

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: P701917

Luminaire Tested: 340-4C-15-D010 / 340-EU4C-1020-9024-4LBW1LI-CQ

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701917
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-15-D010 / 340-EU4C-1020-9024-4LBW1LI-CQ
Description: FARALLON 4" LED GLASS DOWNLIGHT CYLINDRICAL FROSTED, QUADRATE ETCHED GLASS KIT.
Light Source: 2400K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

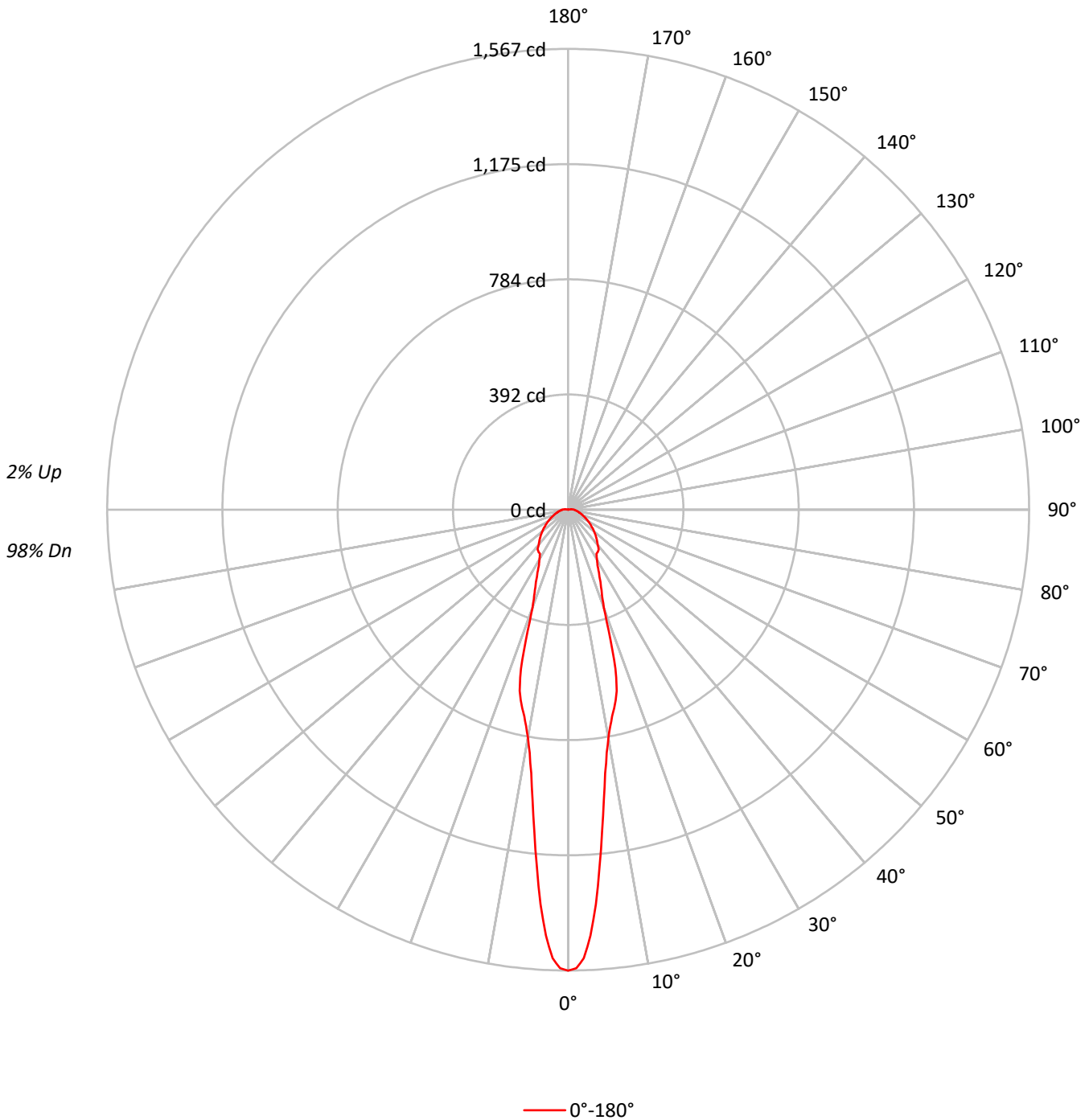
Lumens per Lamp: N/A
Luminaire Lumens: 835.2 lumens
Efficiency: N/A
Efficacy: 52.9 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.33 / 0.46
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 15.8
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°	181792
5°	123712
10°	71307
15°	52606
20°	27082
25°	18014
30°	13168
35°	11353
40°	9761
45°	8221
50°	6864
55°	5657
60°	4633
65°	3755
70°	3017
75°	2462
80°	2030
85°	1644

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8221 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.1	12.1
10°-20°	164.5	19.7
20°-30°	117.7	14.1
30°-40°	109.6	13.1
40°-50°	104.3	12.5
50°-60°	85.9	10.3
60°-70°	63.1	7.6
70°-80°	43.1	5.2
80°-90°	27.8	3.3
90°-100°	15.3	1.8
100°-110°	2.8	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°	383.3	45.9
0°-40°	492.9	59.0
0°-60°	683.1	81.8
0°-90°	817.1	97.8
90°-120°	18.1	2.2
90°-150°	18.1	2.2
90°-180°	18.0	2.2
0°-180°	835.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1567	
5°	1220	101
15°	637	165
25°	252	118
35°	176	110
45°	135	104
55°	96	86
65°	64	63
75°	40	43
85°	25	22
90°	20	11
95°	14	10
105°	2	3
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°	1567.4
1°	1559.3
2°	1526.0
3°	1450.4
4°	1345.5
5°	1220.4
6°	1101.4
7°	994.5
8°	904.7
9°	837.1
10°	786.7
11°	749.4
12°	718.1
13°	692.9
14°	667.7
15°	637.4
16°	593.1
17°	534.6
18°	466.0
19°	402.4
20°	355.0
21°	325.8
22°	304.6
23°	286.4
24°	269.3
25°	252.2
27.5°	216.8
30°	194.7
32.5°	178.5
35°	175.5
37.5°	170.5
40°	156.3
42.5°	145.2
45°	135.2
47.5°	125.1
50°	115.0
52.5°	104.9
55°	95.8
57.5°	86.7
60°	78.7
62.5°	70.6
65°	63.5
67.5°	56.5
70°	50.4
72.5°	45.4

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CANDELA DISTRIBUTION (continued):

	0°
75°	40.3
77.5°	36.3
80°	32.3
82.5°	28.2
85°	25.2
87.5°	22.2
90°	20.2
92.5°	18.2
95°	14.1
97.5°	10.1
100°	7.1
102.5°	4.0
105°	2.0
107.5°	1.0
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)