

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: H21249

Luminaire Tested: **PN3MR-E3AAC**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: H21249
Test Lab:
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: IRiS
Catalog Number: PN3MR-E3AAC
Description: IRIS 3.5 IN RECESSED ADJUSTABLE DOWNLIGHT
WITH CLEAR LENS AND BEAM AT 0 DEGREES
WITH SOCKET ATTACHMENT ON BOTTOM
Light Source: Q50MR16C/FL40 50 WATTS 800 LUMENS
Ballast/Driver: -

Summary

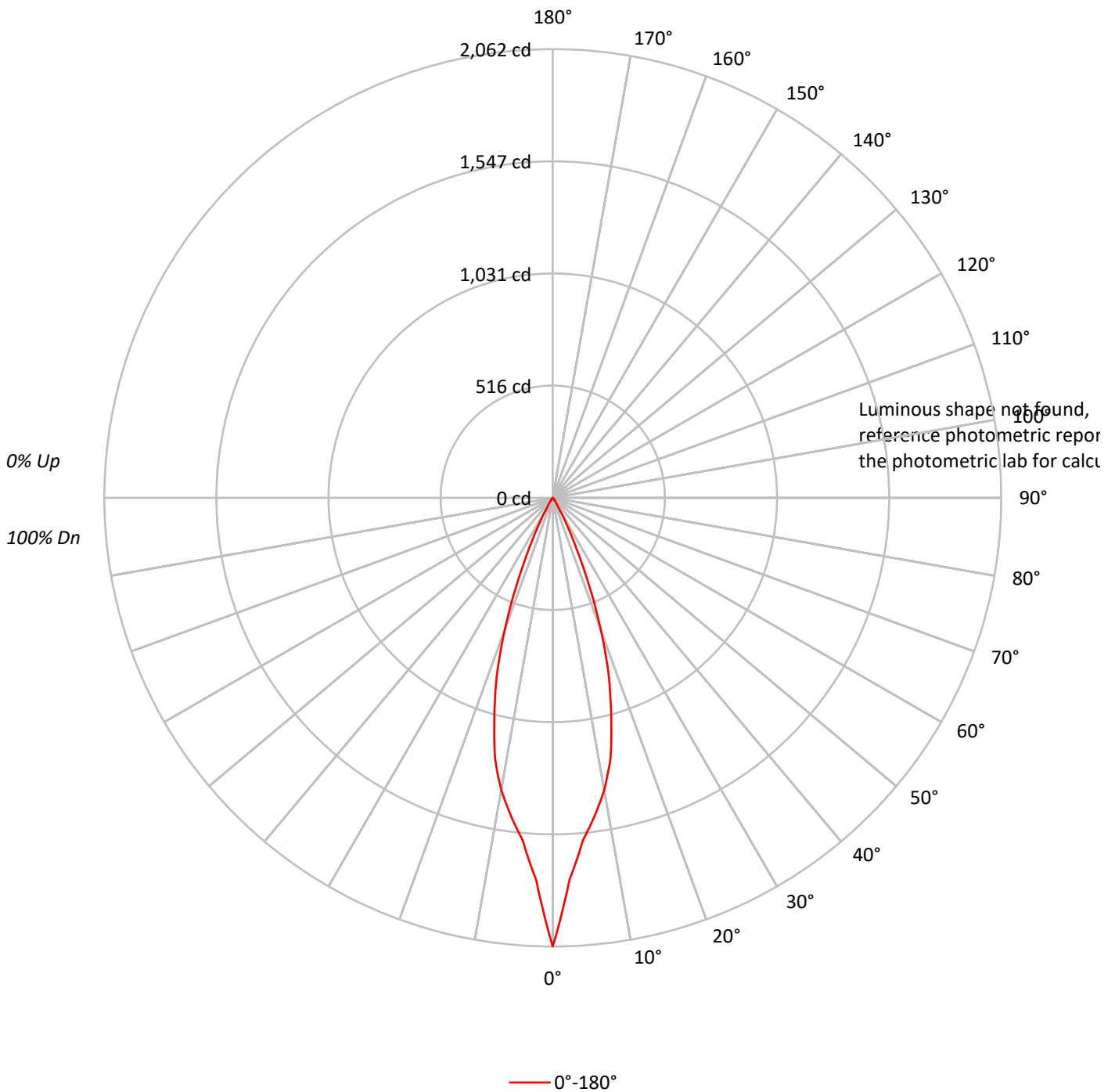
Lumens per Lamp: 800 (1 lamp)
Luminaire Lumens: 575.5 lumens
Efficiency: 71.9%
Efficacy: 11.5 lumens/watt
Spacing Criteria (0/90/45): 0.49 / 0.49 / 0.52
Luminous Opening: (L: 0 ' x W: -0.29 ' x H: 0 '
CIE Type: Direct

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



TEST NUMBER: H21249
CATALOG NUMBER: PN3MR-E3AAC

Luminous Intensity Polar Plot



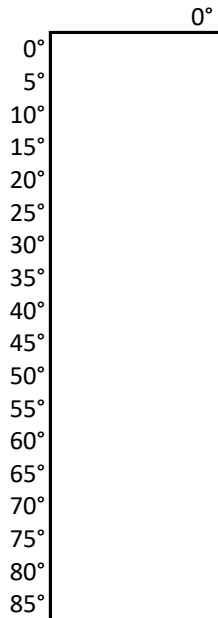


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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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	86	86	86	86	84	84	84	84	80	80	80		77	77	77		73	73	73	72
1	83	81	80	78	81	79	78	77	77	76	75		74	73	72		72	71	70	69
2	80	77	75	73	78	76	74	72	74	72	70		71	70	69		70	69	68	67
3	77	73	71	69	76	73	70	68	71	69	67		69	67	66		68	66	65	64
4	74	70	67	65	73	70	67	65	68	66	64		67	65	63		66	64	63	62
5	72	67	64	62	71	67	64	62	66	63	61		65	62	61		64	62	60	59
6	70	65	62	59	69	64	61	59	63	61	59		62	60	58		62	60	58	57
7	67	62	59	57	67	62	59	57	61	59	57		60	58	56		60	58	56	55
8	65	60	57	55	65	60	57	55	59	56	55		59	56	54		58	56	54	53
9	63	58	55	53	63	58	55	53	57	55	53		57	54	53		56	54	52	52
10	61	56	53	51	61	56	53	51	55	53	51		55	53	51		55	52	51	50

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	146.1	25.4	18.3	0°	2062	
10°-20°	281.8	49.0	35.2	5°	1582	146
20°-30°	128.9	22.4	16.1	15°	1037	282
30°-40°	14.6	2.5	1.8	25°	256	129
40°-50°	4.0	0.7	0.5	35°	18	15
50°-60°	0.1	0.0	0.0	45°	4	4
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°	556.8	96.8	69.6	165°	0	0
0°-40°	571.4	99.3	71.4	175°	0	0
0°-60°	575.5	100.0	71.9	180°	0	0
0°-90°	575.5	100.0	71.9			
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°	575.5	100.0	71.9			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2062
2.5°	1757
5°	1582
7.5°	1474
10°	1364
12.5°	1227
15°	1037
17.5°	856
20°	645
22.5°	435
25°	256
27.5°	141
30°	57
32.5°	30
35°	18
37.5°	14
40°	11
42.5°	8
45°	4
47.5°	3
50°	1
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)