

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: H21231

Luminaire Tested: **PN3MR-E3AAC2**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: H21231
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: Q20MR16C/VNSP7 20 WATTS 200 LUMENS
Ballast/Driver: -

Summary

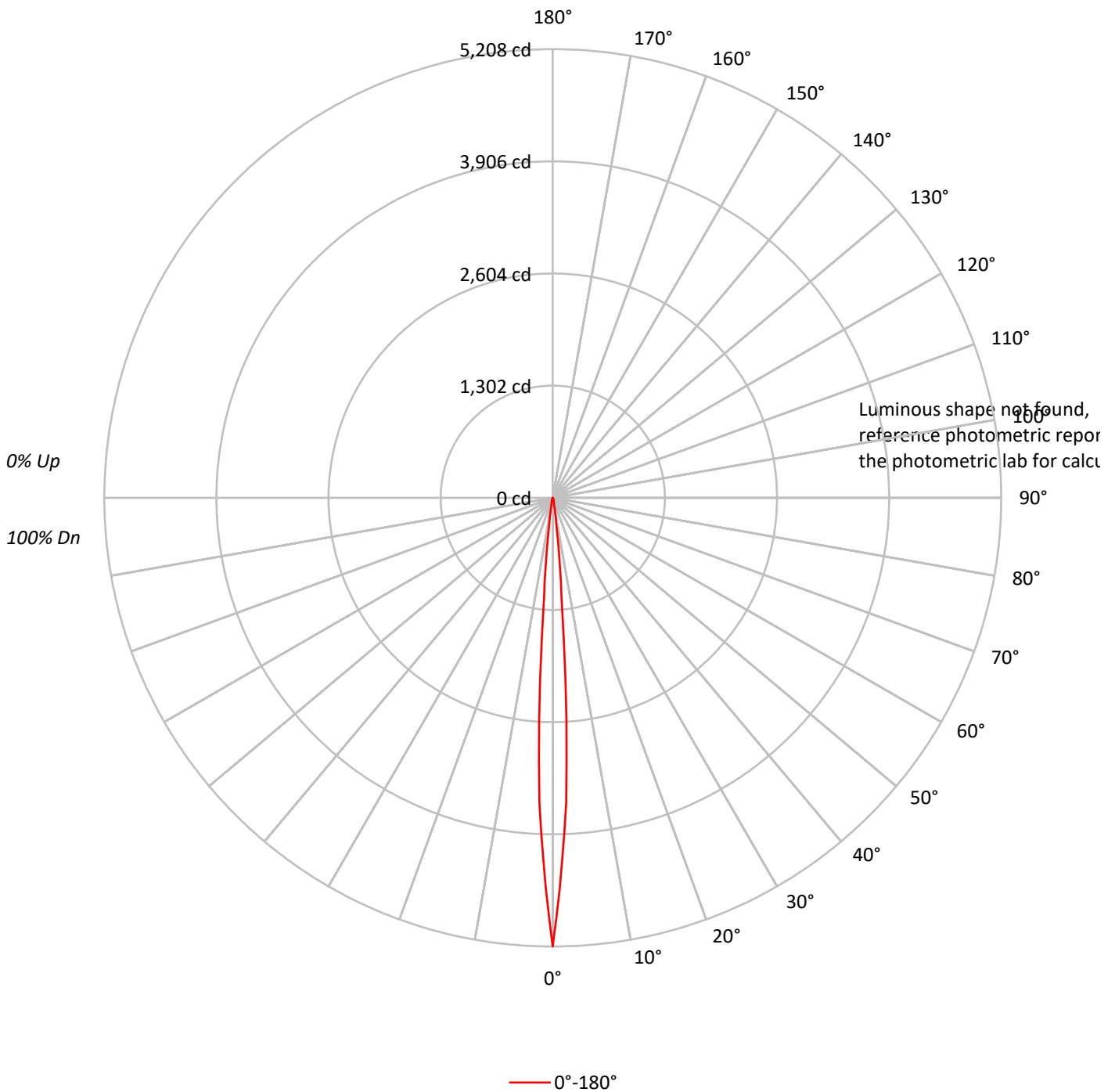
Lumens per Lamp: 200 (1 lamp)
Luminaire Lumens: 124.6 lumens
Efficiency: 62.3%
Efficacy: 6.2 lumens/watt
Spacing Criteria (0/90/45): 0.12 / 0.12 / 0.12
Luminous Opening: (L: 0 ' x W: -0.29 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 20
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	74	74	74	74	72	72	72	72	69	69	69		66	66	66		64	64	64	62
1	72	71	70	69	71	70	69	68	68	67	66		65	65	64		63	63	63	62
2	71	69	68	66	69	68	67	66	66	65	64		64	64	63		63	62	62	61
3	69	67	65	64	68	66	65	64	65	64	63		63	62	62		62	61	61	60
4	68	65	64	62	67	65	63	62	64	62	61		63	62	61		62	61	60	59
5	67	64	62	61	66	64	62	61	63	61	60		62	61	60		61	60	59	59
6	66	63	61	60	65	63	61	60	62	60	59		61	60	59		61	60	59	58
7	65	62	60	59	64	62	60	59	61	60	59		61	59	58		60	59	58	58
8	64	61	59	58	64	61	59	58	60	59	58		60	59	58		60	58	58	57
9	63	60	59	58	63	60	59	58	60	58	57		59	58	57		59	58	57	57
10	62	60	58	57	62	60	58	57	59	58	57		59	58	57		59	57	57	56

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	97.9	78.5	48.9	0°	5208	
10°-20°	14.4	11.6	7.2	5°	1142	98
20°-30°	9.0	7.2	4.5	15°	48	14
30°-40°	2.2	1.7	1.1	25°	22	9
40°-50°	1.1	0.9	0.6	35°	3	2
50°-60°	0.0	0.0	0.0	45°	2	1
60°-70°	0.0	0.0	0.0	55°	0	0
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°	121.3	97.4	60.7	165°	0	0
0°-40°	123.5	99.1	61.7	175°	0	0
0°-60°	124.6	100.0	62.3	180°	0	0
0°-90°	124.6	100.0	62.3			
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°	124.6	100.0	62.3			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5208
2.5°	3542
5°	1142
7.5°	294
10°	104
12.5°	61
15°	48
17.5°	39
20°	32
22.5°	27
25°	22
27.5°	13
30°	6
32.5°	4
35°	3
37.5°	3
40°	2
42.5°	2
45°	2
47.5°	1
50°	0
52.5°	0
55°	0
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)