

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: H21060

Luminaire Tested: **P3120-E3P20WB**

Issue Date: 03/03/2020

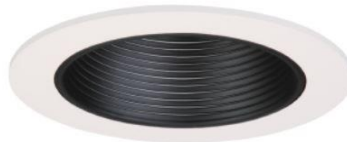
Test Information

Test Method: LM-79-08
Report Number: H21060
Test Lab:
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: IRiS
Catalog Number: P3120-E3P20WB
Description: IRIS 3" DIA RECESSED DOWNLIGHT
WHITE BAFFLE
Light Source: 60PAR16/NFL 60 WATTS 650 LUMENS
PAR16 NARROW FLOOD
Ballast/Driver: -

Summary

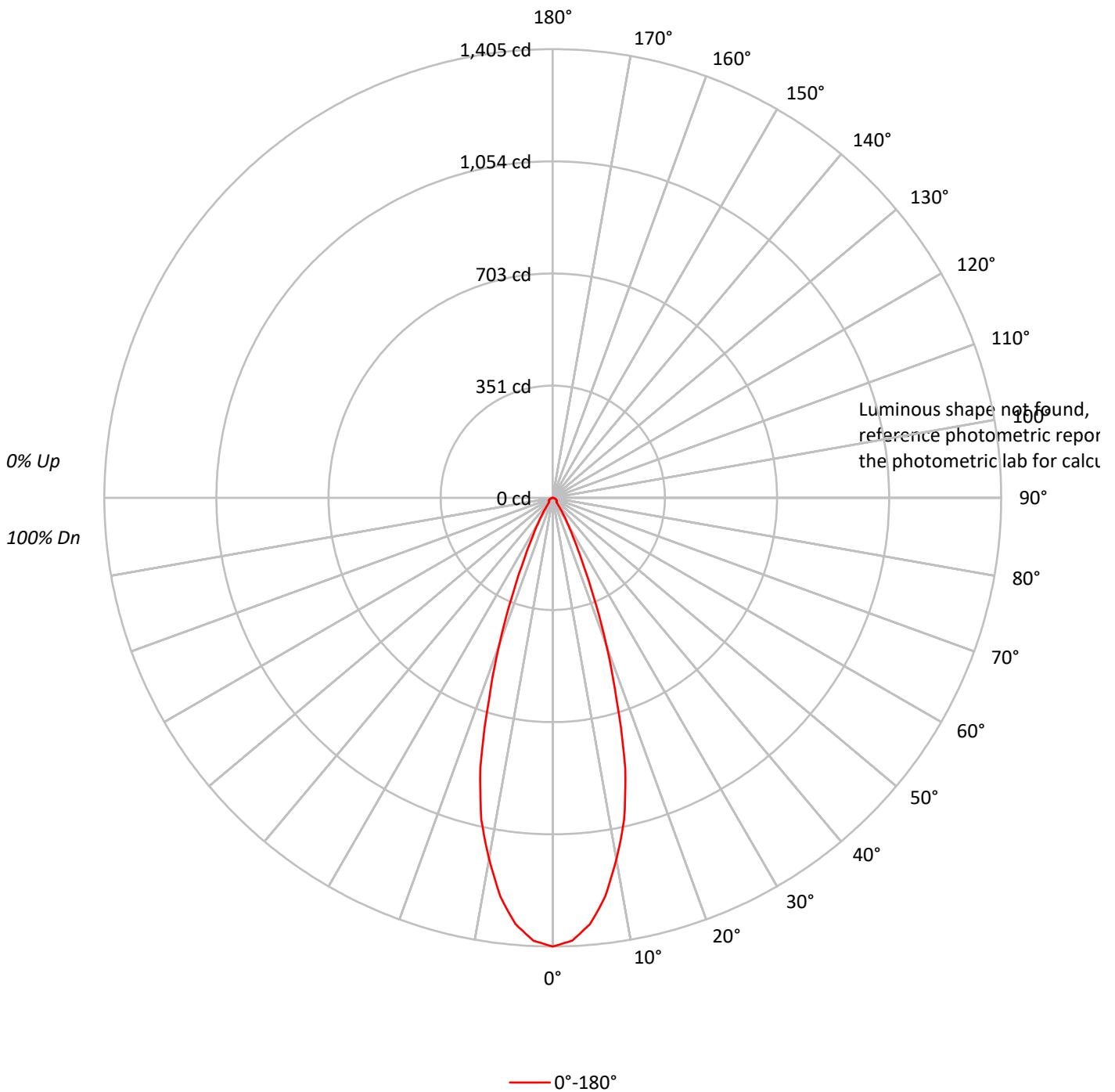
Lumens per Lamp: 650 (1 lamp)
Luminaire Lumens: 529.6 lumens
Efficiency: 81.5%
Efficacy: 8.8 lumens/watt
Spacing Criteria (0/90/45): 0.57 / 0.57 / 0.54
Luminous Opening: (L: 0 ' x W: -0.29 ' x H: 0 '
CIE Type: Direct

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	97	97	97	97	95	95	95	95	91	91	91		87	87	87		83	83	83	81
1	93	91	89	87	91	89	87	86	86	84	83		83	82	81		80	79	78	77
2	89	85	82	80	87	84	81	79	81	79	77		79	77	76		77	75	74	73
3	85	81	77	74	84	80	76	74	77	75	72		76	73	71		74	72	70	69
4	82	77	73	70	80	76	72	69	74	71	68		72	70	68		71	69	67	66
5	79	73	69	66	78	72	68	66	71	68	65		70	67	64		68	66	64	63
6	76	70	66	63	75	69	65	62	68	65	62		67	64	62		66	63	61	60
7	73	67	63	60	72	66	62	60	65	62	59		64	61	59		64	61	59	58
8	71	64	60	57	70	64	60	57	63	59	57		62	59	57		61	59	57	56
9	68	62	58	55	67	61	58	55	61	57	55		60	57	55		59	57	54	54
10	66	60	56	53	65	59	55	53	59	55	53		58	55	53		58	55	53	52

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	121.8	23.0	18.7	0°	1405	
10°-20°	230.8	43.6	35.5	5°	1340	122
20°-30°	106.7	20.2	16.4	15°	878	231
30°-40°	27.4	5.2	4.2	25°	210	107
40°-50°	12.8	2.4	2.0	35°	39	27
50°-60°	13.2	2.5	2.0	45°	16	13
60°-70°	9.9	1.9	1.5	55°	15	13
70°-80°	5.4	1.0	0.8	65°	10	10
80°-90°	1.5	0.3	0.2	75°	5	5
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°	459.3	86.7	70.7	165°	0	0
0°-40°	486.7	91.9	74.9	175°	0	0
0°-60°	512.8	96.8	78.9	180°	0	0
0°-90°	529.6	100.0	81.5			
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°	529.6	100.0	81.5			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1405
2.5°	1388
5°	1340
7.5°	1259
10°	1148
12.5°	1033
15°	878
17.5°	667
20°	489
22.5°	331
25°	210
27.5°	137
30°	92
32.5°	62
35°	39
37.5°	24
40°	19
42.5°	17
45°	16
47.5°	16
50°	16
52.5°	16
55°	15
57.5°	14
60°	12
62.5°	11
65°	10
67.5°	9
70°	8
72.5°	6
75°	5
77.5°	4
80°	3
82.5°	2
85°	1
87.5°	1
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)