

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: P702183

Luminaire Tested: 340-4C-35-D010 / 340-EU4C-3040-9727-4LBW1LI-CQ

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702183
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-35-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

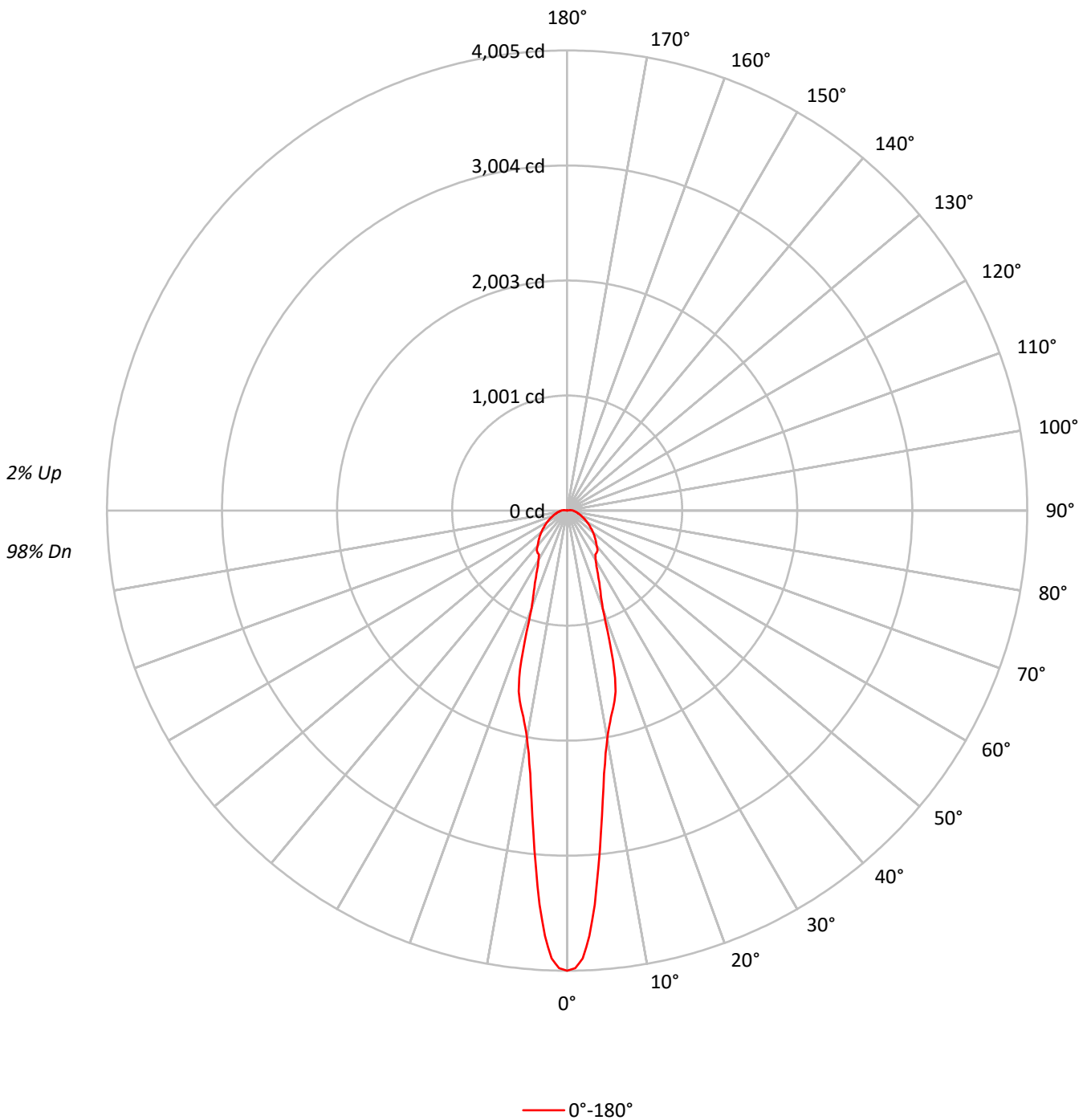
Lumens per Lamp: N/A
Luminaire Lumens: 2134.2 lumens
Efficiency: N/A
Efficacy: 52.8 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.33 / 0.46
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 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	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°	464501
5°	316113
10°	182205
15°	134428
20°	69209
25°	46021
30°	33641
35°	29007
40°	24948
45°	20995
50°	17535
55°	14455
60°	11833
65°	9604
70°	7717
75°	6298
80°	5185
85°	4200

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 20995 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.2	12.1
10°-20°	420.4	19.7
20°-30°	300.8	14.1
30°-40°	280.0	13.1
40°-50°	266.6	12.5
50°-60°	219.4	10.3
60°-70°	161.4	7.6
70°-80°	110.3	5.2
80°-90°	71.0	3.3
90°-100°	39.1	1.8
100°-110°	7.2	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°	979.4	45.9
0°-40°	1259.4	59.0
0°-60°	1745.4	81.8
0°-90°	2087.9	97.8
90°-120°	46.3	2.2
90°-150°	46.3	2.2
90°-180°	46.0	2.2
0°-180°	2134.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4005	
5°	3118	258
15°	1629	420
25°	644	301
35°	448	280
45°	345	267
55°	245	219
65°	162	161
75°	103	110
85°	64	56
90°	52	28
95°	36	26
105°	5	7
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°	4004.9
1°	3984.3
2°	3899.2
3°	3705.9
4°	3437.9
5°	3118.4
6°	2814.2
7°	2541.1
8°	2311.7
9°	2139.0
10°	2010.2
11°	1914.8
12°	1834.9
13°	1770.5
14°	1706.1
15°	1628.8
16°	1515.4
17°	1365.9
18°	1190.6
19°	1028.3
20°	907.2
21°	832.4
22°	778.3
23°	731.9
24°	688.1
25°	644.3
27.5°	554.1
30°	497.4
32.5°	456.2
35°	448.4
37.5°	435.5
40°	399.5
42.5°	371.1
45°	345.3
47.5°	319.6
50°	293.8
52.5°	268.0
55°	244.8
57.5°	221.6
60°	201.0
62.5°	180.4
65°	162.4
67.5°	144.3
70°	128.9
72.5°	116.0

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CANDELA DISTRIBUTION (continued):

	0°
75°	103.1
77.5°	92.8
80°	82.5
82.5°	72.2
85°	64.4
87.5°	56.7
90°	51.5
92.5°	46.4
95°	36.1
97.5°	25.8
100°	18.0
102.5°	10.3
105°	5.2
107.5°	2.6
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)