

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: P702449

Luminaire Tested: 340-6C-15-D010 / 340-EU4C-1020-9040-4LBW1LI-CQ

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702449
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-13)
Test Lab: INNOVATION CENTER
Issue Date: 8/30/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 340-6C-15-D010 / 340-EU4C-1020-9040-4LBW1LI-CQ
Description: FARALLON 6" LED GLASS DOWNLIGHT CYLINDRICAL FROSTED, QUADRATE ETCHED GLASS KIT.
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

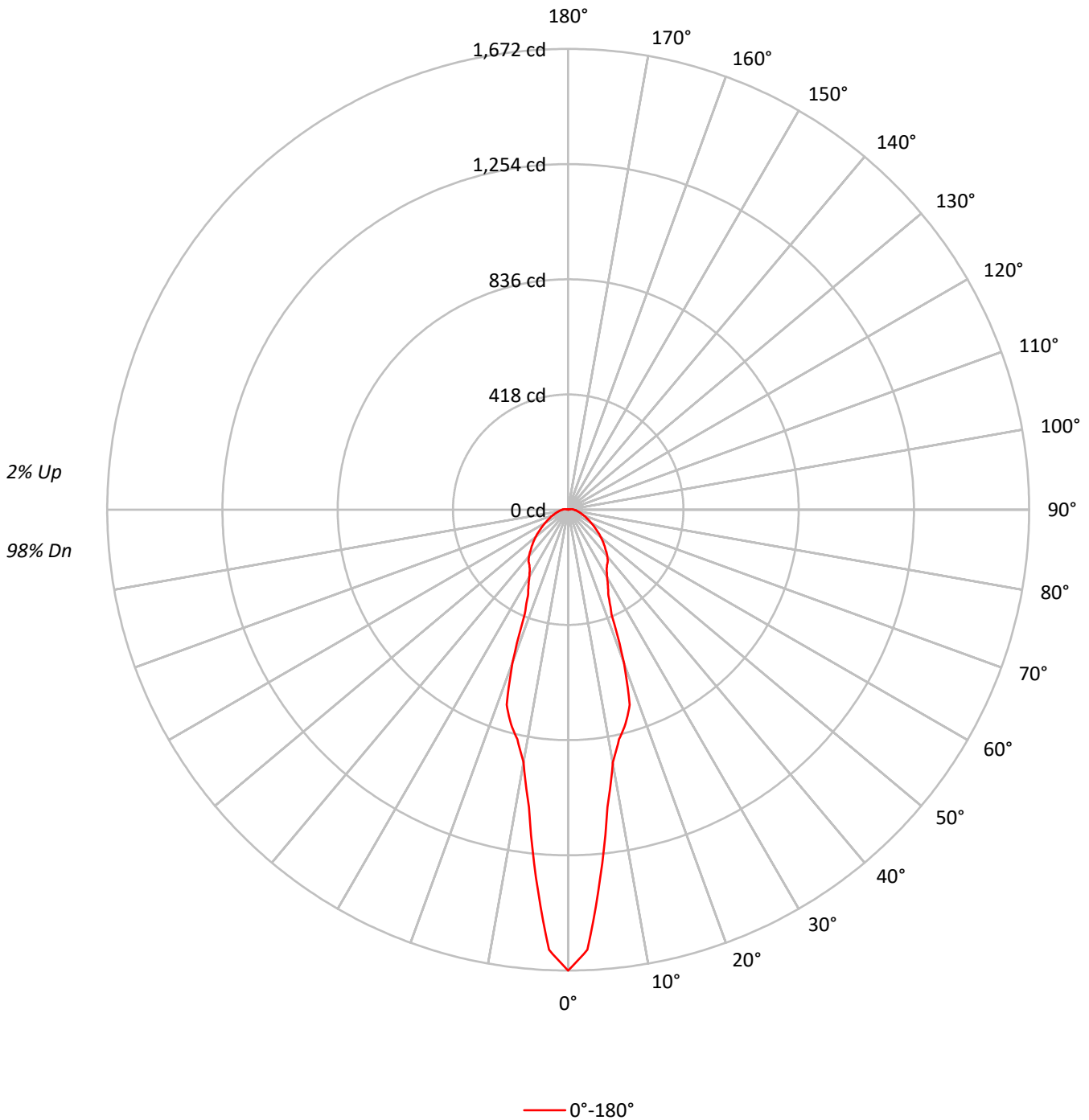
Lumens per Lamp: N/A
Luminaire Lumens: 1093.4 lumens
Efficiency: N/A
Efficacy: 69.2 lumens/watt
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.54
Luminous Opening: Vertical Cylinder (Dia: 0.46' x H: 0.49')
CIE Type: Direct

