

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: P701894

Luminaire Tested: 340-4C-10-D010 / 340-EU4C-1020-9050-4LBW1LI-CC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701894
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-10-D010 / 340-EU4C-1020-9050-4LBW1LI-CC
Description: FARALLON 4" LED GLASS DOWNLIGHT. CYLINDRICAL CLEAR GLASS KIT.
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

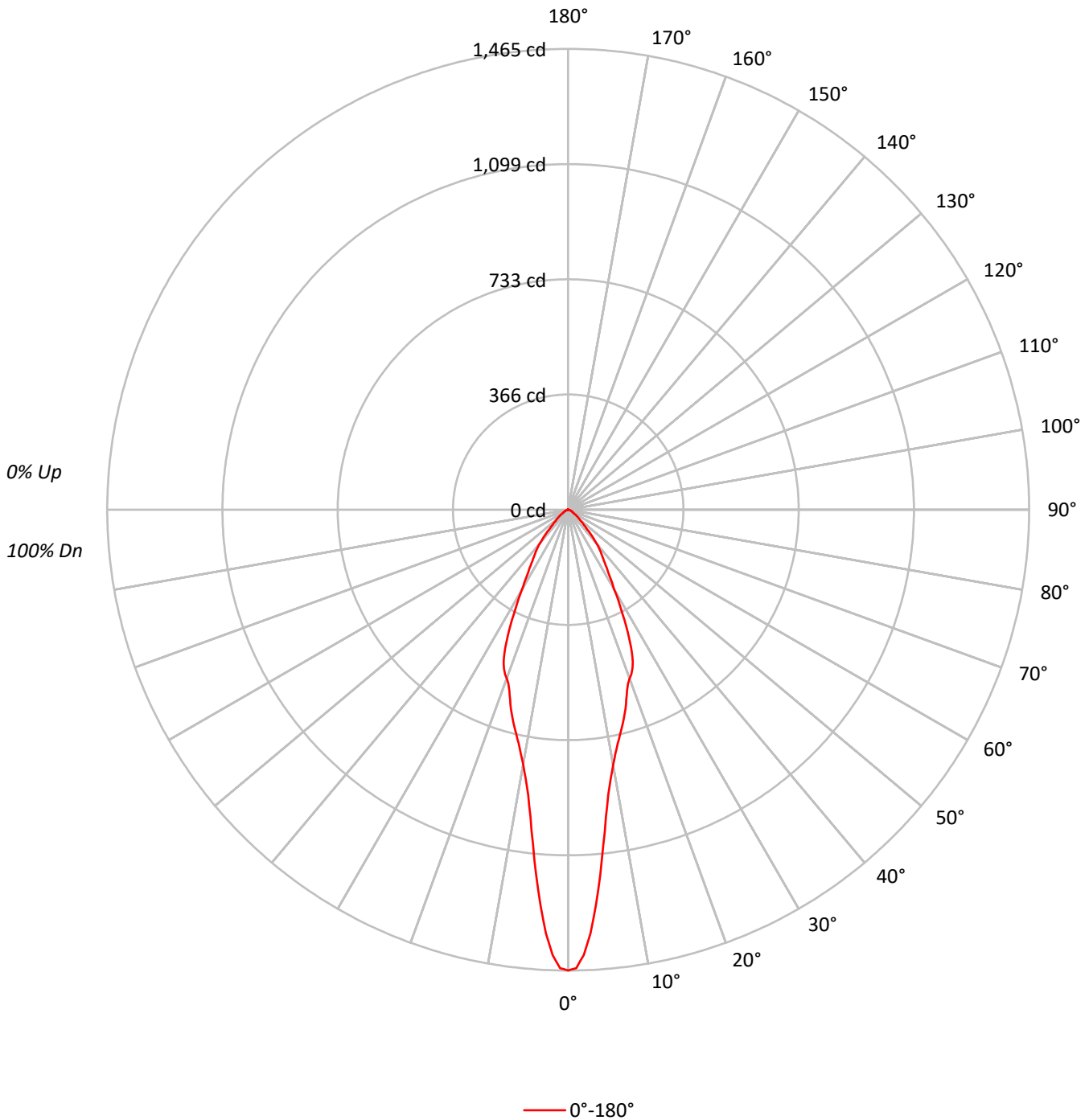
Lumens per Lamp: N/A
Luminaire Lumens: 732.4 lumens
Efficiency: N/A
Efficacy: 74.7 lumens/watt
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.64
Luminous Opening: Circular (Dia: 0.34' x H: 0')
CIE Type: Direct

Input Watts (W): 9.8
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°	169904
5°	135706
10°	96997
15°	82239
20°	70489
25°	59674
30°	39213
35°	27978
40°	21378
45°	12564
50°	8300
55°	6026
60°	3920
65°	3540
70°	3018
75°	2151
80°	1603
85°	1065

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12564 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.1	13.5
10°-20°	190.5	26.0
20°-30°	205.7	28.1
30°-40°	127.1	17.4
40°-50°	63.7	8.7
50°-60°	26.7	3.6
60°-70°	12.6	1.7
70°-80°	5.5	0.8
80°-90°	1.2	0.2
90°-100°	0.1	0.0
100°-110°	0.3	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°	495.3	67.6
0°-40°	622.3	85.0
0°-60°	712.7	97.3
0°-90°	731.9	99.9
90°-120°	0.4	0.1
90°-150°	0.4	0.1
90°-180°	0.0	0.0
0°-180°	732.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1465	
5°	1166	99
15°	685	190
25°	466	206
35°	198	127
45°	77	64
55°	30	27
65°	13	13
75°	5	6
85°	1	1
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°	1464.9
1°	1457.7
2°	1416.5
3°	1348.8
4°	1260.8
5°	1165.6
6°	1070.5
7°	984.1
8°	915.6
9°	864.0
10°	823.6
11°	788.9
12°	759.1
13°	733.3
14°	709.9
15°	684.9
16°	659.9
17°	631.6
18°	605.8
19°	584.8
20°	571.1
21°	559.8
22°	545.3
23°	525.1
24°	497.7
25°	466.3
27.5°	375.1
30°	292.8
32.5°	236.4
35°	197.6
37.5°	169.4
40°	141.2
42.5°	105.7
45°	76.6
47.5°	58.1
50°	46.0
52.5°	37.9
55°	29.8
57.5°	21.0
60°	16.9
62.5°	14.5
65°	12.9
67.5°	10.5
70°	8.9
72.5°	6.5

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CANDELA DISTRIBUTION (continued):

	0°
75°	4.8
77.5°	4.0
80°	2.4
82.5°	1.6
85°	0.8
87.5°	0.8
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.8
102.5°	0.8
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)