

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: P701910

Luminaire Tested: 340-4C-10-D010 / 340-EU4C-1020-9730-4LBW1LI-CQ

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701910
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-10-D010 / 340-EU4C-1020-9730-4LBW1LI-CQ
Description: FARALLON 4" LED GLASS DOWNLIGHT CYLINDRICAL FROSTED, QUADRATE ETCHED GLASS KIT.
Light Source: 3000K CCT, 97 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

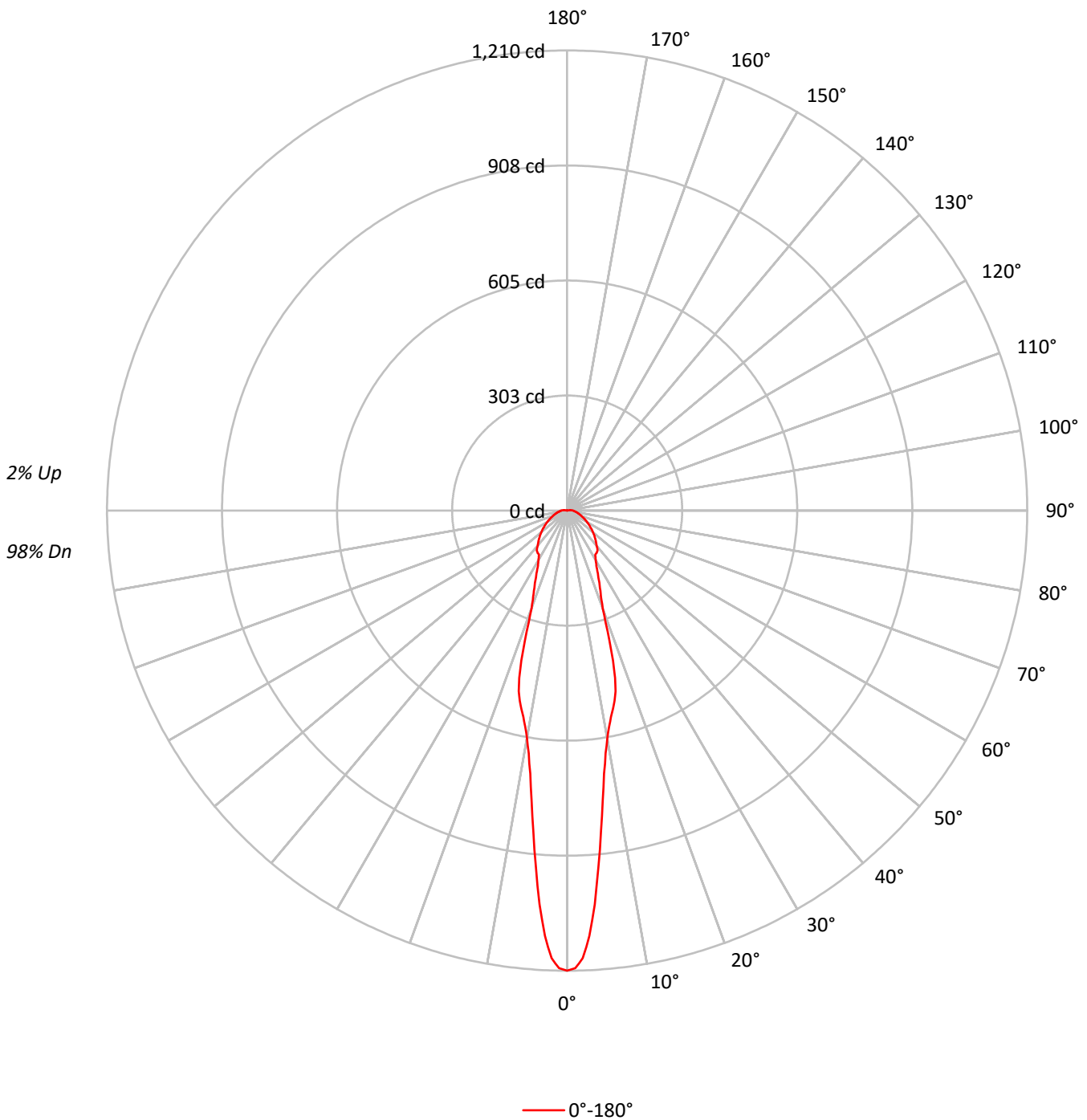
Lumens per Lamp: N/A
Luminaire Lumens: 644.7 lumens
Efficiency: N/A
Efficacy: 65.8 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.33 / 0.46
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 9.8
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°	140316
5°	95491
10°	55037
15°	40606
20°	20903
25°	13900
30°	10159
35°	8766
40°	7537
45°	6342
50°	5294
55°	4370
60°	3573
65°	2898
70°	2329
75°	1900
80°	1565
85°	1272

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6342 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.0	12.1
10°-20°	127.0	19.7
20°-30°	90.9	14.1
30°-40°	84.6	13.1
40°-50°	80.5	12.5
50°-60°	66.3	10.3
60°-70°	48.7	7.6
70°-80°	33.3	5.2
80°-90°	21.4	3.3
90°-100°	11.8	1.8
100°-110°	2.2	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°	295.8	45.9
0°-40°	380.4	59.0
0°-60°	527.3	81.8
0°-90°	630.7	97.8
90°-120°	14.0	2.2
90°-150°	14.0	2.2
90°-180°	14.0	2.2
0°-180°	644.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1210	
5°	942	78
15°	492	127
25°	195	91
35°	136	85
45°	104	81
55°	74	66
65°	49	49
75°	31	33
85°	20	17
90°	16	9
95°	11	8
105°	2	2
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°	1209.8
1°	1203.5
2°	1177.9
3°	1119.5
4°	1038.5
5°	942.0
6°	850.1
7°	767.6
8°	698.3
9°	646.1
10°	607.2
11°	578.4
12°	554.3
13°	534.8
14°	515.4
15°	492.0
16°	457.8
17°	412.6
18°	359.7
19°	310.6
20°	274.0
21°	251.5
22°	235.1
23°	221.1
24°	207.9
25°	194.6
27.5°	167.4
30°	150.2
32.5°	137.8
35°	135.5
37.5°	131.6
40°	120.7
42.5°	112.1
45°	104.3
47.5°	96.5
50°	88.7
52.5°	81.0
55°	74.0
57.5°	67.0
60°	60.7
62.5°	54.5
65°	49.0
67.5°	43.6
70°	38.9
72.5°	35.0

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CANDELA DISTRIBUTION (continued):

	0°
75°	31.1
77.5°	28.0
80°	24.9
82.5°	21.8
85°	19.5
87.5°	17.1
90°	15.6
92.5°	14.0
95°	10.9
97.5°	7.8
100°	5.4
102.5°	3.1
105°	1.6
107.5°	0.8
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)