

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: H21061

Luminaire Tested: **3/P20/WB (PN3120-E3P20WB)**

Issue Date: 03/03/2020

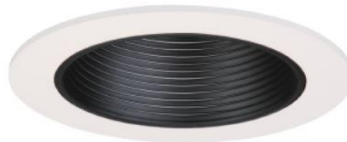
**Test Information**

Test Method: LM-79-08  
Report Number: H21061  
Test Lab:  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: IRiS  
Catalog Number: 3/P20/WB (PN3120-E3P20WB)  
Description: IRIS 3" DIA RECESSED DOWNLIGHT  
WHITE BAFFLE  
Light Source: 50R20/FL 50 WATTS 410 LUMENS  
R20 FLOOD  
Ballast/Driver: -

**Summary**

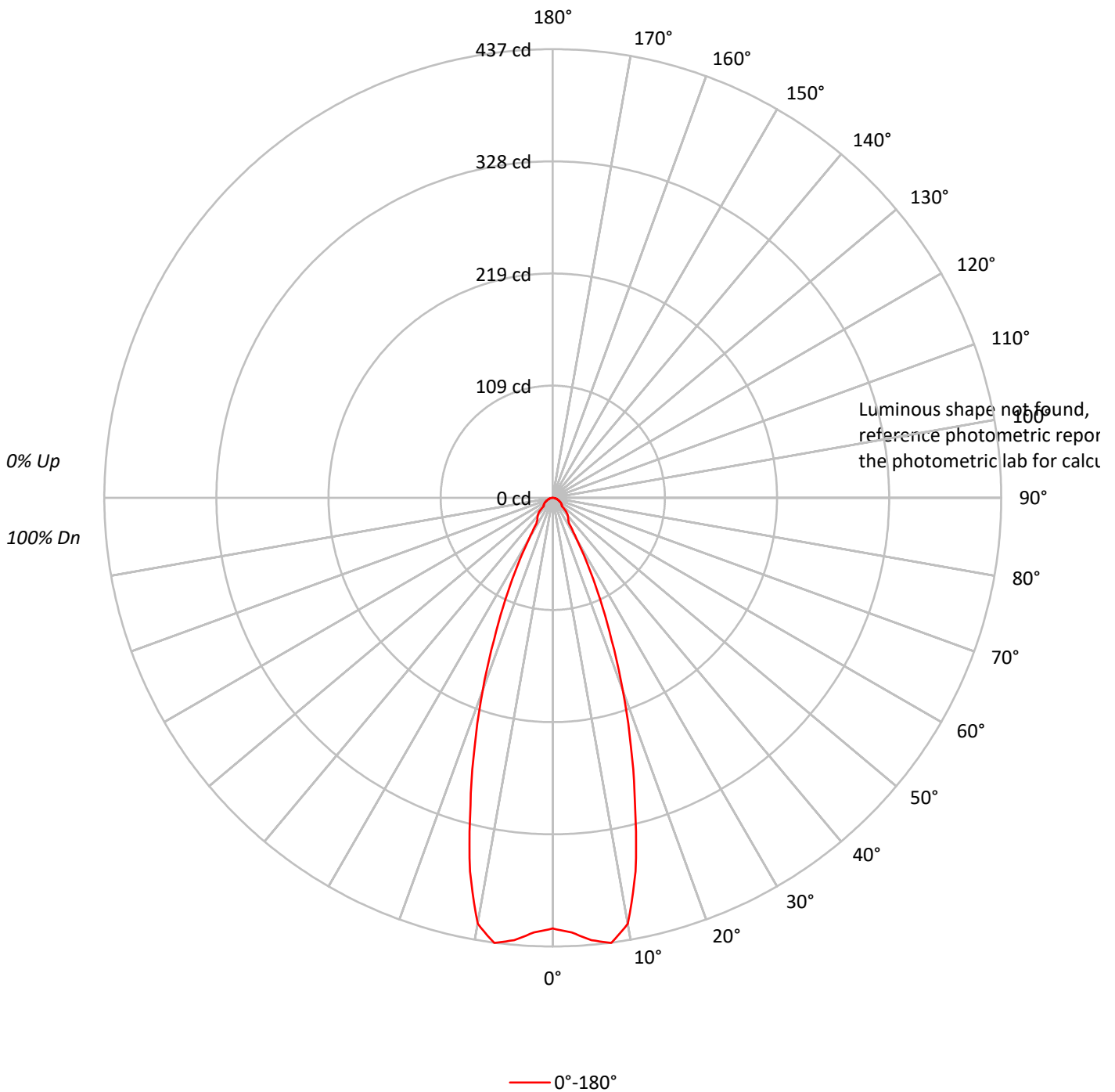
Lumens per Lamp: 410 (1 lamp)  
Luminaire Lumens: 227.8 lumens  
Efficiency: 55.6%  
Efficacy: 4.6 lumens/watt  
Spacing Criteria (0/90/45): 0.65 / 0.65 / 0.61  
Luminous Opening: (L: 0 ' x W: -0.29 ' x H: 0 '  
CIE Type: Direct

