

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: H21259

Luminaire Tested: **PN3MR-E3AAC**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: H21259
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
Light Source: 65MR16Q/40/FL 65 WATTS 1100 LUMENS
Ballast/Driver: -

Summary

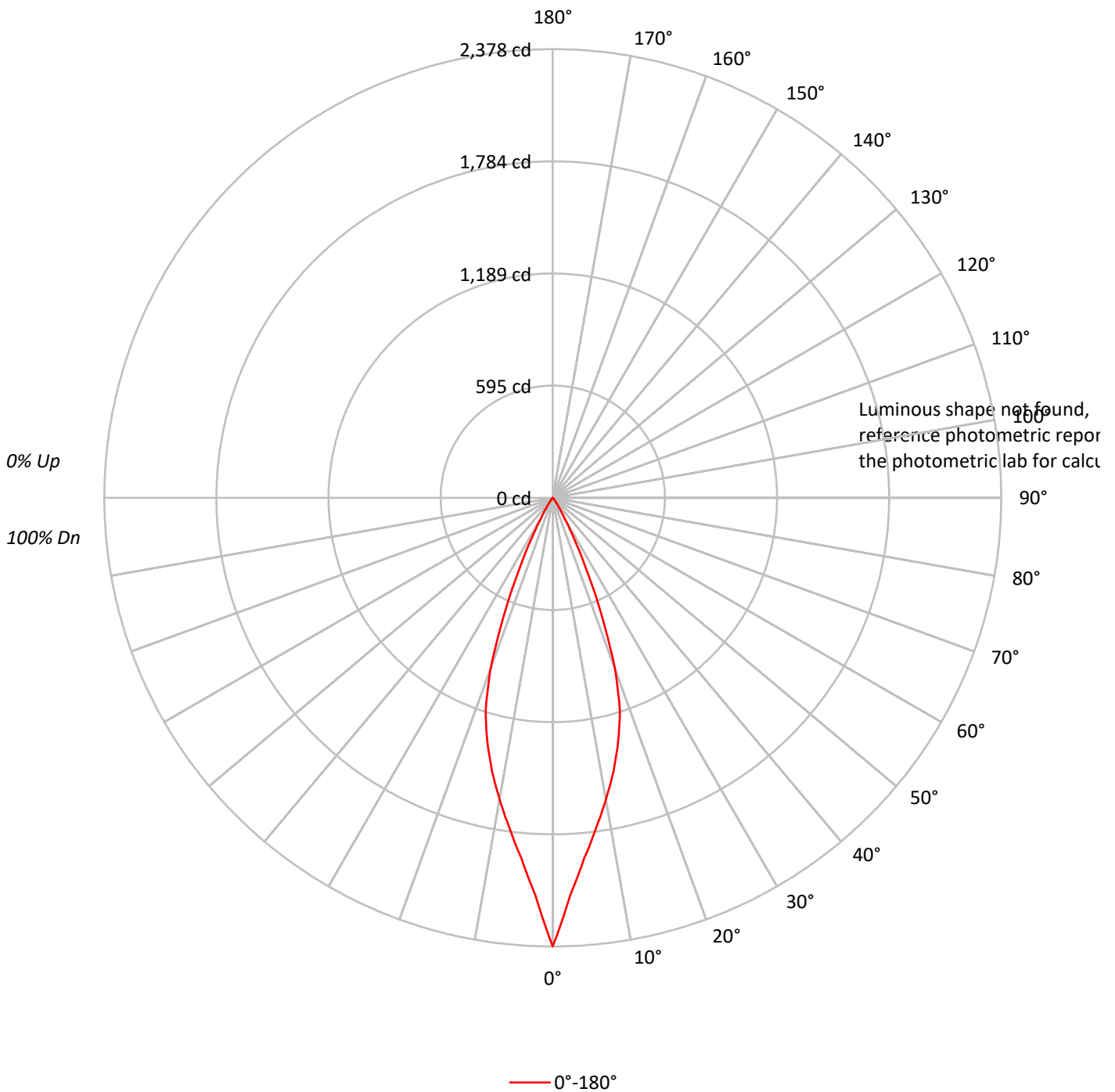
Lumens per Lamp: 1100 (1 lamp)
Luminaire Lumens: 784.7 lumens
Efficiency: 71.3%
Efficacy: 12.1 lumens/watt
Spacing Criteria (0/90/45): 0.54 / 0.54 / 0.57
Luminous Opening: (L: 0 ' x W: -0.29 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 65
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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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	85	85	85	85	83	83	83	83	79	79	79		76	76	76		73	73	73	71
1	82	80	79	77	80	79	77	76	76	75	74		73	72	72		71	70	70	68
2	79	76	74	72	77	75	73	71	73	71	69		71	69	68		69	68	67	66
3	76	72	70	67	75	71	69	67	70	68	66		68	66	65		66	65	64	63
4	73	69	66	64	72	68	65	63	67	64	63		66	63	62		64	63	61	60
5	71	66	63	60	70	65	62	60	64	62	60		63	61	59		62	60	59	58
6	68	63	60	58	67	63	60	57	62	59	57		61	59	57		60	58	56	56
7	66	61	58	55	65	60	57	55	60	57	55		59	56	55		58	56	54	53
8	64	58	55	53	63	58	55	53	57	55	53		57	54	52		56	54	52	51
9	62	56	53	51	61	56	53	51	55	53	51		55	52	50		54	52	50	50
10	60	54	51	49	59	54	51	49	54	51	49		53	51	49		53	50	49	48

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	175.0	22.3	15.9	0°	2378	
10°-20°	366.4	46.7	33.3	5°	1916	175
20°-30°	208.5	26.6	19.0	15°	1339	366
30°-40°	29.6	3.8	2.7	25°	432	209
40°-50°	4.6	0.6	0.4	35°	36	30
50°-60°	0.5	0.1	0.0	45°	5	5
60°-70°	0.0	0.0	0.0	55°	1	1
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°	750.0	95.6	68.2	165°	0	0
0°-40°	779.5	99.3	70.9	175°	0	0
0°-60°	784.7	100.0	71.3	180°	0	0
0°-90°	784.7	100.0	71.3			
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°	784.7	100.0	71.3			



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2378
2.5°	2109
5°	1916
7.5°	1764
10°	1622
12.5°	1486
15°	1339
17.5°	1183
20°	963
22.5°	685
25°	432
27.5°	243
30°	122
32.5°	76
35°	36
37.5°	18
40°	12
42.5°	9
45°	5
47.5°	4
50°	1
52.5°	1
55°	1
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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CATALOG NUMBER: PN3MR-E3AAC

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)