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	110	105	102	98	107	103	100	97	98	96	93		94	92	90		90	89	87	85
2	102	95	89	84	99	93	87	83	89	84	81		85	82	78		82	79	76	74
3	95	86	79	73	92	84	78	72	81	75	71		78	73	70		75	71	68	66
4	88	78	71	65	86	77	70	64	74	68	63		72	67	62		69	65	61	59
5	83	72	64	58	81	71	63	58	68	62	57		66	61	57		64	60	56	54
6	78	66	59	53	76	65	58	53	63	57	52		62	56	52		60	55	51	49
7	73	62	54	49	71	61	54	49	59	53	48		58	52	48		56	51	47	46
8	69	58	50	45	68	57	50	45	55	49	45		54	48	44		53	48	44	42
9	66	54	47	42	64	53	47	42	52	46	42		51	45	41		50	45	41	40
10	62	51	44	40	61	50	44	39	49	43	39		48	43	39		47	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	109102
5°	78372
10°	49725
15°	39810
20°	27390
25°	15184
30°	11904
35°	9999
40°	8782
45°	7287
50°	5983
55°	4736
60°	3772
65°	2968
70°	2364
75°	1908
80°	1539
85°	1271

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7287 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.5	10.5
10°-20°	219.6	20.1
20°-30°	170.5	15.6
30°-40°	155.1	14.2
40°-50°	143.9	13.2
50°-60°	110.7	10.1
60°-70°	75.8	6.9
70°-80°	49.2	4.5
80°-90°	30.6	2.8
90°-100°	17.7	1.6
100°-110°	5.6	0.5
110°-120°	0.2	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°	504.6	46.1
0°-40°	659.7	60.3
0°-60°	914.3	83.6
0°-90°	1069.9	97.8
90°-120°	23.5	2.2
90°-150°	23.5	2.2
90°-180°	24.0	2.2
0°-180°	1093.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1672	
5°	1339	114
15°	804	220
25°	345	170
35°	245	155
45°	186	144
55°	122	111
65°	75	76
75°	46	49
85°	28	24
90°	20	12
95°	17	12
105°	5	6
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°	1672.3
2.5°	1598.2
5°	1339.1
7.5°	1088.9
10°	930.6
12.5°	852.7
15°	804.2
17.5°	741.7
20°	589.8
22.5°	412.3
25°	344.7
27.5°	311.5
30°	282.1
32.5°	259.1
35°	245.1
37.5°	236.2
40°	220.8
42.5°	203.0
45°	186.4
47.5°	169.8
50°	154.5
52.5°	137.9
55°	122.5
57.5°	109.8
60°	97.0
62.5°	85.5
65°	75.3
67.5°	67.7
70°	58.7
72.5°	52.3
75°	46.0
77.5°	40.8
80°	35.7
82.5°	31.9
85°	28.1
87.5°	24.3
90°	20.4
92.5°	19.1
95°	16.6
97.5°	14.0
100°	10.2
102.5°	7.7
105°	5.1
107.5°	2.6
110°	1.3

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CATALOG NUMBER: 340-6C-15-D010 / 340-EU4C-1020-9040-4LBW1LI-CQ

CANDELA DISTRIBUTION (continued):

	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)