

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: H21062

Luminaire Tested: **3/P20/WB (P3120-E3P20WB)**

Issue Date: 03/03/2020

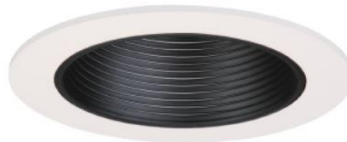
Test Information

Test Method: LM-79-08
Report Number: H21062
Test Lab:
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: IRiS
Catalog Number: 3/P20/WB (P3120-E3P20WB)
Description: IRIS 3" DIA RECESSED DOWNLIGHT
WHITE BAFFLE
Light Source: 50PAR20/NFL 50 WATTS 560 LUMENS
PAR20 NARROW FLOOD HALOGEN
Ballast/Driver: -

Summary

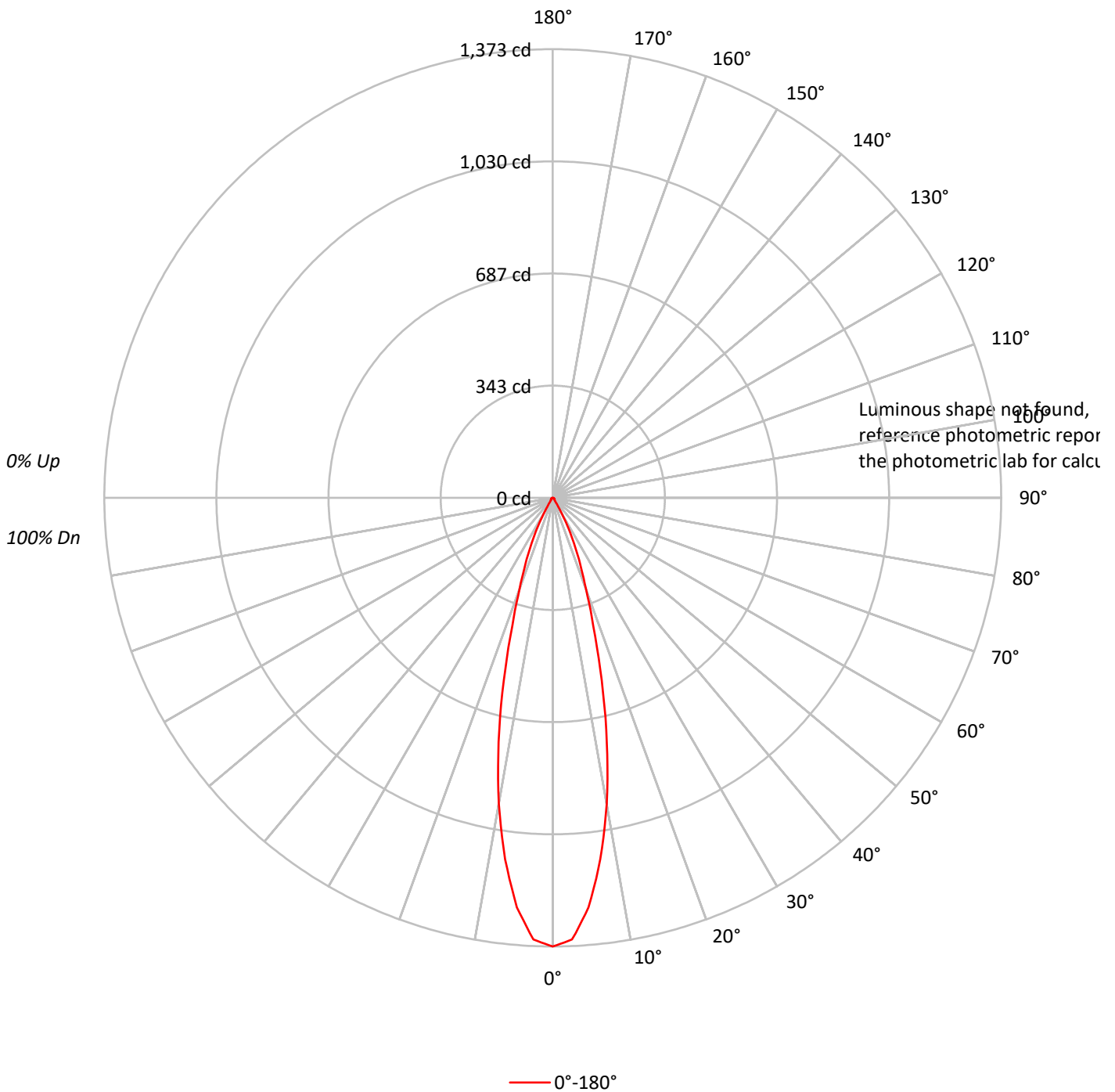
Lumens per Lamp: 560 (1 lamp)
Luminaire Lumens: 369.4 lumens
Efficiency: 66.0%
Efficacy: 7.4 lumens/watt
Spacing Criteria (0/90/45): 0.46 / 0.46 / 0.45
Luminous Opening: (L: 0 ' x W: -0.29 ' x H: 0 '
CIE Type: Direct

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	79	79	79	79	77	77	77	77	73	73	73		70	70	70		67	67	67	66
1	75	74	73	71	74	73	71	70	70	69	68		67	67	66		65	65	64	63
2	73	70	68	66	71	69	67	65	67	65	64		65	64	62		63	62	61	60
3	70	67	64	62	69	66	63	61	64	62	60		63	61	59		61	60	59	58
4	68	64	61	59	66	63	60	58	62	59	58		60	58	57		59	58	56	55
5	65	61	58	56	64	60	58	56	59	57	55		58	56	55		57	56	54	53
6	63	59	56	53	62	58	55	53	57	55	53		56	54	53		56	54	52	51
7	61	57	53	51	60	56	53	51	55	53	51		55	52	51		54	52	50	50
8	59	55	52	50	59	54	51	49	54	51	49		53	51	49		52	50	49	48
9	58	53	50	48	57	52	50	48	52	49	48		51	49	47		51	49	47	47
10	56	51	48	46	55	51	48	46	50	48	46		50	48	46		50	47	46	45

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	110.1	29.8	19.7	0°	1373	
10°-20°	158.7	43.0	28.3	5°	1258	110
20°-30°	70.6	19.1	12.6	15°	578	159
30°-40°	11.4	3.1	2.0	25°	153	71
40°-50°	5.5	1.5	1.0	35°	14	11
50°-60°	5.8	1.6	1.0	45°	7	6
60°-70°	4.2	1.1	0.8	55°	7	6
70°-80°	2.4	0.6	0.4	65°	4	4
80°-90°	0.7	0.2	0.1	75°	2	2
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°	339.4	91.9	60.6	165°	0	0
0°-40°	350.8	95.0	62.6	175°	0	0
0°-60°	362.1	98.0	64.7	180°	0	0
0°-90°	369.4	100.0	66.0			
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°	369.4	100.0	66.0			



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1373
2.5°	1353
5°	1258
7.5°	1116
10°	951
12.5°	765
15°	578
17.5°	411
20°	296
22.5°	217
25°	153
27.5°	97
30°	48
32.5°	23
35°	14
37.5°	10
40°	8
42.5°	7
45°	7
47.5°	7
50°	7
52.5°	7
55°	7
57.5°	6
60°	5
62.5°	5
65°	4
67.5°	4
70°	3
72.5°	3
75°	2
77.5°	2
80°	1
82.5°	1
85°	1
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)