

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: SHAPER

Report Number: P701929

Luminaire Tested: 340-4C-15-D010 / 340-EU4C-1020-9030-4LBW1LI-CC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701929
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-3)
Test Lab: INNOVATION CENTER
Issue Date: 8/30/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 340-4C-15-D010 / 340-EU4C-1020-9030-4LBW1LI-CC
Description: FARALLON 4" LED GLASS DOWNLIGHT. CYLINDRICAL CLEAR GLASS KIT.
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

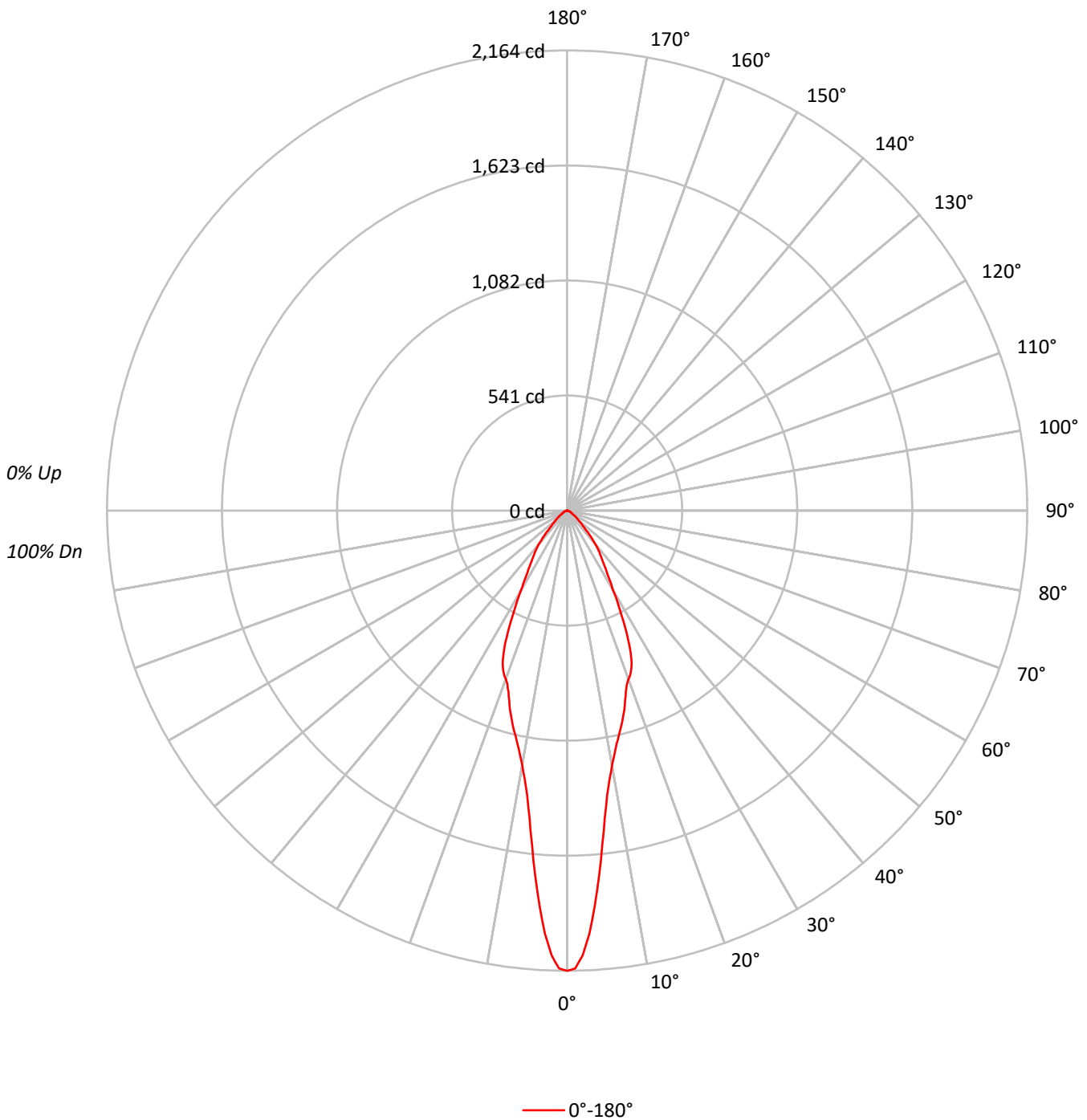
Lumens per Lamp: N/A
Luminaire Lumens: 1082.1 lumens
Efficiency: N/A
Efficacy: 68.5 lumens/watt
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.64
Luminous Opening: Circular (Dia: 0.34' x H: 0')
CIE Type: Direct

