

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: P702231

Luminaire Tested: 340-4C-40-D010 / 340-EU4C-3040-9050-4LBW1LI-CF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702231
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-4)
Test Lab: INNOVATION CENTER
Issue Date: 8/30/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 340-4C-40-D010 / 340-EU4C-3040-9050-4LBW1LI-CF
Description: FARALLON 4" LED GLASS DOWNLIGHT. CYLINDRICAL FROSTED GLASS KIT.
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

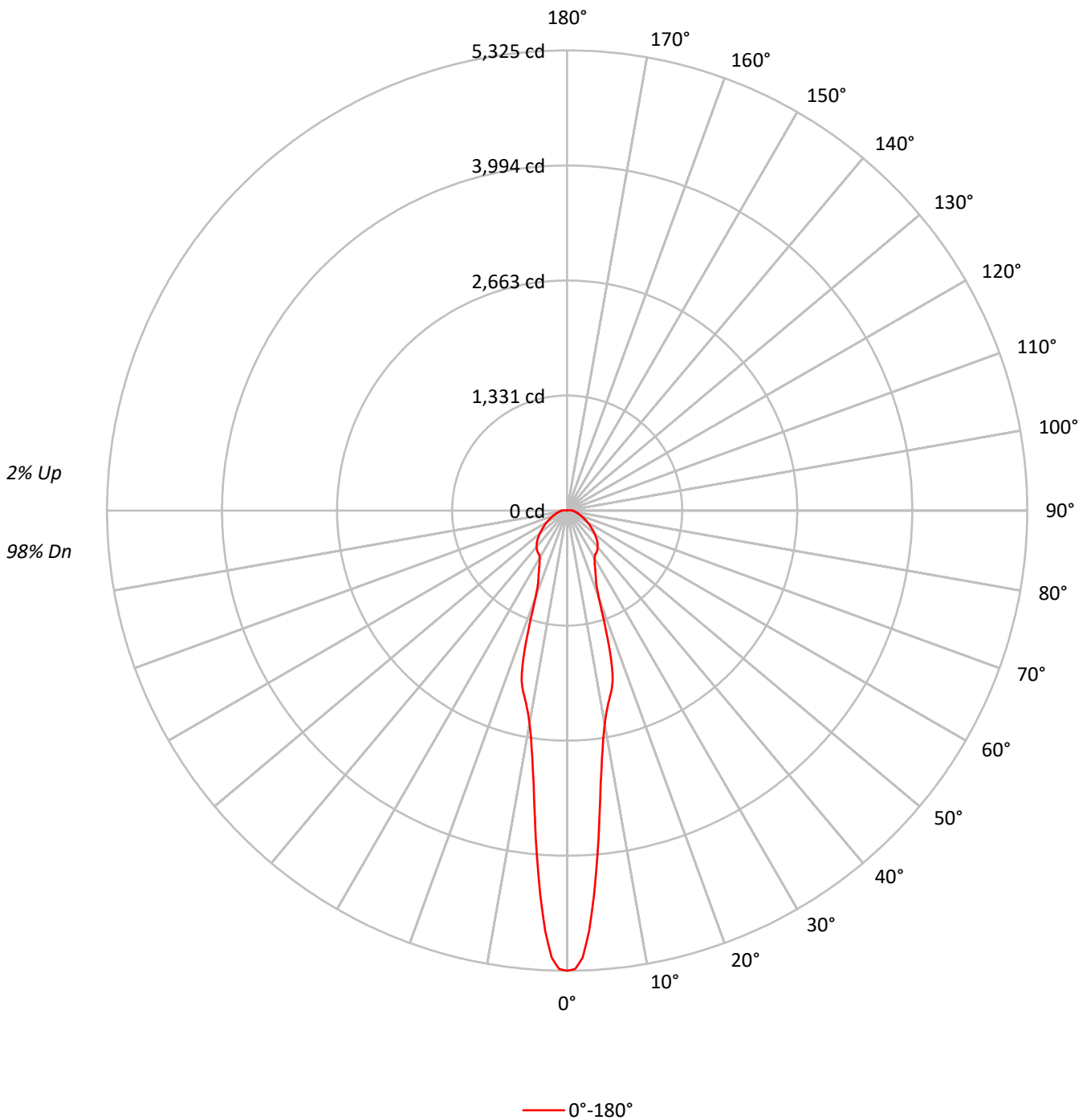
Lumens per Lamp: N/A
Luminaire Lumens: 2756.7 lumens
Efficiency: N/A
Efficacy: 58.7 lumens/watt
Spacing Criteria (0/90/45): 0.3 / 0.3 / 0.45
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 47
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

