

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: H21056

Luminaire Tested: **3/P20/BB (P3120-E3P20BB)**

Issue Date: 03/03/2020

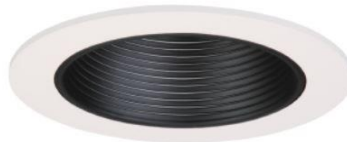
Test Information

Test Method: LM-79-08
Report Number: H21056
Test Lab:
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: IRiS
Catalog Number: 3/P20/BB (P3120-E3P20BB)
Description: IRIS 3" DIA RECESSED DOWNLIGHT
BLACK BAFFLE
Light Source: 50R20/FL 50 WATTS 410 LUMENS
R20 FLOOD
Ballast/Driver: -

Summary

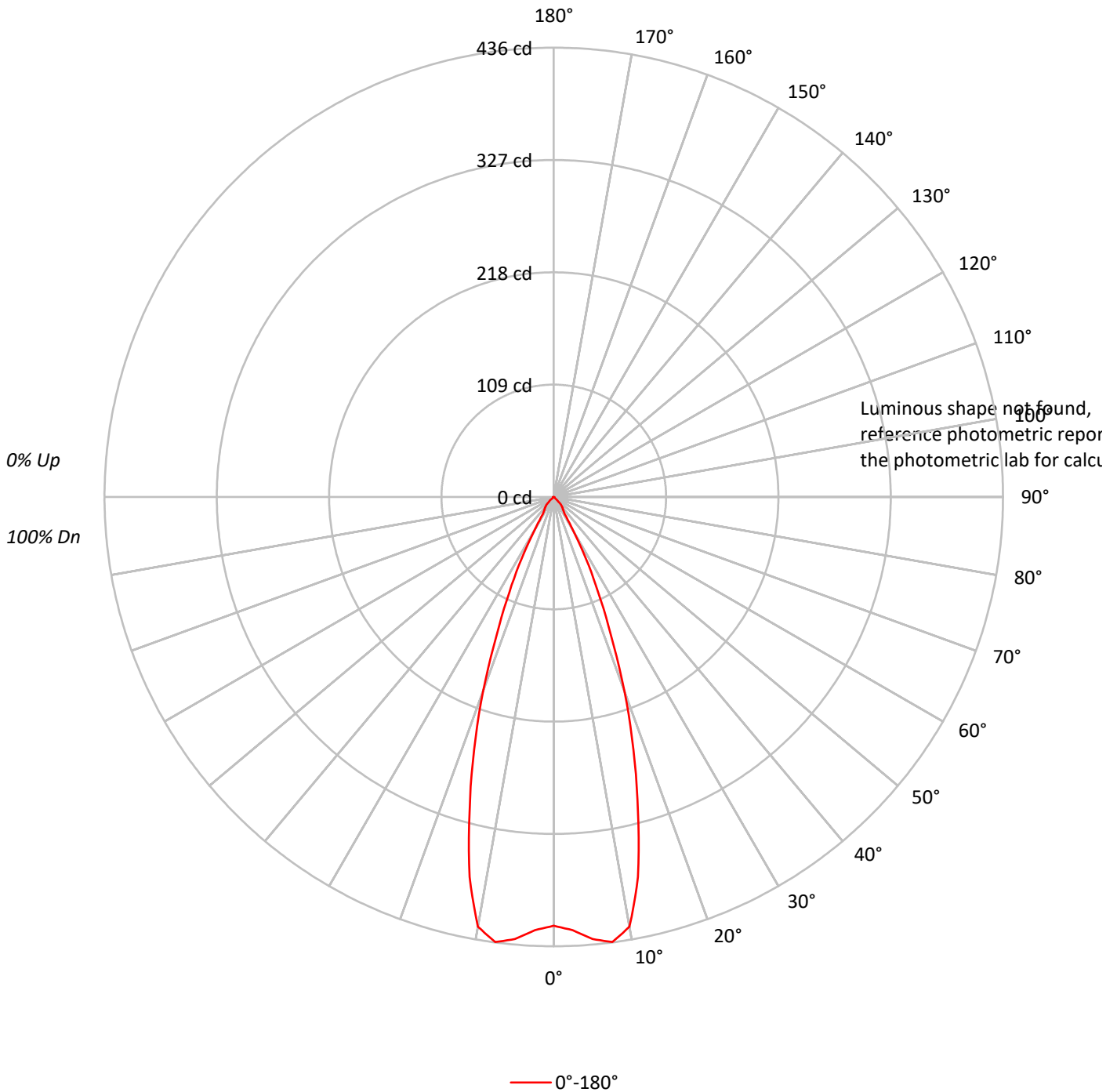
Lumens per Lamp: 410 (1 lamp)
Luminaire Lumens: 192.9 lumens
Efficiency: 47.1%
Efficacy: 3.9 lumens/watt
Spacing Criteria (0/90/45): 0.66 / 0.66 / 0.6
Luminous Opening: (L: 0 ' x W: -0.29 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 50
Input Voltage (V): NR
Input Current (A_{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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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	56	56	56	56	55	55	55	55	52	52	52		50	50	50		48	48	48	47
1	54	53	52	51	53	52	51	50	50	49	49		48	48	47		47	46	46	45
2	52	50	48	47	51	49	48	46	48	46	45		46	45	44		45	44	44	43
3	50	47	45	44	49	47	45	43	45	44	43		44	43	42		43	42	42	41
4	48	45	43	41	47	44	43	41	44	42	41		43	41	40		42	41	40	39
5	46	43	41	39	45	42	40	39	42	40	39		41	39	38		40	39	38	37
6	44	41	39	37	44	41	39	37	40	38	37		39	38	37		39	37	36	36
7	43	39	37	35	42	39	37	35	38	37	35		38	36	35		37	36	35	34
8	41	38	35	34	41	37	35	34	37	35	34		37	35	34		36	35	33	33
9	40	36	34	32	39	36	34	32	36	34	32		35	33	32		35	33	32	32
10	39	35	33	31	38	35	33	31	34	32	31		34	32	31		34	32	31	30

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	41.0	21.2	10.0	0°	416	
10°-20°	86.1	44.7	21.0	5°	431	41
20°-30°	47.8	24.8	11.7	15°	316	86
30°-40°	11.5	6.0	2.8	25°	102	48
40°-50°	5.0	2.6	1.2	35°	16	12
50°-60°	0.8	0.4	0.2	45°	7	5
60°-70°	0.5	0.3	0.1	55°	1	1
70°-80°	0.1	0.1	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°	175.0	90.7	42.7	165°	0	0
0°-40°	186.5	96.7	45.5	175°	0	0
0°-60°	192.3	99.7	46.9	180°	0	0
0°-90°	192.9	100.0	47.1			
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°	192.9	100.0	47.1			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	416.0
2.5°	420.7
5°	430.6
7.5°	435.6
10°	423.4
12.5°	377.8
15°	315.8
17.5°	257.1
20°	200.3
22.5°	144.0
25°	101.8
27.5°	67.8
30°	36.6
32.5°	19.7
35°	16.2
37.5°	14.4
40°	12.7
42.5°	10.8
45°	7.2
47.5°	1.9
50°	1.0
52.5°	0.9
55°	0.9
57.5°	0.8
60°	0.7
62.5°	0.6
65°	0.5
67.5°	0.4
70°	0.3
72.5°	0.3
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
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)