

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: H21182

Luminaire Tested: **PN3MR-E3AAC2**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: H21182
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
MAIN BEAM AT 0 DEGREES WITH CLEAR LENS
Light Source: Q50MR16/C/NFL25 50 WATTS 884 LUMENS
Ballast/Driver: -

Summary

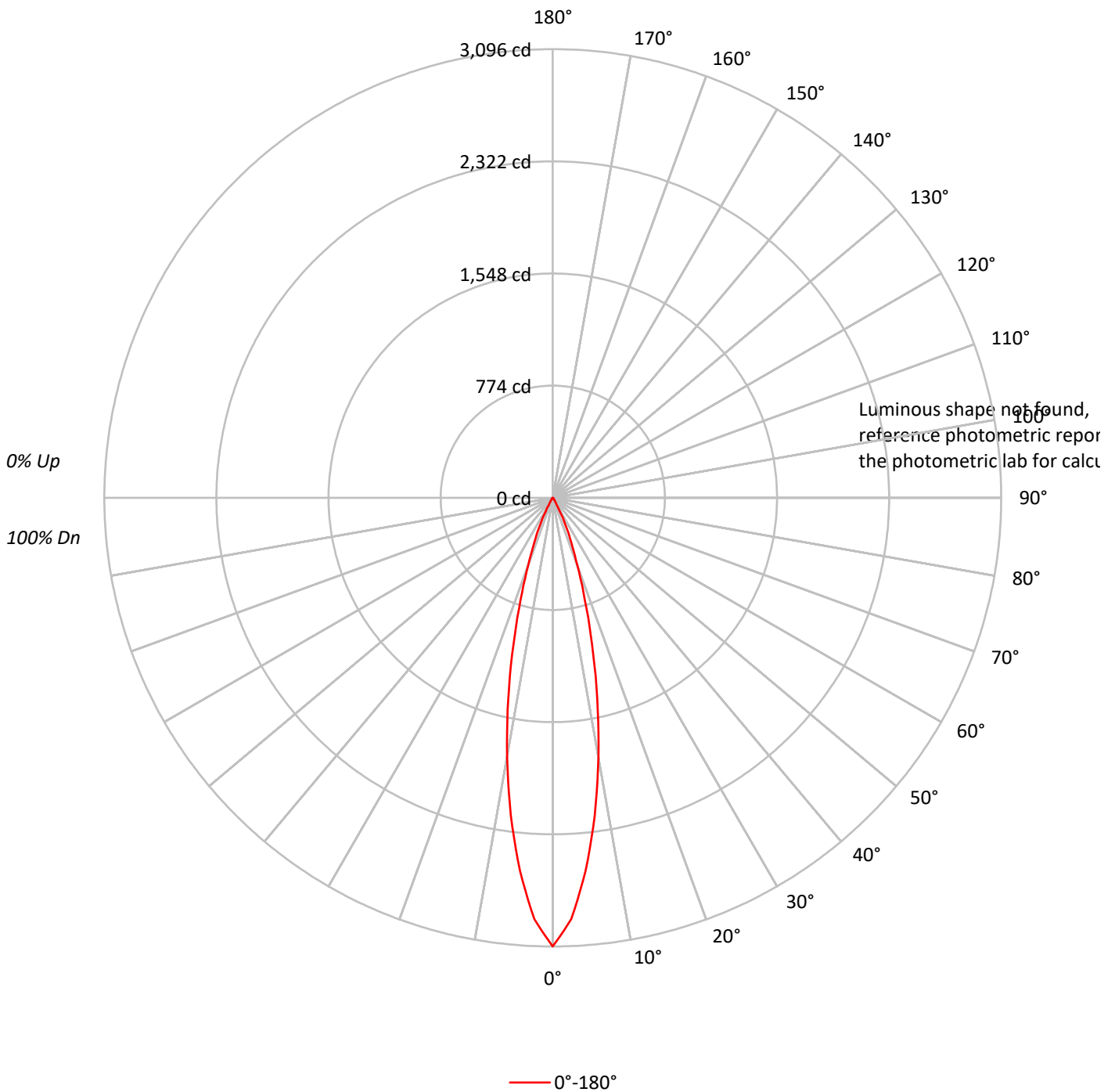
Lumens per Lamp: 884 (1 lamp)
Luminaire Lumens: 630.9 lumens
Efficiency: 71.4%
Efficacy: 11.7 lumens/watt
Spacing Criteria (0/90/45): 0.39 / 0.39 / 0.42
Luminous Opening: (L: 0' x W: -0.29' x H: 0'
CIE Type: Direct

Input Watts (W): 54
Input Voltage (V): NR
Input Current (A_{in}): 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	85	85	85	85	83	83	83	83	79	79	79		76	76	76		73	73	73	71
1	82	81	79	78	80	79	78	77	76	75	75		74	73	72		71	71	70	69
2	80	77	75	73	78	76	74	72	74	72	71		72	70	69		70	69	68	67
3	77	74	71	69	76	73	71	69	71	69	68		70	68	67		68	67	66	65
4	75	71	68	66	74	70	68	66	69	67	65		68	66	64		66	65	64	63
5	73	68	66	63	72	68	65	63	67	64	63		66	64	62		65	63	62	61
6	71	66	63	61	70	66	63	61	65	62	61		64	62	60		63	61	60	59
7	69	64	61	59	68	64	61	59	63	60	59		62	60	58		62	60	58	57
8	67	62	59	57	66	62	59	57	61	59	57		61	58	57		60	58	57	56
9	65	60	58	56	64	60	57	56	60	57	55		59	57	55		59	57	55	54
10	63	59	56	54	63	58	56	54	58	56	54		58	55	54		57	55	54	53

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	222.9	35.3	25.2	0°	3096	
10°-20°	288.9	45.8	32.7	5°	2587	223
20°-30°	101.1	16.0	11.4	15°	1044	289
30°-40°	15.1	2.4	1.7	25°	212	101
40°-50°	2.9	0.5	0.3	35°	23	15
50°-60°	0.0	0.0	0.0	45°	5	3
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°	612.9	97.1	69.3	165°	0	0
0°-40°	628.0	99.5	71.0	175°	0	0
0°-60°	630.9	100.0	71.4	180°	0	0
0°-90°	630.9	100.0	71.4			
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°	630.9	100.0	71.4			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3096
2.5°	2910
5°	2587
7.5°	2213
10°	1815
12.5°	1417
15°	1044
17.5°	736
20°	491
22.5°	331
25°	212
27.5°	111
30°	51
32.5°	30
35°	23
37.5°	16
40°	9
42.5°	5
45°	5
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)