TEST NUMBER: P702231

CATALOG NUMBER: 340-4C-40-D010 / 340-EU4C-3040-9050-4LBW1LI-CF

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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98				
1	109	105	101	98	106	103	99	96	98	95	92	94	91	89	90	88	86	84				
2	101	94	88	83	98	92	86	82	88	83	80	85	81	77	81	78	75	73				
3	94	85	78	72	91	83	76	71	80	74	70	77	72	68	74	70	67	65				
4	87	77	70	64	85	76	69	63	73	67	62	71	65	61	68	64	60	58				
5	82	71	63	57	80	70	62	57	67	61	56	65	60	55	63	59	55	53				
6	77	65	58	52	75	64	57	52	62	56	51	61	55	51	59	54	50	48				
7	72	61	53	48	71	60	53	48	58	52	47	57	51	47	55	50	46	45				
8	69	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41				
9	65	53	46	41	64	53	46	41	52	45	41	50	45	41	49	44	40	39				
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	617599
5°	407609
10°	226736
15°	167928
20°	81049
25°	55193
30°	42894
35°	38323
40°	34378
45°	29751
50°	24596
55°	19958
60°	16106
65°	12756
70°	10022
75°	8064
80°	6473
85°	5250

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 29751 cd/sqm

TEST NUMBER: P702231

CATALOG NUMBER: 340-4C-40-D010 / 340-EU4C-3040-9050-4LBW1LI-CF

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.0	11.9
10°-20°	519.1	18.8
20°-30°	360.8	13.1
30°-40°	369.7	13.4
40°-50°	374.7	13.6
50°-60°	303.9	11.0
60°-70°	214.6	7.8
70°-80°	140.2	5.1
80°-90°	88.2	3.2
90°-100°	47.5	1.7
100°-110°	9.0	0.3
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°	1208.8	43.9
0°-40°	1578.5	57.3
0°-60°	2257.1	81.9
0°-90°	2700.2	98.0
90°-120°	56.5	2.0
90°-150°	56.5	2.0
90°-180°	56.0	2.0
0°-180°	2756.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5325	
5°	4021	329
15°	2035	519
25°	773	361
35°	592	370
45°	489	375
55°	338	304
65°	216	215
75°	132	140
85°	80	70
90°	61	34
95°	45	32
105°	6	9
115°	0	0
125°	0	0
135°	0	0
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	0

TEST NUMBER: P702231

CATALOG NUMBER: 340-4C-40-D010 / 340-EU4C-3040-9050-4LBW1LI-CF

CANDELA DISTRIBUTION (FULL):

0°	
0°	5324.9
1°	5305.6
2°	5173.6
3°	4871.0
4°	4462.1
5°	4021.0
6°	3576.8
7°	3177.6
8°	2891.0
9°	2665.7
10°	2501.5
11°	2382.4
12°	2285.8
13°	2205.3
14°	2128.0
15°	2034.7
16°	1886.6
17°	1683.7
18°	1452.0
19°	1229.8
20°	1062.4
21°	959.4
22°	891.8
23°	849.9
24°	811.3
25°	772.7
27.5°	689.0
30°	634.2
32.5°	602.0
35°	592.4
37.5°	573.1
40°	550.5
42.5°	521.5
45°	489.3
47.5°	450.7
50°	412.1
52.5°	373.5
55°	338.0
57.5°	305.8
60°	273.6
62.5°	241.5
65°	215.7
67.5°	189.9
70°	167.4
72.5°	148.1

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CATALOG NUMBER: 340-4C-40-D010 / 340-EU4C-3040-9050-4LBW1LI-CF

CANDELA DISTRIBUTION (continued):

	0°
75°	132.0
77.5°	115.9
80°	103.0
82.5°	90.1
85°	80.5
87.5°	70.8
90°	61.2
92.5°	54.7
95°	45.1
97.5°	32.2
100°	22.5
102.5°	12.9
105°	6.4
107.5°	3.2
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)