

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: P702146

Luminaire Tested: 340-4C-35-D010 / 340-EU4C-3040-9027-4LBW1LI-CC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702146
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-35-D010 / 340-EU4C-3040-9027-4LBW1LI-CC
Description: FARALLON 4" LED GLASS DOWNLIGHT. CYLINDRICAL CLEAR GLASS KIT.
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

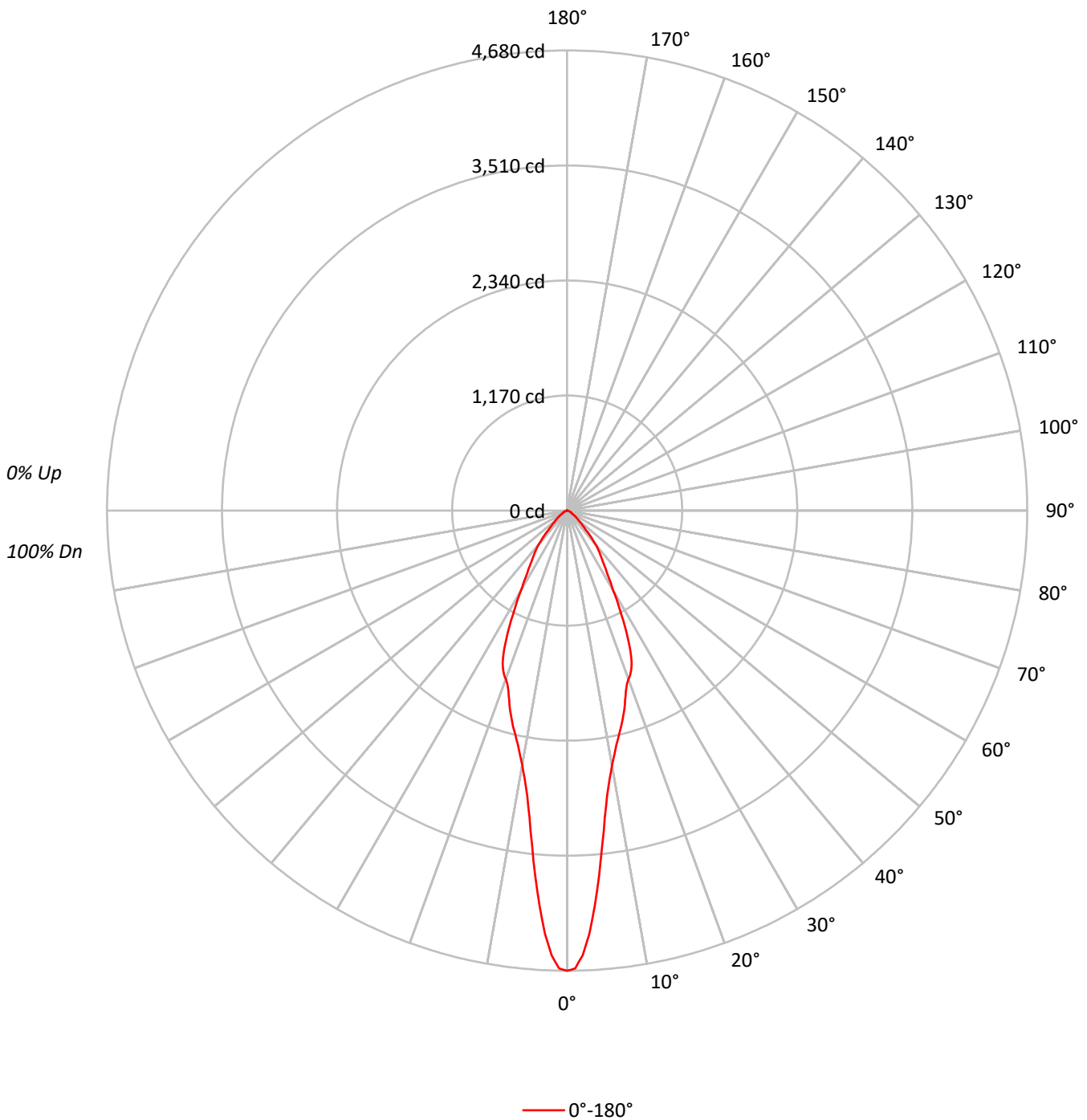
Lumens per Lamp: N/A
Luminaire Lumens: 2339.9 lumens
Efficiency: N/A
Efficacy: 57.9 lumens/watt
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.64
Luminous Opening: Circular (Dia: 0.34' x H: 0')
CIE Type: Direct

Input Watts (W): 40.4
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°	542813
5°	433571
10°	309895
15°	262723
20°	225204
25°	190629
30°	125288
35°	89399
40°	68284
45°	40153
50°	26506
55°	19291
60°	12549
65°	11307
70°	9597
75°	6946
80°	5143
85°	3460

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 40153 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.6	13.5
10°-20°	608.5	26.0
20°-30°	657.2	28.1
30°-40°	406.0	17.3
40°-50°	203.4	8.7
50°-60°	85.3	3.6
60°-70°	40.1	1.7
70°-80°	17.6	0.8
80°-90°	3.9	0.2
90°-100°	0.4	0.0
100°-110°	1.0	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°	1582.3	67.6
0°-40°	1988.2	85.0
0°-60°	2276.9	97.3
0°-90°	2338.5	99.9
90°-120°	1.4	0.1
90°-150°	1.4	0.1
90°-180°	1.0	0.0
0°-180°	2339.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4680	
5°	3724	317
15°	2188	608
25°	1490	657
35°	631	406
45°	245	203
55°	95	85
65°	41	40
75°	16	18
85°	3	4
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	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	4680.1
1°	4656.9
2°	4525.5
3°	4309.0
4°	4028.1
5°	3724.0
6°	3419.9
7°	3144.1
8°	2925.1
9°	2760.1
10°	2631.3
11°	2520.5
12°	2425.1
13°	2342.6
14°	2267.9
15°	2188.0
16°	2108.1
17°	2017.9
18°	1935.4
19°	1868.4
20°	1824.6
21°	1788.5
22°	1742.2
23°	1677.7
24°	1590.1
25°	1489.6
27.5°	1198.4
30°	935.5
32.5°	755.1
35°	631.4
37.5°	541.2
40°	451.0
42.5°	337.6
45°	244.8
47.5°	185.6
50°	146.9
52.5°	121.1
55°	95.4
57.5°	67.0
60°	54.1
62.5°	46.4
65°	41.2
67.5°	33.5
70°	28.3
72.5°	20.6

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CANDELA DISTRIBUTION (continued):

	0°
75°	15.5
77.5°	12.9
80°	7.7
82.5°	5.2
85°	2.6
87.5°	2.6
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	2.6
102.5°	2.6
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)