

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: P702239

Luminaire Tested: 340-4C-40-D010 / 340-EU4C-3040-9727-4LBW1LI-CQ

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702239
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-3040-9727-4LBW1LI-CQ
Description: FARALLON 4" LED GLASS DOWNLIGHT CYLINDRICAL FROSTED, QUADRATE ETCHED GLASS KIT.
Light Source: 2700K CCT, 97 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

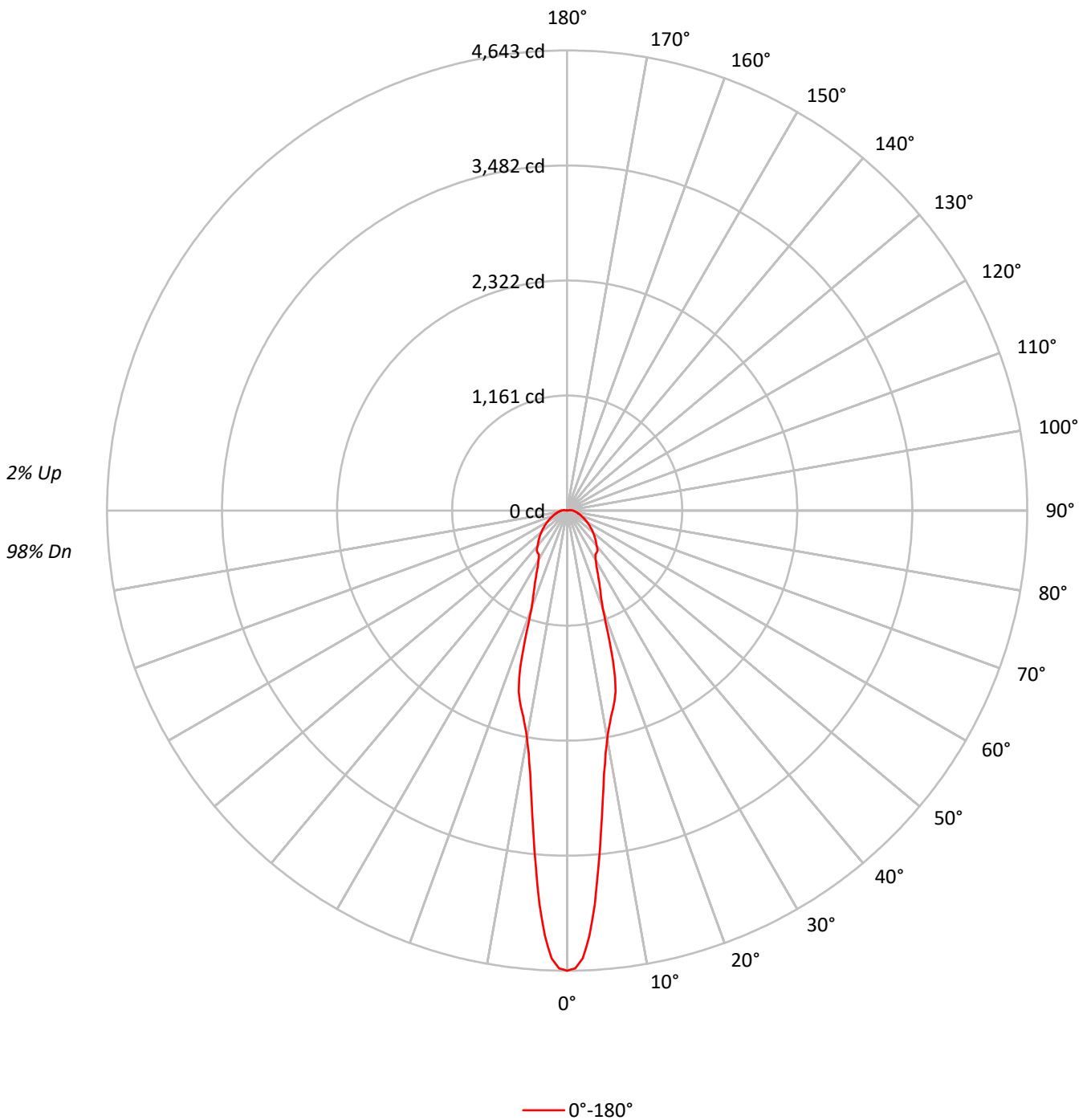
Lumens per Lamp: N/A
Luminaire Lumens: 2474.5 lumens
Efficiency: N/A
Efficacy: 52.6 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.33 / 0.46
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

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	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°	538545
5°	366504
10°	211246
15°	155854
20°	80240
25°	53357
30°	39005
35°	33633
40°	28920
45°	24345
50°	20329
55°	16764
60°	13722
65°	11130
70°	8944
75°	7300
80°	6008
85°	4872

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 24345 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.4	12.1
10°-20°	487.4	19.7
20°-30°	348.7	14.1
30°-40°	324.6	13.1
40°-50°	309.1	12.5
50°-60°	254.4	10.3
60°-70°	187.1	7.6
70°-80°	127.8	5.2
80°-90°	82.3	3.3
90°-100°	45.3	1.8
100°-110°	8.4	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°	1135.5	45.9
0°-40°	1460.1	59.0
0°-60°	2023.6	81.8
0°-90°	2420.8	97.8
90°-120°	53.7	2.2
90°-150°	53.7	2.2
90°-180°	54.0	2.2
0°-180°	2474.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4643	
5°	3616	299
15°	1888	487
25°	747	349
35°	520	325
45°	400	309
55°	284	254
65°	188	187
75°	120	128
85°	75	65
90°	60	33
95°	42	30
105°	6	8
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°	4643.3
1°	4619.4
2°	4520.8
3°	4296.7
4°	3986.0
5°	3615.5
6°	3262.9
7°	2946.1
8°	2680.2
9°	2480.0
10°	2330.6
11°	2220.1
12°	2127.4
13°	2052.7
14°	1978.0
15°	1888.4
16°	1756.9
17°	1583.6
18°	1380.4
19°	1192.2
20°	1051.8
21°	965.1
22°	902.4
23°	848.6
24°	797.8
25°	747.0
27.5°	642.4
30°	576.7
32.5°	528.9
35°	519.9
37.5°	505.0
40°	463.1
42.5°	430.3
45°	400.4
47.5°	370.5
50°	340.6
52.5°	310.7
55°	283.9
57.5°	257.0
60°	233.1
62.5°	209.2
65°	188.2
67.5°	167.3
70°	149.4
72.5°	134.5

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CANDELA DISTRIBUTION (continued):

	0°
75°	119.5
77.5°	107.6
80°	95.6
82.5°	83.7
85°	74.7
87.5°	65.7
90°	59.8
92.5°	53.8
95°	41.8
97.5°	29.9
100°	20.9
102.5°	12.0
105°	6.0
107.5°	3.0
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)