

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: H21059

Luminaire Tested: **3/P20/BB (PN3120-E3P20BB)**

Issue Date: 03/03/2020

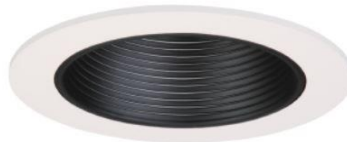
Test Information

Test Method: LM-79-08
Report Number: H21059
Test Lab:
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: IRiS
Catalog Number: 3/P20/BB (PN3120-E3P20BB)
Description: IRIS 3" DIA RECESSED DOWNLIGHT
BLACK BAFFLE
Light Source: 60PAR16/NFL 60 WATTS 650 LUMENS
PAR16 NARROW FLOOD
Ballast/Driver: -

Summary

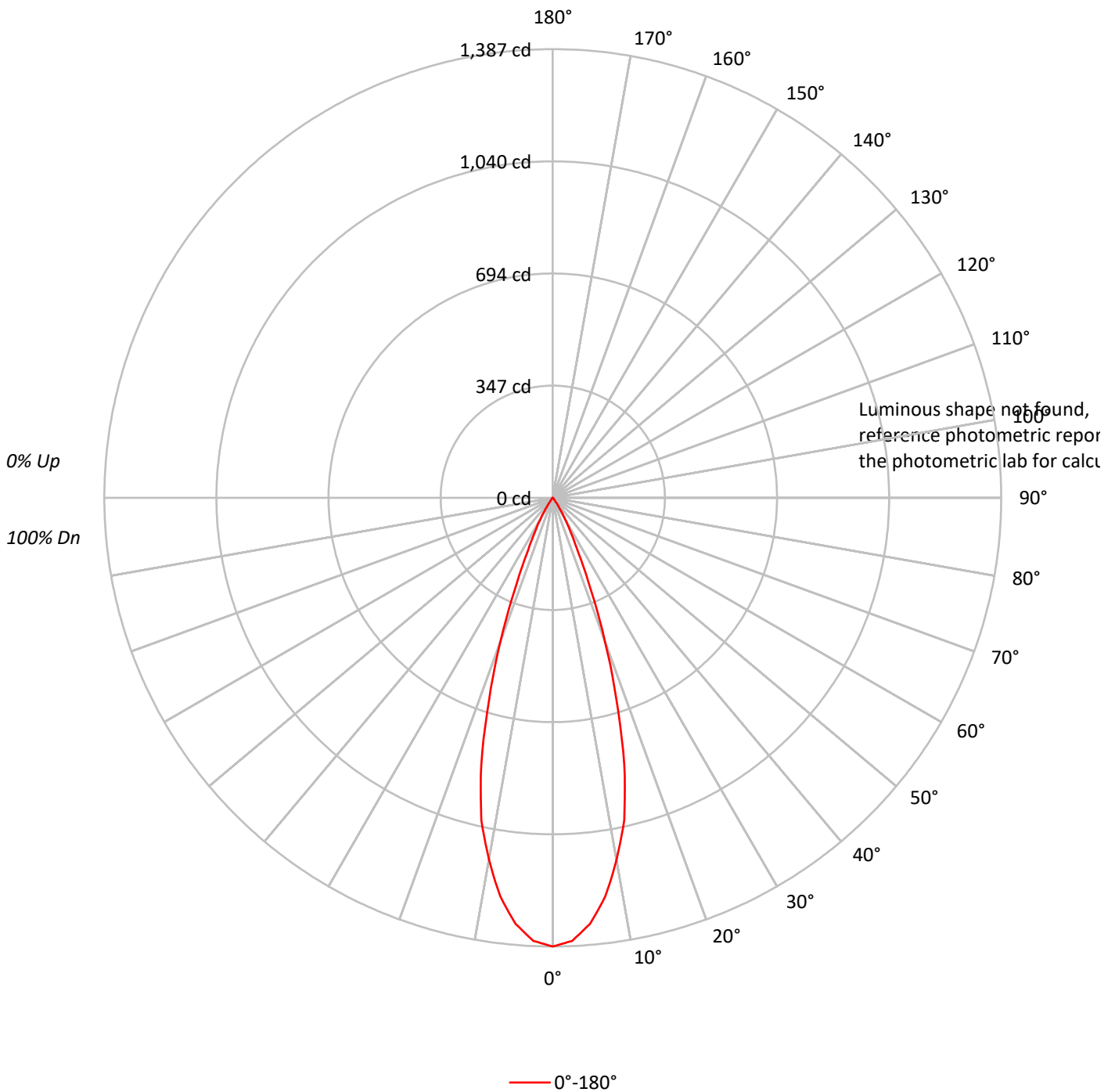
Lumens per Lamp: 650 (1 lamp)
Luminaire Lumens: 464.8 lumens
Efficiency: 71.5%
Efficacy: 7.7 lumens/watt
Spacing Criteria (0/90/45): 0.57 / 0.57 / 0.53
Luminous Opening: (L: 0 ' x W: -0.29 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 60
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	85	85	85	85	83	83	83	83	79	79	79		76	76	76		73	73	73	72
1	82	81	79	78	80	79	78	77	76	75	74		74	73	72		71	71	70	69
2	79	76	74	72	78	75	73	72	73	71	70		71	70	69		69	68	67	66
3	76	73	70	68	75	72	70	68	70	68	66		69	67	65		67	66	65	64
4	74	70	67	65	73	69	66	64	68	65	63		66	64	63		65	63	62	61
5	71	67	64	62	70	66	63	61	65	63	61		64	62	60		63	61	60	59
6	69	64	61	59	68	64	61	59	63	60	58		62	60	58		61	59	58	57
7	67	62	59	57	66	62	59	56	61	58	56		60	58	56		59	57	56	55
8	65	60	57	54	64	59	56	54	59	56	54		58	56	54		58	55	54	53
9	63	58	55	53	62	57	54	52	57	54	52		56	54	52		56	54	52	51
10	61	56	53	51	60	56	53	51	55	52	51		55	52	50		54	52	50	50

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	120.3	25.9	18.5	0°	1387	
10°-20°	226.3	48.7	34.8	5°	1322	120
20°-30°	97.6	21.0	15.0	15°	855	226
30°-40°	17.6	3.8	2.7	25°	188	98
40°-50°	1.2	0.3	0.2	35°	22	18
50°-60°	0.9	0.2	0.1	45°	1	1
60°-70°	0.9	0.2	0.1	55°	1	1
70°-80°	0.0	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°	444.3	95.6	68.3	165°	0	0
0°-40°	461.8	99.4	71.0	175°	0	0
0°-60°	463.9	99.8	71.4	180°	0	0
0°-90°	464.8	100.0	71.5			
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°	464.8	100.0	71.5			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1387
2.5°	1371
5°	1322
7.5°	1243
10°	1136
12.5°	1020
15°	855
17.5°	656
20°	471
22.5°	307
25°	188
27.5°	120
30°	77
32.5°	46
35°	22
37.5°	9
40°	4
42.5°	2
45°	1
47.5°	1
50°	1
52.5°	1
55°	1
57.5°	1
60°	1
62.5°	1
65°	1
67.5°	1
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)