

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: P701763

Luminaire Tested: 340-4C-05-D010 / 340-EU4C-1020-9030-4LBW1LI-CQ

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701763
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-05-D010 / 340-EU4C-1020-9030-4LBW1LI-CQ
Description: FARALLON 4" LED GLASS DOWNLIGHT CYLINDRICAL FROSTED, QUADRATE ETCHED GLASS KIT.
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

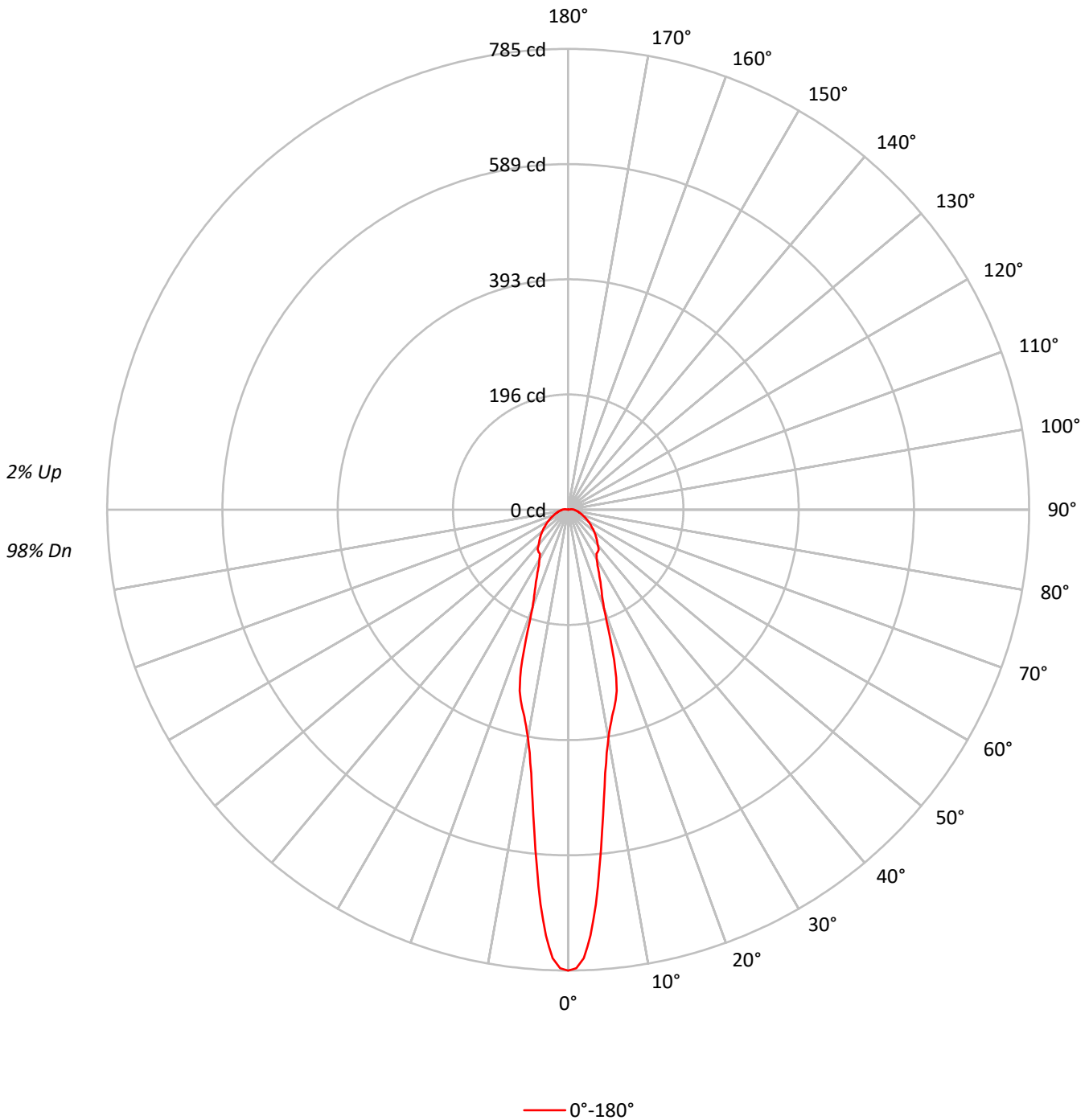
Lumens per Lamp: N/A
Luminaire Lumens: 418.4 lumens
Efficiency: N/A
Efficacy: 58.1 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.33 / 0.46
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 7.2
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	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°	91058
5°	61968
10°	35721
15°	26352
20°	13564
25°	9021
30°	6594
35°	5686
40°	4890
45°	4116
50°	3438
55°	2834
60°	2319
65°	1881
70°	1515
75°	1234
80°	1018
85°	822

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4116 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.6	12.1
10°-20°	82.4	19.7
20°-30°	59.0	14.1
30°-40°	54.9	13.1
40°-50°	52.3	12.5
50°-60°	43.0	10.3
60°-70°	31.6	7.6
70°-80°	21.6	5.2
80°-90°	13.9	3.3
90°-100°	7.7	1.8
100°-110°	1.4	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°	192.0	45.9
0°-40°	246.9	59.0
0°-60°	342.1	81.8
0°-90°	409.3	97.8
90°-120°	9.1	2.2
90°-150°	9.1	2.2
90°-180°	9.0	2.2
0°-180°	418.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	785	
5°	611	51
15°	319	82
25°	126	59
35°	88	55
45°	68	52
55°	48	43
65°	32	32
75°	20	22
85°	13	11
90°	10	6
95°	7	5
105°	1	1
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°	785.1
1°	781.1
2°	764.4
3°	726.5
4°	674.0
5°	611.3
6°	551.7
7°	498.1
8°	453.2
9°	419.3
10°	394.1
11°	375.4
12°	359.7
13°	347.1
14°	334.5
15°	319.3
16°	297.1
17°	267.8
18°	233.4
19°	201.6
20°	177.8
21°	163.2
22°	152.6
23°	143.5
24°	134.9
25°	126.3
27.5°	108.6
30°	97.5
32.5°	89.4
35°	87.9
37.5°	85.4
40°	78.3
42.5°	72.8
45°	67.7
47.5°	62.6
50°	57.6
52.5°	52.5
55°	48.0
57.5°	43.4
60°	39.4
62.5°	35.4
65°	31.8
67.5°	28.3
70°	25.3
72.5°	22.7

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CANDELA DISTRIBUTION (continued):

	0°
75°	20.2
77.5°	18.2
80°	16.2
82.5°	14.1
85°	12.6
87.5°	11.1
90°	10.1
92.5°	9.1
95°	7.1
97.5°	5.1
100°	3.5
102.5°	2.0
105°	1.0
107.5°	0.5
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)