Input Watts (W): 15.8
Input Voltage (V): 120
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: 24 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	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	113	110	108	105	111	108	106	103	104	102	100		100	99	97		97	96	94	93
2	107	102	98	94	105	100	96	93	97	94	91		94	91	89		91	89	87	85
3	101	95	89	85	99	93	88	85	91	87	83		88	85	82		86	83	81	79
4	96	88	82	78	94	87	82	78	85	80	77		83	79	76		81	78	75	73
5	91	82	76	72	89	82	76	72	80	75	71		78	74	70		76	73	70	68
6	87	77	71	67	85	77	71	67	75	70	66		74	69	66		72	68	65	64
7	82	73	67	62	81	72	66	62	71	66	62		70	65	61		68	64	61	60
8	78	69	63	58	77	68	62	58	67	62	58		66	61	58		65	61	57	56
9	75	65	59	55	74	64	59	55	63	58	55		63	58	54		62	57	54	53
10	71	62	56	52	70	61	55	52	60	55	52		59	55	51		59	54	51	50

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	251034
5°	200509
10°	143317
15°	121503
20°	104147
25°	88161
30°	57936
35°	41344
40°	31583
45°	18568
50°	12252
55°	8917
60°	5799
65°	5242
70°	4442
75°	3226
80°	2405
85°	1597

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18568 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.4	13.5
10°-20°	281.4	26.0
20°-30°	303.9	28.1
30°-40°	187.7	17.3
40°-50°	94.0	8.7
50°-60°	39.4	3.6
60°-70°	18.6	1.7
70°-80°	8.2	0.8
80°-90°	1.8	0.2
90°-100°	0.2	0.0
100°-110°	0.5	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	731.8	67.6
0°-40°	919.5	85.0
0°-60°	1053.0	97.3
0°-90°	1081.5	99.9
90°-120°	0.6	0.1
90°-150°	0.6	0.1
90°-180°	1.0	0.1
0°-180°	1082.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2164	
5°	1722	146
15°	1012	281
25°	689	304
35°	292	188
45°	113	94
55°	44	39
65°	19	19
75°	7	8
85°	1	2
90°	0	0
95°	0	0
105°	0	0
115°	0	0
125°	0	0
135°	0	0
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	0

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CANDELA DISTRIBUTION (FULL):

0°	
0°	2164.4
1°	2153.7
2°	2092.9
3°	1992.8
4°	1862.9
5°	1722.2
6°	1581.6
7°	1454.1
8°	1352.8
9°	1276.5
10°	1216.9
11°	1165.6
12°	1121.5
13°	1083.4
14°	1048.8
15°	1011.9
16°	974.9
17°	933.2
18°	895.1
19°	864.1
20°	843.8
21°	827.2
22°	805.7
23°	775.9
24°	735.4
25°	688.9
27.5°	554.2
30°	432.6
32.5°	349.2
35°	292.0
37.5°	250.3
40°	208.6
42.5°	156.1
45°	113.2
47.5°	85.8
50°	67.9
52.5°	56.0
55°	44.1
57.5°	31.0
60°	25.0
62.5°	21.5
65°	19.1
67.5°	15.5
70°	13.1
72.5°	9.5

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CANDELA DISTRIBUTION (continued):

	0°
75°	7.2
77.5°	6.0
80°	3.6
82.5°	2.4
85°	1.2
87.5°	1.2
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	1.2
102.5°	1.2
105°	0.0
107.5°	0.0
110°	0.0
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)