

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: H21078

Luminaire Tested: **N3/MR/BB (PN3MR-E3BB)**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: H21078
Test Lab:
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: IRiS
Catalog Number: N3/MR/BB (PN3MR-E3BB)
Description: IRIS 3." DIA RECESSED DOWNLIGHT
BLACK BAFFLE
L-SF SOFT FOCUS GLASS LENS
Light Source: 71MR16/C/FL40 71 WATTS 1200 LUMENS
MR16 CONSTANT COLOR FLOOD
Ballast/Driver: -

Summary

Lumens per Lamp: 1200 (1 lamp)
Luminaire Lumens: 777.6 lumens
Efficiency: 64.8%
Efficacy: 11.0 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 0.71 / 0.66
Luminous Opening: (L: 0 ' x W: -0.29 ' x H: 0 '
CIE Type: Direct

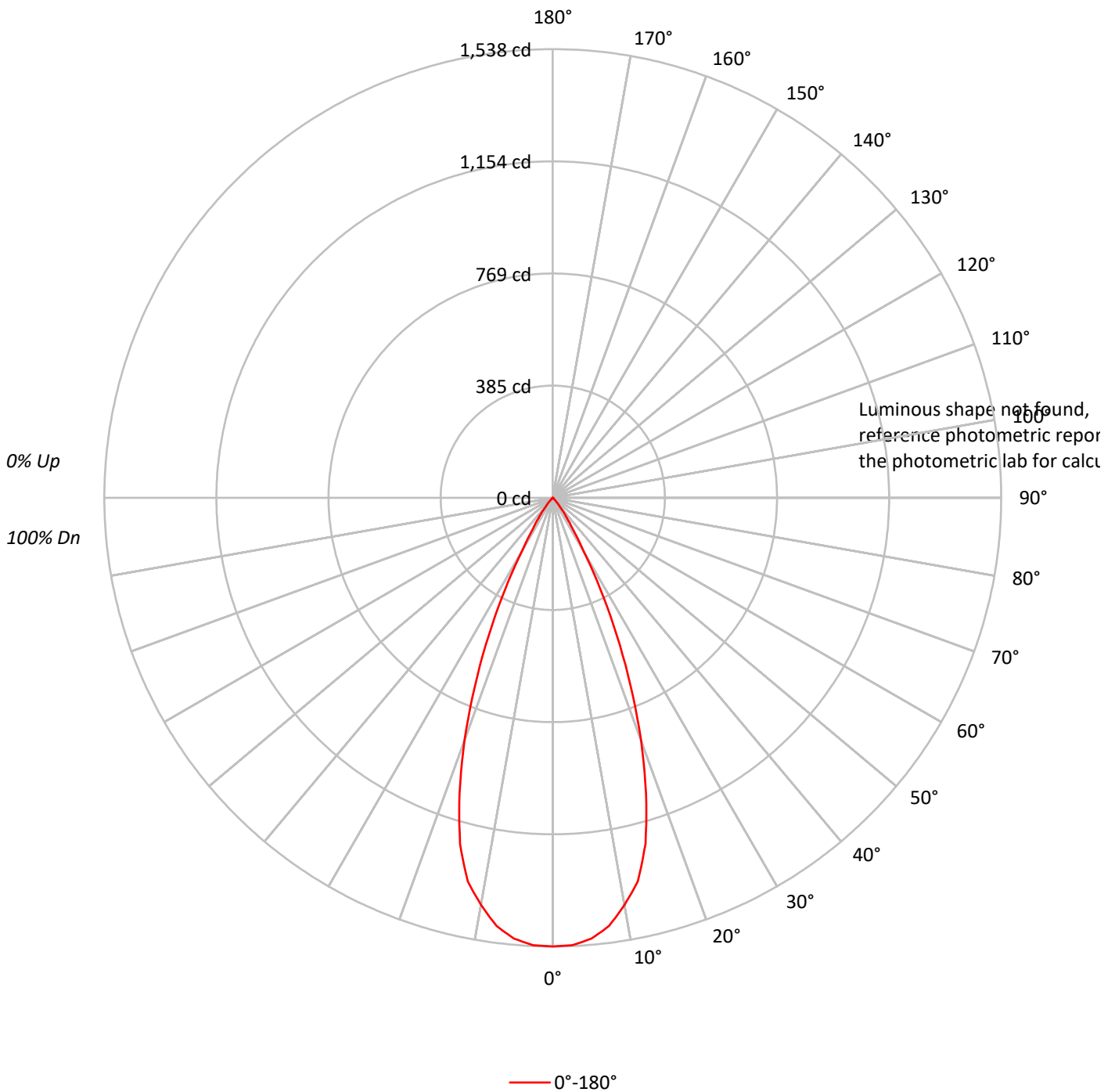
Input Watts (W): 71
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	77	77	77	77	75	75	75	75	72	72	72		69	69	69		66	66	66	65
1	74	73	71	70	73	71	70	69	69	68	67		66	65	65		64	63	63	62
2	71	69	66	64	70	67	65	64	65	64	62		64	62	61		62	61	60	59
3	68	65	62	60	67	64	62	60	62	60	59		61	59	58		59	58	57	56
4	66	62	59	56	65	61	58	56	60	57	55		58	56	55		57	56	54	53
5	63	59	56	53	62	58	55	53	57	55	53		56	54	52		55	53	52	51
6	61	56	53	50	60	56	53	50	55	52	50		54	51	50		53	51	49	49
7	58	53	50	48	58	53	50	48	52	50	48		52	49	47		51	49	47	46
8	56	51	48	46	56	51	48	46	50	47	46		50	47	45		49	47	45	44
9	54	49	46	44	54	49	46	44	48	45	44		48	45	43		47	45	43	43
10	52	47	44	42	52	47	44	42	46	44	42		46	43	42		45	43	42	41

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	141.7	18.2	11.8	0°	1538	
10°-20°	331.5	42.6	27.6	5°	1517	142
20°-30°	235.4	30.3	19.6	15°	1228	332
30°-40°	58.9	7.6	4.9	25°	517	235
40°-50°	8.0	1.0	0.7	35°	85	59
50°-60°	0.9	0.1	0.1	45°	7	8
60°-70°	1.0	0.1	0.1	55°	1	1
70°-80°	0.1	0.0	0.0	65°	1	1
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°	708.6	91.1	59.1	165°	0	0
0°-40°	767.6	98.7	64.0	175°	0	0
0°-60°	776.5	99.9	64.7	180°	0	0
0°-90°	777.6	100.0	64.8			
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°	777.6	100.0	64.8			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1538
2.5°	1535
5°	1517
7.5°	1480
10°	1417
12.5°	1347
15°	1228
17.5°	1064
20°	884
22.5°	697
25°	517
27.5°	352
30°	212
32.5°	130
35°	85
37.5°	52
40°	31
42.5°	16
45°	7
47.5°	4
50°	1
52.5°	1
55°	1
57.5°	1
60°	1
62.5°	1
65°	1
67.5°	1
70°	1
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)