

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: H21080

Luminaire Tested: **N3/MR/BB (PN3MR-E3MRBB)**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: H21080  
Test Lab:  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: IRiS  
Catalog Number: N3/MR/BB (PN3MR-E3MRBB)  
Description: IRIS 3" DIA RECESSED DOWNLIGHT  
BLACK BAFFLE  
L-SF SOFT FOCUS GLASS LENS  
Light Source: 50MR16/C/FL40 50 WATTS 880 LUMENS  
MR16 CONSTANT COLOR FLOOD  
Ballast/Driver: -

**Summary**

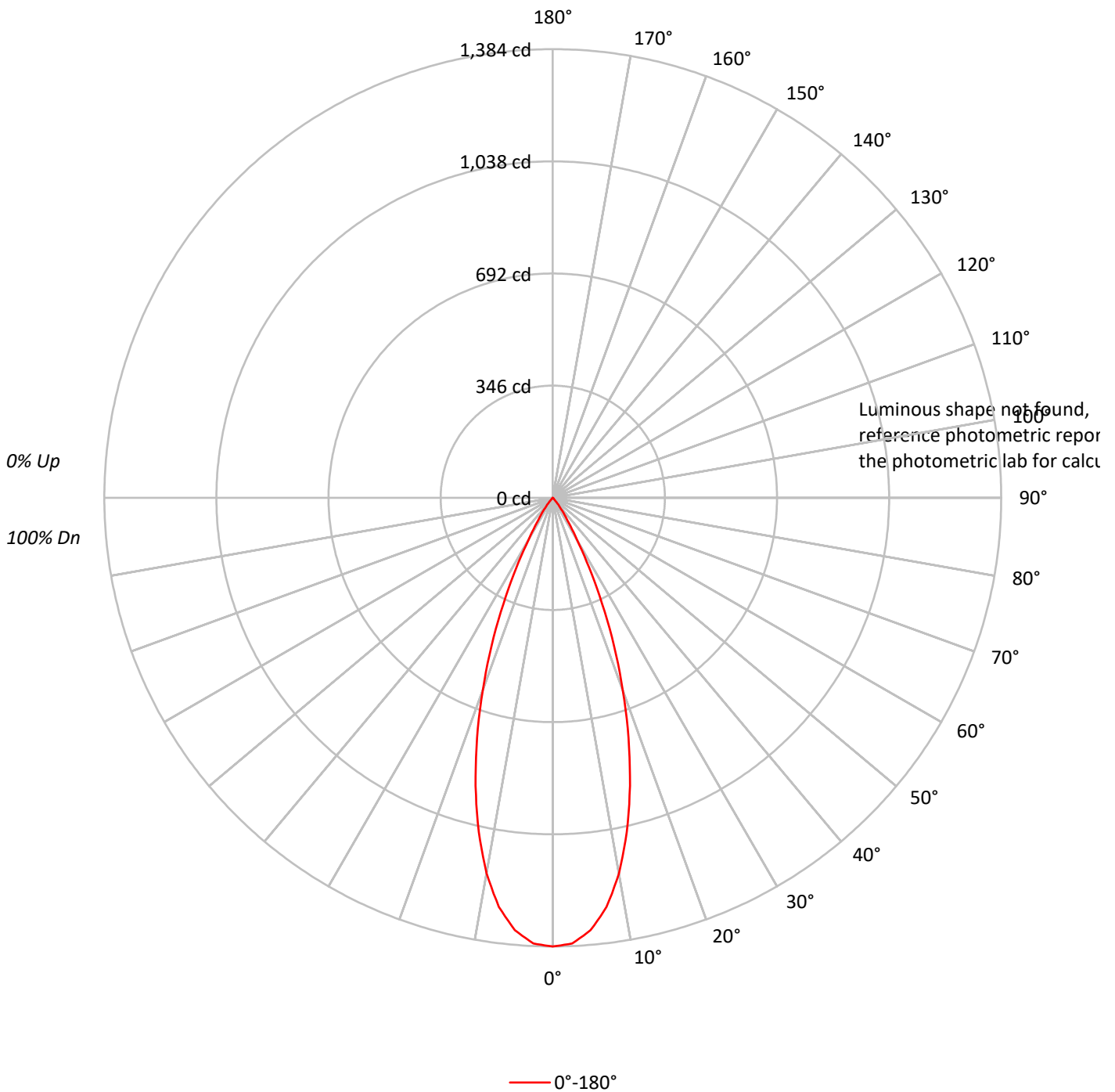
Lumens per Lamp: 880 (1 lamp)  
Luminaire Lumens: 586.1 lumens  
Efficiency: 66.6%  
Efficacy: 11.7 lumens/watt  
Spacing Criteria (0/90/45): 0.62 / 0.62 / 0.61  
Luminous Opening: (L: 0 ' x W: -0.29 ' x H: 0 '  
CIE Type: Direct

Input Watts (W): 50  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	79	79	79	79	77	77	77	77	74	74	74		71	71	71		68	68	68	67
1	76	75	73	72	75	73	72	71	71	70	69		68	67	67		66	65	65	64
2	73	71	68	67	72	70	68	66	67	66	64		66	64	63		64	63	62	61
3	71	67	64	62	69	66	64	62	64	62	61		63	61	60		62	60	59	58
4	68	64	61	59	67	63	60	58	62	59	58		60	59	57		59	58	56	55
5	65	61	58	55	64	60	57	55	59	57	55		58	56	54		57	55	54	53
6	63	58	55	53	62	58	55	53	57	54	52		56	54	52		55	53	52	51
7	61	56	53	50	60	55	52	50	55	52	50		54	51	50		53	51	49	49
8	59	53	50	48	58	53	50	48	52	50	48		52	49	48		51	49	47	47
9	57	51	48	46	56	51	48	46	50	48	46		50	47	46		49	47	46	45
10	55	49	46	44	54	49	46	44	49	46	44		48	46	44		48	45	44	43

**AVERAGE LUMINANCE (cd/sqm):**





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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	122.6	20.9	13.9	0°	1384	
10°-20°	251.2	42.9	28.5	5°	1339	123
20°-30°	165.3	28.2	18.8	15°	920	251
30°-40°	40.5	6.9	4.6	25°	360	165
40°-50°	5.1	0.9	0.6	35°	58	41
50°-60°	0.9	0.2	0.1	45°	4	5
60°-70°	0.4	0.1	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°	539.2	92.0	61.3	165°	0	0
0°-40°	579.7	98.9	65.9	175°	0	0
0°-60°	585.8	99.9	66.6	180°	0	0
0°-90°	586.1	100.0	66.6			
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°	586.1	100.0	66.6			



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1384
2.5°	1376
5°	1339
7.5°	1273
10°	1176
12.5°	1056
15°	920
17.5°	777
20°	632
22.5°	494
25°	360
27.5°	243
30°	147
32.5°	91
35°	58
37.5°	35
40°	20
42.5°	10
45°	4
47.5°	3
50°	1
52.5°	1
55°	1
57.5°	1
60°	1
62.5°	1
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)