

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: P702055

Luminaire Tested: 340-4C-25-D010 / 340-EU4C-3040-9040-4LBW1LI-CC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702055
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-25-D010 / 340-EU4C-3040-9040-4LBW1LI-CC
Description: FARALLON 4" LED GLASS DOWNLIGHT. CYLINDRICAL CLEAR GLASS KIT.
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

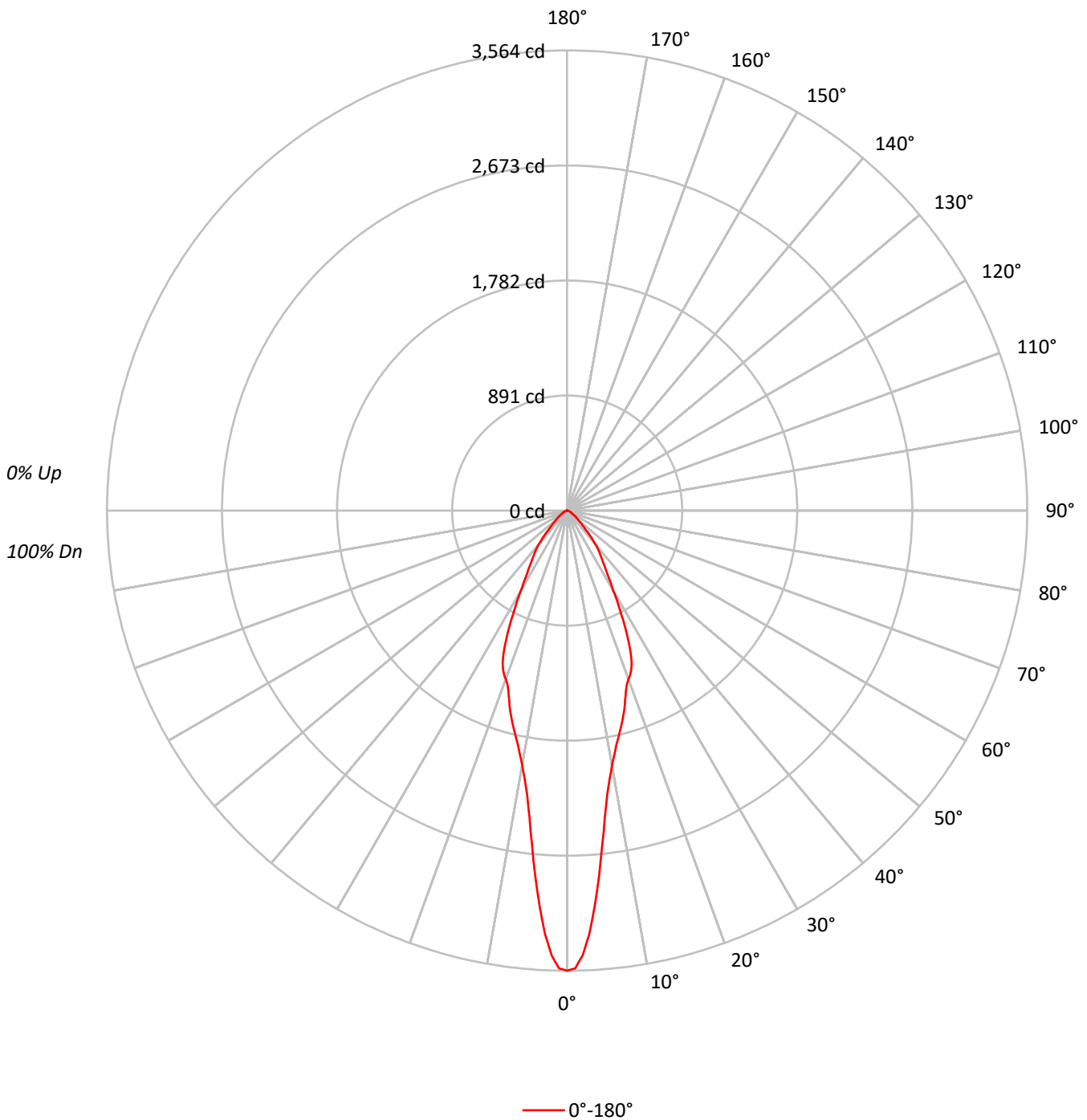
Lumens per Lamp: N/A
Luminaire Lumens: 1781.9 lumens
Efficiency: N/A
Efficacy: 56.6 lumens/watt
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.64
Luminous Opening: Circular (Dia: 0.34' x H: 0')
CIE Type: Direct

Input Watts (W): 31.5
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°	413364
5°	330173
10°	235992
15°	200068
20°	171501
25°	145173
30°	95409
35°	68076
40°	51993
45°	30574
50°	20191
55°	14680
60°	9557
65°	8617
70°	7325
75°	5288
80°	3941
85°	2662

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 30574 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.1	13.5
10°-20°	463.4	26.0
20°-30°	500.5	28.1
30°-40°	309.1	17.3
40°-50°	154.8	8.7
50°-60°	64.9	3.6
60°-70°	30.5	1.7
70°-80°	13.4	0.8
80°-90°	3.0	0.2
90°-100°	0.3	0.0
100°-110°	0.8	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°	1204.9	67.6
0°-40°	1514.1	85.0
0°-60°	1733.8	97.3
0°-90°	1780.8	99.9
90°-120°	1.1	0.1
90°-150°	1.1	0.1
90°-180°	1.0	0.1
0°-180°	1781.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3564	
5°	2836	241
15°	1666	463
25°	1134	500
35°	481	309
45°	186	155
55°	73	65
65°	31	31
75°	12	13
85°	2	3
90°	0	0
95°	0	1
105°	0	1
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°	3564.0
1°	3546.3
2°	3446.2
3°	3281.4
4°	3067.5
5°	2835.9
6°	2604.3
7°	2394.3
8°	2227.5
9°	2101.9
10°	2003.8
11°	1919.4
12°	1846.8
13°	1784.0
14°	1727.0
15°	1666.2
16°	1605.4
17°	1536.7
18°	1473.9
19°	1422.8
20°	1389.5
21°	1362.0
22°	1326.7
23°	1277.6
24°	1210.9
25°	1134.4
27.5°	912.6
30°	712.4
32.5°	575.0
35°	480.8
37.5°	412.1
40°	343.4
42.5°	257.1
45°	186.4
47.5°	141.3
50°	111.9
52.5°	92.2
55°	72.6
57.5°	51.0
60°	41.2
62.5°	35.3
65°	31.4
67.5°	25.5
70°	21.6
72.5°	15.7

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CANDELA DISTRIBUTION (continued):

	0°
75°	11.8
77.5°	9.8
80°	5.9
82.5°	3.9
85°	2.0
87.5°	2.0
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	2.0
102.5°	2.0
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)