

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: P702175

Luminaire Tested: 340-4C-35-D010 / 340-EU4C-3040-9050-4LBW1LI-CF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702175
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-35-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

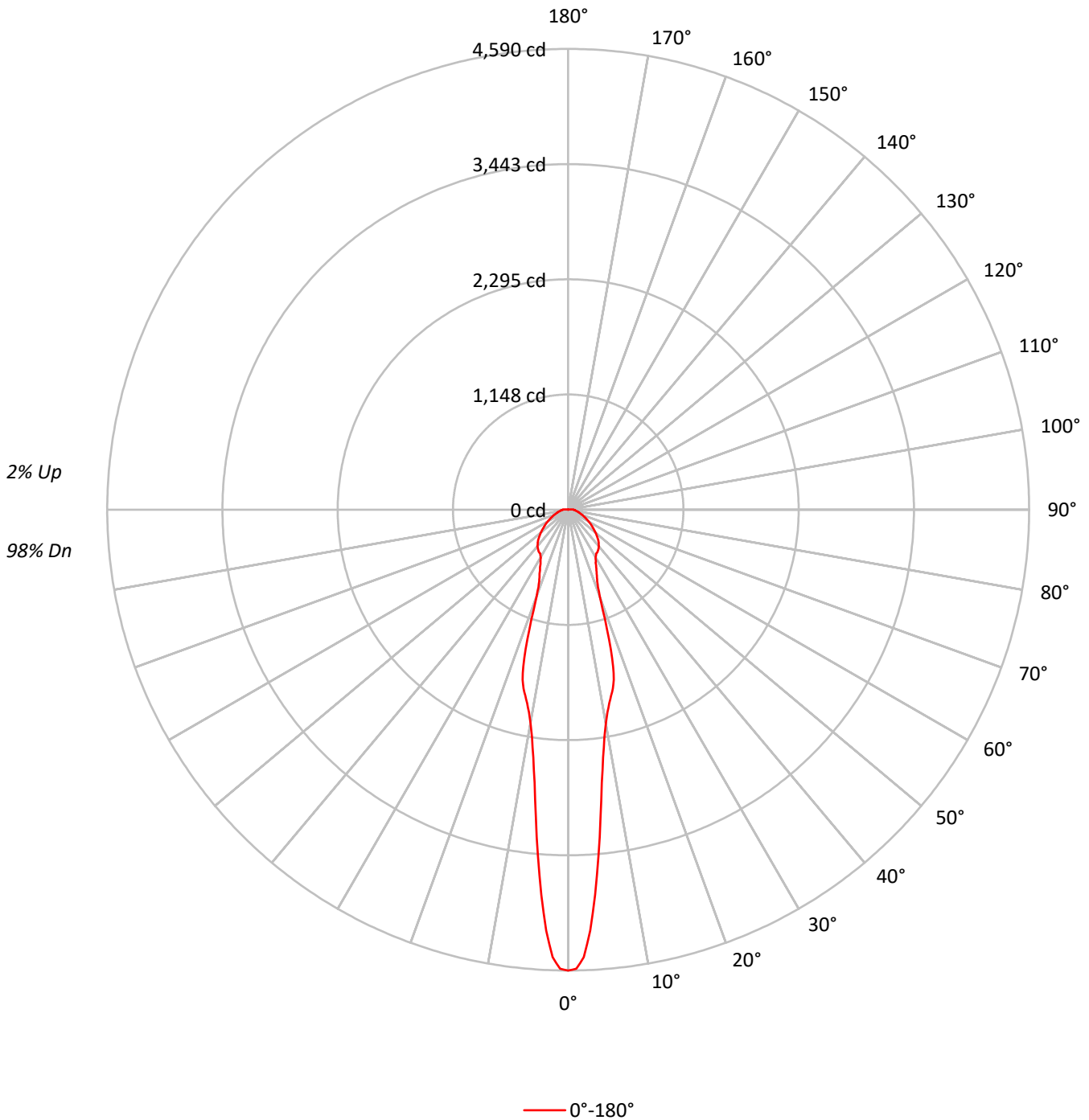
Lumens per Lamp: N/A
Luminaire Lumens: 2376.5 lumens
Efficiency: N/A
Efficacy: 58.8 lumens/watt
Spacing Criteria (0/90/45): 0.3 / 0.3 / 0.45
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 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	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°	532421
5°	351390
10°	195465
15°	144761
20°	69873
25°	47579
30°	36976
35°	33038
40°	29638
45°	25653
50°	21200
55°	17207
60°	13887
65°	10994
70°	8639
75°	6952
80°	5581
85°	4526

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 25653 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.6	11.9
10°-20°	447.5	18.8
20°-30°	311.0	13.1
30°-40°	318.7	13.4
40°-50°	323.0	13.6
50°-60°	262.0	11.0
60°-70°	185.0	7.8
70°-80°	120.9	5.1
80°-90°	76.0	3.2
90°-100°	40.9	1.7
100°-110°	7.8	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°	1042.1	43.8
0°-40°	1360.8	57.3
0°-60°	1945.8	81.9
0°-90°	2327.8	97.9
90°-120°	48.7	2.1
90°-150°	48.7	2.1
90°-180°	49.0	2.1
0°-180°	2376.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4590	
5°	3466	284
15°	1754	448
25°	666	311
35°	511	319
45°	422	323
55°	291	262
65°	186	185
75°	114	121
85°	69	60
90°	53	29
95°	39	27
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	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	4590.5
1°	4573.8
2°	4460.0
3°	4199.1
4°	3846.7
5°	3466.4
6°	3083.4
7°	2739.3
8°	2492.3
9°	2298.0
10°	2156.5
11°	2053.8
12°	1970.5
13°	1901.1
14°	1834.5
15°	1754.0
16°	1626.4
17°	1451.5
18°	1251.7
19°	1060.2
20°	915.9
21°	827.1
22°	768.8
23°	732.7
24°	699.4
25°	666.1
27.5°	593.9
30°	546.7
32.5°	519.0
35°	510.7
37.5°	494.0
40°	474.6
42.5°	449.6
45°	421.9
47.5°	388.6
50°	355.2
52.5°	321.9
55°	291.4
57.5°	263.7
60°	235.9
62.5°	208.2
65°	185.9
67.5°	163.7
70°	144.3
72.5°	127.7

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CANDELA DISTRIBUTION (continued):

	0°
75°	113.8
77.5°	99.9
80°	88.8
82.5°	77.7
85°	69.4
87.5°	61.1
90°	52.7
92.5°	47.2
95°	38.9
97.5°	27.8
100°	19.4
102.5°	11.1
105°	5.6
107.5°	2.8
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)