

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: H21032

Luminaire Tested: **PN3120-E3P20C**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: H21032
Test Lab:
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: IRiS
Catalog Number: PN3120-E3P20C
Description: IRIS 3" DIA RECESSED DOWNLIGHT
SPECULAR REFLECTOR
Light Source: 50PAR20NFL 50 WATTS 560 LUMENS
PAR20 NARROW FLOOD
Ballast/Driver: -

Summary

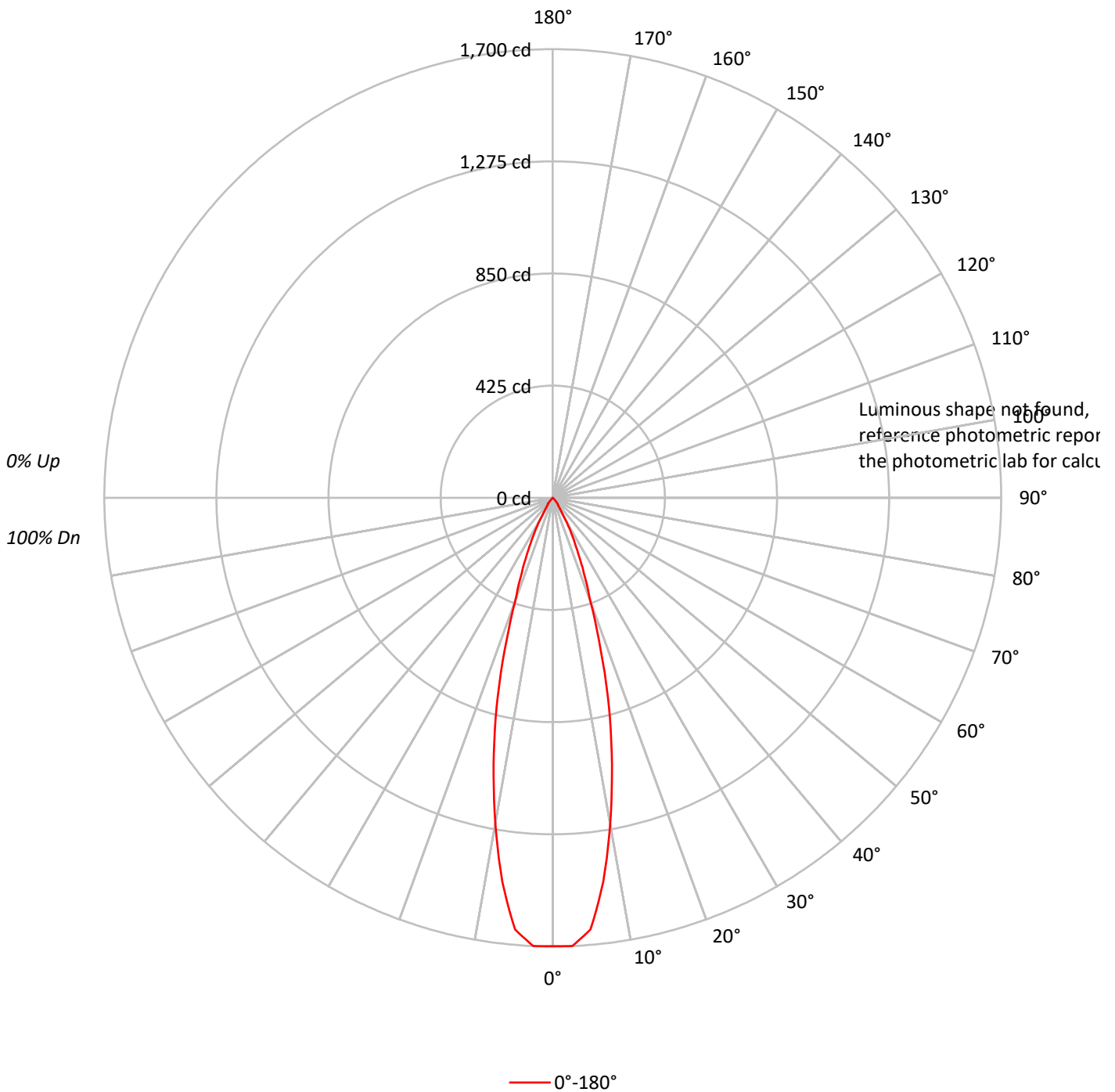
Lumens per Lamp: 560 (1 lamp)
Luminaire Lumens: 502.7 lumens
Efficiency: 89.8%
Efficacy: 10.1 lumens/watt
Spacing Criteria (0/90/45): 0.49 / 0.49 / 0.48
Luminous Opening: (L: 0 ' x W: -0.29 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 50
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	107	107	107	107	104	104	104	104	100	100	100		95	95	95		92	92	92	90
1	103	101	99	98	101	99	98	96	96	94	93		92	91	90		89	89	88	86
2	99	96	93	91	98	95	92	90	92	90	88		89	87	86		87	85	84	83
3	96	92	88	85	94	90	87	85	88	86	83		86	84	82		84	82	81	80
4	93	88	84	81	91	87	83	81	85	82	80		83	81	79		82	80	78	77
5	90	84	80	77	88	83	80	77	82	79	76		80	78	76		79	77	75	74
6	87	81	77	74	86	80	76	74	79	76	73		78	75	73		77	74	72	71
7	84	78	74	71	83	77	73	71	76	73	70		75	72	70		74	72	70	69
8	81	75	71	68	80	75	71	68	74	70	68		73	70	68		72	69	67	66
9	79	72	69	66	78	72	68	66	71	68	66		71	68	65		70	67	65	64
10	77	70	66	64	76	70	66	64	69	66	63		69	65	63		68	65	63	62

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	143.2	28.5	25.6	0°	1699	
10°-20°	221.4	44.0	39.5	5°	1642	143
20°-30°	104.0	20.7	18.6	15°	822	221
30°-40°	28.8	5.7	5.1	25°	218	104
40°-50°	5.2	1.0	0.9	35°	37	29
50°-60°	0.0	0.0	0.0	45°	0	5
60°-70°	0.0	0.0	0.0	55°	0	0
70°-80°	0.0	0.0	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°	468.6	93.2	83.7	165°	0	0
0°-40°	497.5	99.0	88.8	175°	0	0
0°-60°	502.7	100.0	89.8	180°	0	0
0°-90°	502.7	100.0	89.8			
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°	502.7	100.0	89.8			



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1699
2.5°	1700
5°	1642
7.5°	1468
10°	1252
12.5°	1036
15°	822
17.5°	606
20°	414
22.5°	307
25°	218
27.5°	153
30°	100
32.5°	57
35°	37
37.5°	31
40°	27
42.5°	15
45°	0
47.5°	0
50°	0
52.5°	0
55°	0
57.5°	0
60°	0
62.5°	0
65°	0
67.5°	0
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)