

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: P701756

Luminaire Tested: 340-4C-05-D010 / 340-EU4C-1020-9027-4LBW1LI-CQ

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701756
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-1020-9027-4LBW1LI-CQ
Description: FARALLON 4" LED GLASS DOWNLIGHT CYLINDRICAL FROSTED, QUADRATE ETCHED GLASS KIT.
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

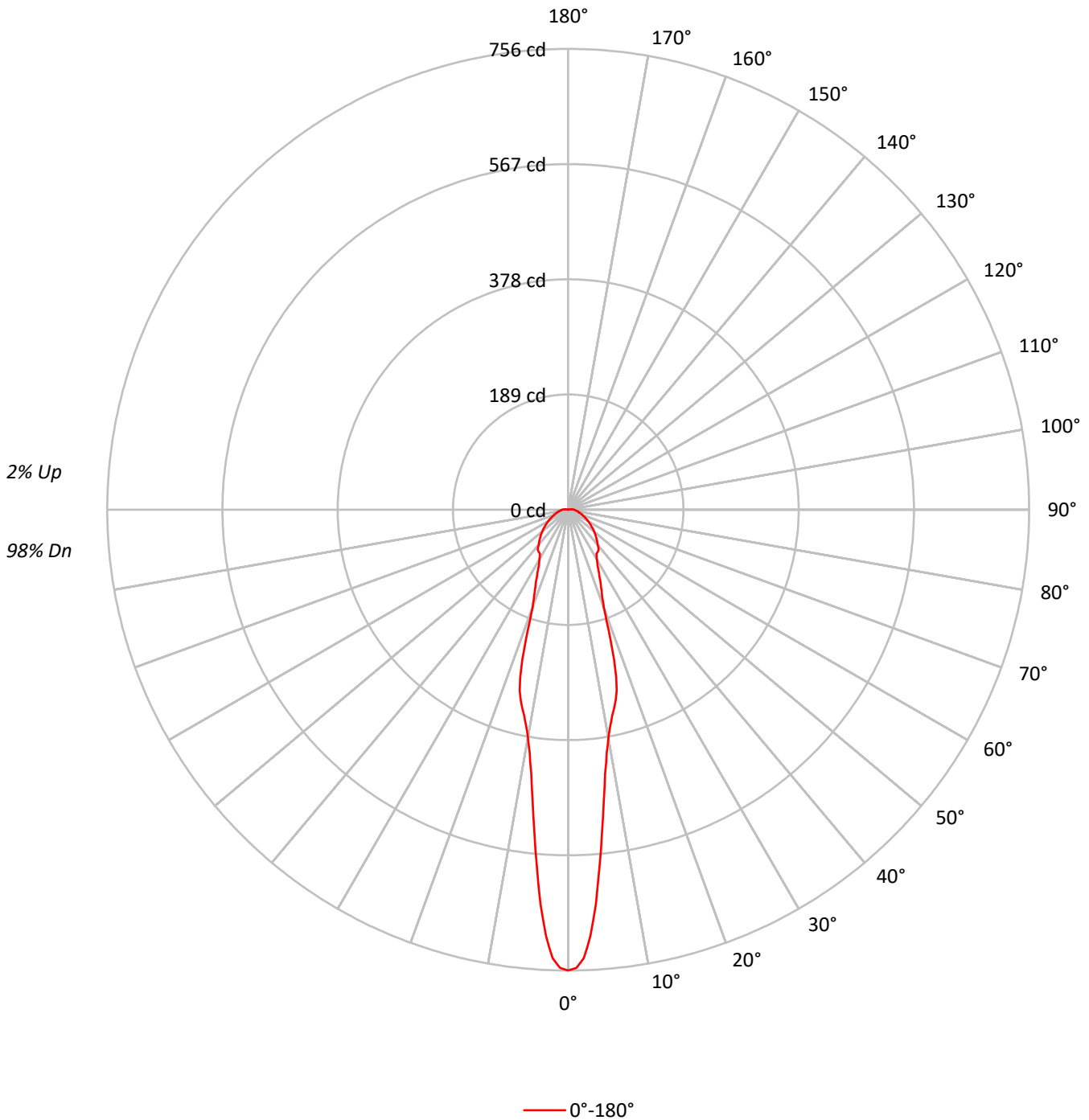
Lumens per Lamp: N/A
Luminaire Lumens: 402.8 lumens
Efficiency: N/A
Efficacy: 55.9 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.33 / 0.46
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 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°	87672
5°	59666
10°	34389
15°	25370
20°	13061
25°	8686
30°	6351
35°	5473
40°	4709
45°	3964
50°	3313
55°	2728
60°	2231
65°	1810
70°	1455
75°	1191
80°	980
85°	796

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3964 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.7	12.1
10°-20°	79.3	19.7
20°-30°	56.8	14.1
30°-40°	52.8	13.1
40°-50°	50.3	12.5
50°-60°	41.4	10.3
60°-70°	30.4	7.6
70°-80°	20.8	5.2
80°-90°	13.4	3.3
90°-100°	7.4	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°	184.9	45.9
0°-40°	237.7	59.0
0°-60°	329.4	81.8
0°-90°	394.1	97.8
90°-120°	8.7	2.2
90°-150°	8.7	2.2
90°-180°	9.0	2.2
0°-180°	402.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	756	
5°	589	49
15°	307	79
25°	122	57
35°	85	53
45°	65	50
55°	46	41
65°	31	30
75°	20	21
85°	12	11
90°	10	5
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°	755.9
1°	752.0
2°	736.0
3°	699.5
4°	648.9
5°	588.6
6°	531.2
7°	479.6
8°	436.3
9°	403.7
10°	379.4
11°	361.4
12°	346.3
13°	334.2
14°	322.0
15°	307.4
16°	286.0
17°	257.8
18°	224.7
19°	194.1
20°	171.2
21°	157.1
22°	146.9
23°	138.1
24°	129.9
25°	121.6
27.5°	104.6
30°	93.9
32.5°	86.1
35°	84.6
37.5°	82.2
40°	75.4
42.5°	70.0
45°	65.2
47.5°	60.3
50°	55.5
52.5°	50.6
55°	46.2
57.5°	41.8
60°	37.9
62.5°	34.1
65°	30.6
67.5°	27.2
70°	24.3
72.5°	21.9

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CANDELA DISTRIBUTION (continued):

	0°
75°	19.5
77.5°	17.5
80°	15.6
82.5°	13.6
85°	12.2
87.5°	10.7
90°	9.7
92.5°	8.8
95°	6.8
97.5°	4.9
100°	3.4
102.5°	1.9
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)