

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: H21241

Luminaire Tested: **PN3MR-E3AAC2**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: H21241
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: Q50MR16C/NSP15 50 WATTS 750 LUMENS
Ballast/Driver: -

Summary

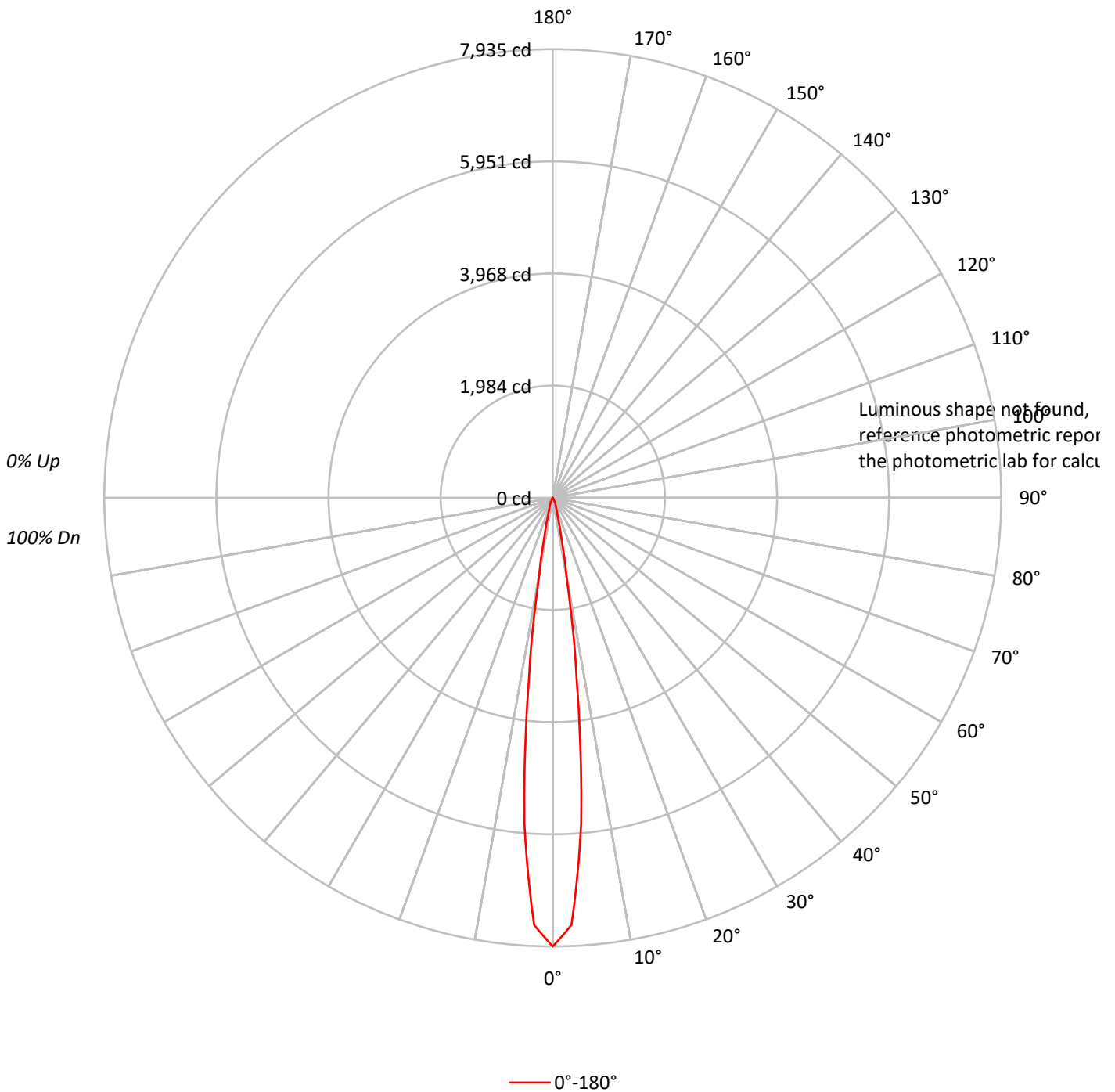
Lumens per Lamp: 750 (1 lamp)
Luminaire Lumens: 567.6 lumens
Efficiency: 75.7%
Efficacy: 11.4 lumens/watt
Spacing Criteria (0/90/45): 0.24 / 0.24 / 0.23
Luminous Opening: (L: 0' x W: -0.29' x H: 0'
CIE Type: Direct

Input Watts (W): 50
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	90	90	90	90	88	88	88	88	84	84	84		81	81	81		77	77	77	76
1	88	86	85	84	86	85	84	83	82	81	80		79	78	78		76	76	76	74
2	86	83	81	80	84	82	80	79	80	78	77		78	77	76		76	75	74	73
3	84	81	79	77	82	80	78	76	78	77	75		76	75	74		75	74	73	72
4	82	79	76	75	81	78	76	74	77	75	73		75	74	73		74	73	72	71
5	80	77	75	73	80	76	74	73	75	73	72		74	73	71		73	72	71	70
6	79	76	73	71	78	75	73	71	74	72	71		73	72	70		72	71	70	69
7	78	74	72	70	77	74	72	70	73	71	70		72	71	69		72	70	69	69
8	77	73	71	69	76	73	71	69	72	70	69		71	70	69		71	69	68	68
9	76	72	70	68	75	72	70	68	71	69	68		71	69	68		70	69	68	67
10	75	71	69	67	74	71	69	67	70	68	67		70	68	67		70	68	67	66

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	396.8	69.9	52.9	0°	7935	
10°-20°	122.3	21.5	16.3	5°	5777	397
20°-30°	37.3	6.6	5.0	15°	336	122
30°-40°	5.6	1.0	0.7	25°	85	37
40°-50°	2.0	0.3	0.3	35°	7	6
50°-60°	0.6	0.1	0.1	45°	3	2
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	0.2	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°	556.4	98.0	74.2	165°	0	0
0°-40°	562.0	99.0	74.9	175°	0	0
0°-60°	564.6	99.5	75.3	180°	0	0
0°-90°	567.6	100.0	75.7			
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°	567.6	100.0	75.7			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	7935
2.5°	7561
5°	5777
7.5°	3250
10°	1364
12.5°	640
15°	336
17.5°	208
20°	156
22.5°	124
25°	85
27.5°	42
30°	21
32.5°	12
35°	7
37.5°	5
40°	5
42.5°	4
45°	3
47.5°	1
50°	0
52.5°	0
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)