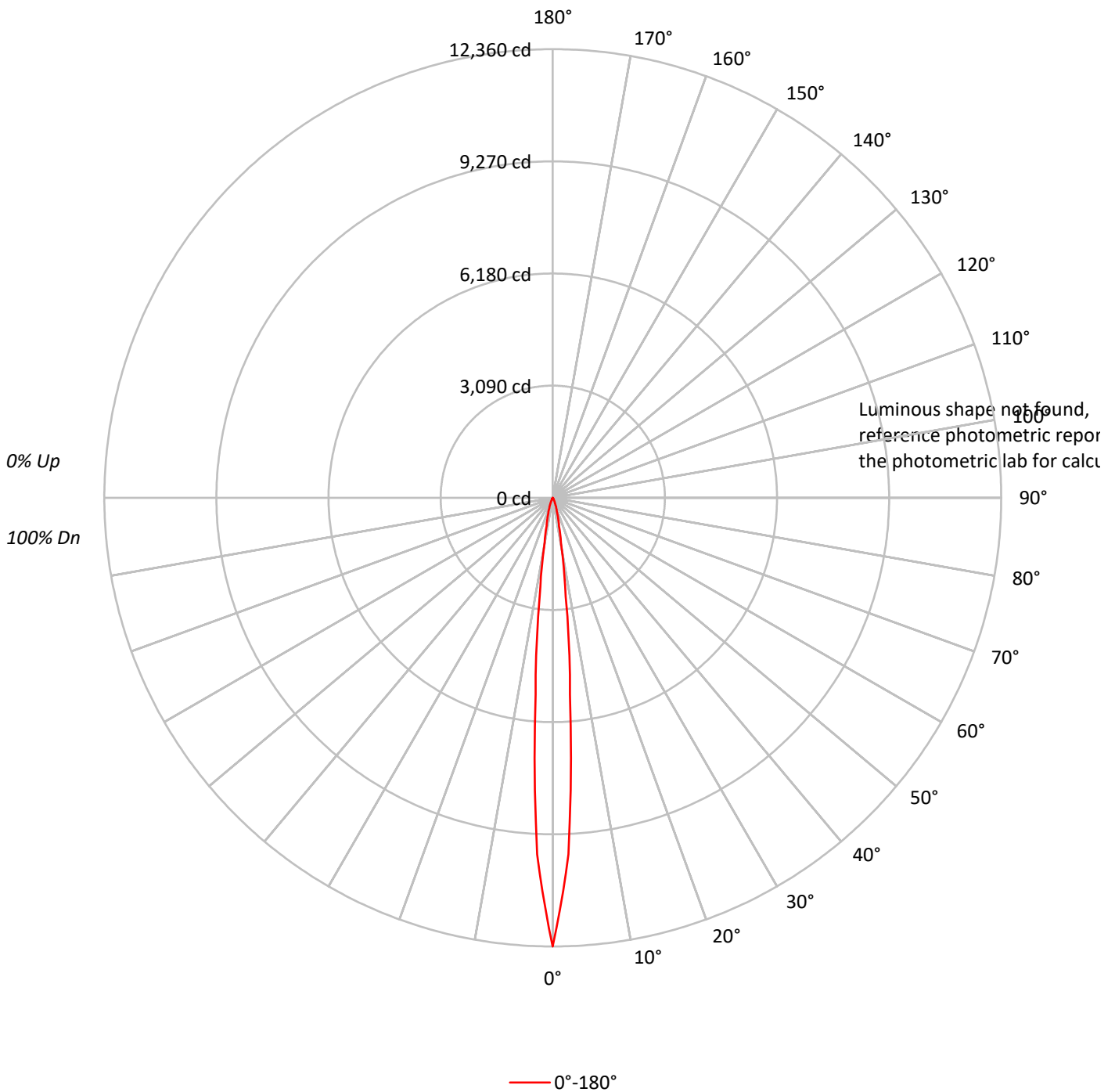
Lumens per Lamp: 1030 (1 lamp)  
Luminaire Lumens: 643.6 lumens  
Efficiency: 62.5%  
Efficacy: 14.3 lumens/watt  
Spacing Criteria (0/90/45): 0.16 / 0.16 / 0.18  
Luminous Opening: (L: 0' x W: -0.29' x H: 0'  
CIE Type: Direct

Input Watts (W): 45  
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



TEST NUMBER: H21222  
CATALOG NUMBER: PN3MR-E3AAC2

### 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	74	74	74	74	73	73	73	73	69	69	69		66	66	66		64	64	64	62
1	72	71	70	69	71	70	69	68	67	67	66		65	65	64		63	63	62	61
2	70	68	67	66	69	67	66	65	66	64	63		64	63	62		62	61	61	60
3	69	66	64	63	68	66	64	62	64	63	61		63	62	61		61	60	60	59
4	67	64	62	61	66	64	62	61	63	61	60		62	60	59		61	59	59	58
5	66	63	61	59	65	62	60	59	61	60	59		61	59	58		60	59	58	57
6	65	61	59	58	64	61	59	58	60	59	57		60	58	57		59	58	57	56
7	63	60	58	57	63	60	58	57	59	58	56		59	57	56		58	57	56	55
8	62	59	57	56	62	59	57	56	58	57	55		58	56	55		57	56	55	55
9	61	58	56	55	61	58	56	55	57	56	55		57	56	54		57	55	54	54
10	60	57	55	54	60	57	55	54	57	55	54		56	55	54		56	55	54	53

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





TEST NUMBER: H21222

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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	411.1	63.9	39.9	0°	12360	
10°-20°	162.7	25.3	15.8	5°	5439	411
20°-30°	51.0	7.9	5.0	15°	538	163
30°-40°	11.9	1.9	1.2	25°	109	51
40°-50°	3.0	0.5	0.3	35°	18	12
50°-60°	0.9	0.1	0.1	45°	3	3
60°-70°	1.0	0.2	0.1	55°	1	1
70°-80°	1.1	0.2	0.1	65°	1	1
80°-90°	1.0	0.1	0.1	75°	1	1
90°-100°	0.0	0.0	0.0	85°	1	1
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°	624.8	97.1	60.7	165°	0	0
0°-40°	636.7	98.9	61.8	175°	0	0
0°-60°	640.6	99.5	62.2	180°	0	0
0°-90°	643.6	100.0	62.5			
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°	643.6	100.0	62.5			



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	12360
2.5°	9828
5°	5439
7.5°	2749
10°	1360
12.5°	793
15°	538
17.5°	367
20°	246
22.5°	162
25°	109
27.5°	55
30°	34
32.5°	23
35°	18
37.5°	14
40°	11
42.5°	6
45°	3
47.5°	1
50°	1
52.5°	1
55°	1
57.5°	1
60°	1
62.5°	1
65°	1
67.5°	1
70°	1
72.5°	1
75°	1
77.5°	1
80°	1
82.5°	1
85°	1
87.5°	1
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)