

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: P702232

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

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702232
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-5)
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-CQ
Description: FARALLON 4" LED GLASS DOWNLIGHT CYLINDRICAL FROSTED, QUADRATE ETCHED GLASS KIT.
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

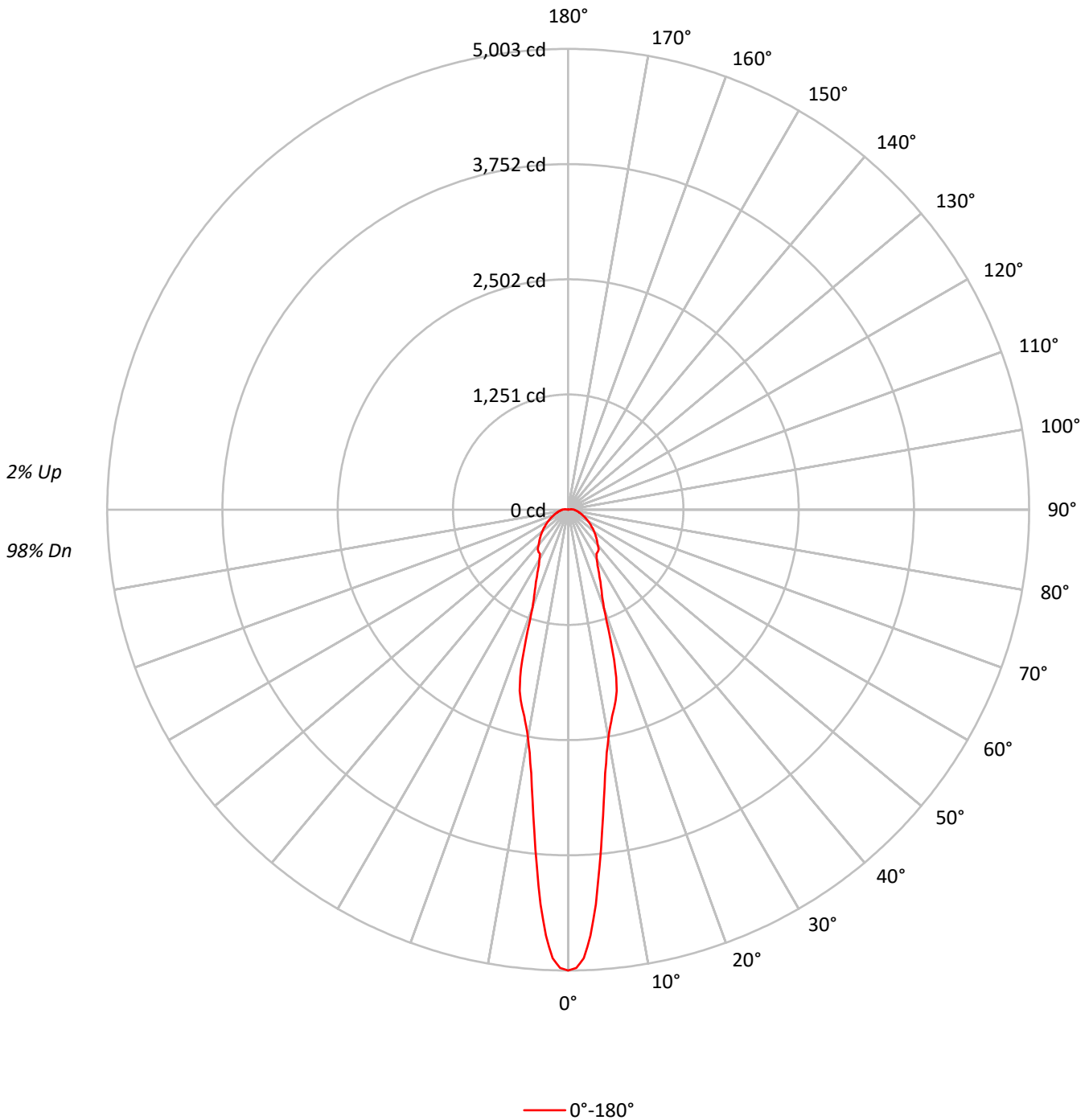
Lumens per Lamp: N/A
Luminaire Lumens: 2666.0 lumens
Efficiency: N/A
Efficacy: 56.7 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.33 / 0.46
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

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

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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	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	99	92	87	82	88	84	80	85	81	78	81	78	76	74				
3	94	85	78	72	92	83	77	72	80	75	70	77	73	69	75	71	67	65				
4	88	78	70	64	86	76	69	64	74	68	63	71	66	62	69	64	61	59				
5	82	71	64	58	80	70	63	58	68	62	57	66	60	56	64	59	55	53				
6	77	66	58	53	76	65	58	53	63	57	52	61	56	52	60	55	51	49				
7	73	62	54	49	71	61	54	49	59	53	48	58	52	48	56	51	47	45				
8	69	58	50	45	68	57	50	45	55	49	45	54	49	44	53	48	44	42				
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	50	45	41	40				
10	63	51	44	40	61	51	44	40	50	44	39	49	43	39	48	43	39	37				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	580252
5°	394888
10°	227606
15°	167920
20°	86450
25°	57486
30°	42021
35°	36240
40°	31162
45°	26230
50°	21904
55°	18057
60°	14782
65°	11993
70°	9639
75°	7868
80°	6473
85°	5250

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 26230 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	322.6	12.1
10°-20°	525.2	19.7
20°-30°	375.7	14.1
30°-40°	349.7	13.1
40°-50°	333.0	12.5
50°-60°	274.1	10.3
60°-70°	201.6	7.6
70°-80°	137.7	5.2
80°-90°	88.6	3.3
90°-100°	48.8	1.8
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°	1223.4	45.9
0°-40°	1573.2	59.0
0°-60°	2180.3	81.8
0°-90°	2608.2	97.8
90°-120°	57.8	2.2
90°-150°	57.8	2.2
90°-180°	58.0	2.2
0°-180°	2666.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5003	
5°	3896	323
15°	2035	525
25°	805	376
35°	560	350
45°	431	333
55°	306	274
65°	203	202
75°	129	138
85°	80	70
90°	64	35
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

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CANDELA DISTRIBUTION (FULL):

0°	
0°	5002.9
1°	4977.2
2°	4870.9
3°	4629.5
4°	4294.7
5°	3895.5
6°	3515.6
7°	3174.3
8°	2887.8
9°	2672.1
10°	2511.1
11°	2392.0
12°	2292.2
13°	2211.7
14°	2131.2
15°	2034.6
16°	1893.0
17°	1706.3
18°	1487.4
19°	1284.5
20°	1133.2
21°	1039.9
22°	972.3
23°	914.3
24°	859.6
25°	804.8
27.5°	692.2
30°	621.3
32.5°	569.8
35°	560.2
37.5°	544.1
40°	499.0
42.5°	463.6
45°	431.4
47.5°	399.2
50°	367.0
52.5°	334.8
55°	305.8
57.5°	276.9
60°	251.1
62.5°	225.4
65°	202.8
67.5°	180.3
70°	161.0
72.5°	144.9

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CANDELA DISTRIBUTION (continued):

	0°
75°	128.8
77.5°	115.9
80°	103.0
82.5°	90.1
85°	80.5
87.5°	70.8
90°	64.4
92.5°	57.9
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)