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				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	
RCR																					
0	66	66	66	66	65	65	65	65	62	62	62	59	59	59	57	57	57	56	56	56	56
1	63	61	60	59	62	60	59	58	58	57	56	56	55	54	54	53	53	52	52	52	52
2	60	57	55	53	59	56	54	52	54	53	51	53	51	50	51	50	49	48	48	48	48
3	57	53	51	48	56	53	50	48	51	49	47	50	48	46	49	47	46	45	45	45	45
4	54	50	47	45	53	50	47	45	48	46	44	47	45	44	46	44	43	42	42	42	42
5	52	47	44	42	51	47	44	42	46	43	41	45	43	41	44	42	41	40	40	40	40
6	50	45	42	39	49	44	41	39	44	41	39	43	41	39	42	40	39	38	38	38	38
7	48	43	40	37	47	42	39	37	42	39	37	41	39	37	40	38	37	36	36	36	36
8	46	41	38	35	45	40	37	35	40	37	35	39	37	35	39	37	35	34	34	34	34
9	44	39	36	34	43	39	36	34	38	35	34	38	35	34	37	35	33	33	33	33	33
10	42	37	34	32	42	37	34	32	37	34	32	36	34	32	36	34	32	31	31	31	31

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





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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	41.1	18.0	10.0	0°	420	
10°-20°	85.0	37.3	20.7	5°	432	41
20°-30°	50.6	22.2	12.4	15°	310	85
30°-40°	17.8	7.8	4.3	25°	109	51
40°-50°	12.9	5.7	3.2	35°	26	18
50°-60°	9.2	4.0	2.2	45°	17	13
60°-70°	6.6	2.9	1.6	55°	10	9
70°-80°	3.7	1.6	0.9	65°	7	7
80°-90°	0.9	0.4	0.2	75°	4	4
90°-100°	0.0	0.0	0.0	85°	1	1
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°	176.7	77.6	43.1	165°	0	0
0°-40°	194.5	85.4	47.4	175°	0	0
0°-60°	216.6	95.1	52.8	180°	0	0
0°-90°	227.8	100.0	55.6			
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°	227.8	100.0	55.6			



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	419.5
2.5°	423.7
5°	432.5
7.5°	437.3
10°	421.3
12.5°	372.8
15°	309.9
17.5°	253.1
20°	199.4
22.5°	149.8
25°	108.6
27.5°	74.7
30°	45.5
32.5°	29.7
35°	26.2
37.5°	24.5
40°	22.8
42.5°	20.9
45°	17.4
47.5°	12.2
50°	11.3
52.5°	11.1
55°	10.5
57.5°	9.5
60°	8.5
62.5°	7.6
65°	6.7
67.5°	5.8
70°	4.9
72.5°	4.1
75°	3.5
77.5°	2.8
80°	2.1
82.5°	1.4
85°	0.8
87.5°	0.2
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.0
102.5°	0.0
105°	0.0
107.5°	0.0
110°	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	0.0
115°	0.0
117.5°	0.0
120°	0.0
122.5°	0.0
125°	0.0
127.5°	0.0
130°	0.0
132.5°	0.0
135°	0.0
137.5°	0.0
140°	0.0
142.5°	0.0
145°	0.0
147.5°	0.0
150°	0.0
152.5°	0.0
155°	0.0
157.5°	0.0
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0

(END OF REPORT)