

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: P701840

Luminaire Tested: 340-4C-08-D010 / 340-EU4C-1020-9050-4LBW1LI-CQ

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701840
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-08-D010 / 340-EU4C-1020-9050-4LBW1LI-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

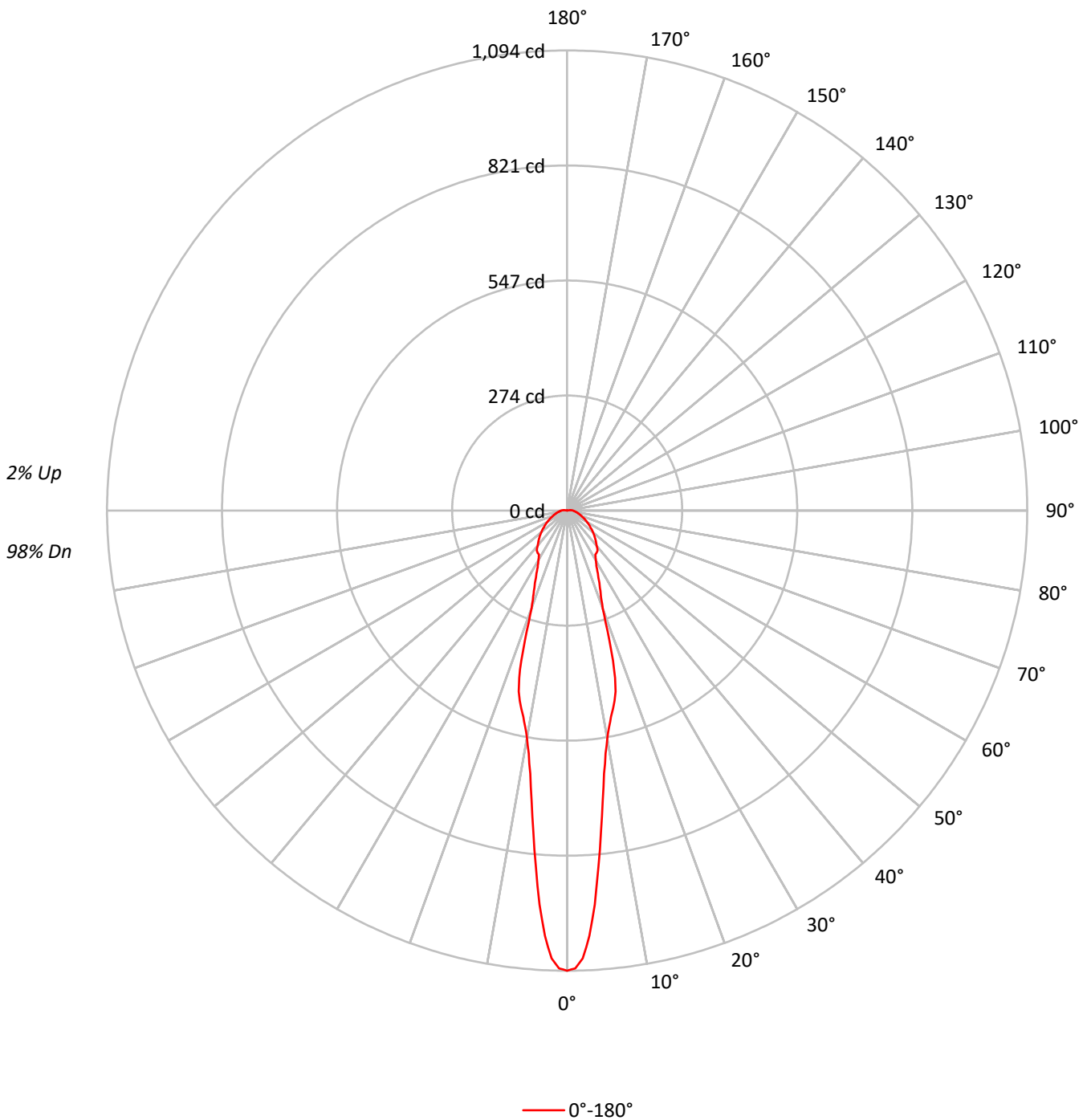
Lumens per Lamp: N/A
Luminaire Lumens: 583.0 lumens
Efficiency: N/A
Efficacy: 58.9 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.33 / 0.46
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 9.9
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°	126886
5°	86347
10°	49770
15°	36719
20°	18904
25°	12571
30°	9192
35°	7925
40°	6813
45°	5734
50°	4793
55°	3950
60°	3232
65°	2626
70°	2107
75°	1723
80°	1414
85°	1148

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5734 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.5	12.1
10°-20°	114.8	19.7
20°-30°	82.2	14.1
30°-40°	76.5	13.1
40°-50°	72.8	12.5
50°-60°	59.9	10.3
60°-70°	44.1	7.6
70°-80°	30.1	5.2
80°-90°	19.4	3.3
90°-100°	10.7	1.8
100°-110°	2.0	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°	267.5	45.9
0°-40°	344.0	59.0
0°-60°	476.8	81.8
0°-90°	570.4	97.8
90°-120°	12.6	2.2
90°-150°	12.6	2.2
90°-180°	13.0	2.2
0°-180°	583.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1094	
5°	852	71
15°	445	115
25°	176	82
35°	122	76
45°	94	73
55°	67	60
65°	44	44
75°	28	30
85°	18	15
90°	14	8
95°	10	7
105°	1	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°	1094.0
1°	1088.4
2°	1065.2
3°	1012.4
4°	939.1
5°	851.8
6°	768.8
7°	694.1
8°	631.5
9°	584.3
10°	549.1
11°	523.1
12°	501.3
13°	483.6
14°	466.0
15°	444.9
16°	414.0
17°	373.1
18°	325.2
19°	280.9
20°	247.8
21°	227.4
22°	212.6
23°	199.9
24°	188.0
25°	176.0
27.5°	151.4
30°	135.9
32.5°	124.6
35°	122.5
37.5°	119.0
40°	109.1
42.5°	101.4
45°	94.3
47.5°	87.3
50°	80.3
52.5°	73.2
55°	66.9
57.5°	60.5
60°	54.9
62.5°	49.3
65°	44.4
67.5°	39.4
70°	35.2
72.5°	31.7

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CANDELA DISTRIBUTION (continued):

	0°
75°	28.2
77.5°	25.3
80°	22.5
82.5°	19.7
85°	17.6
87.5°	15.5
90°	14.1
92.5°	12.7
95°	9.9
97.5°	7.0
100°	4.9
102.5°	2.8
105°	1.4
107.5°	0.7
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)