

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: P702281

Luminaire Tested: 340-6C-05-D010 / 340-EU4C-1020-9040-4LBW1LI-CQ

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702281
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-05-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

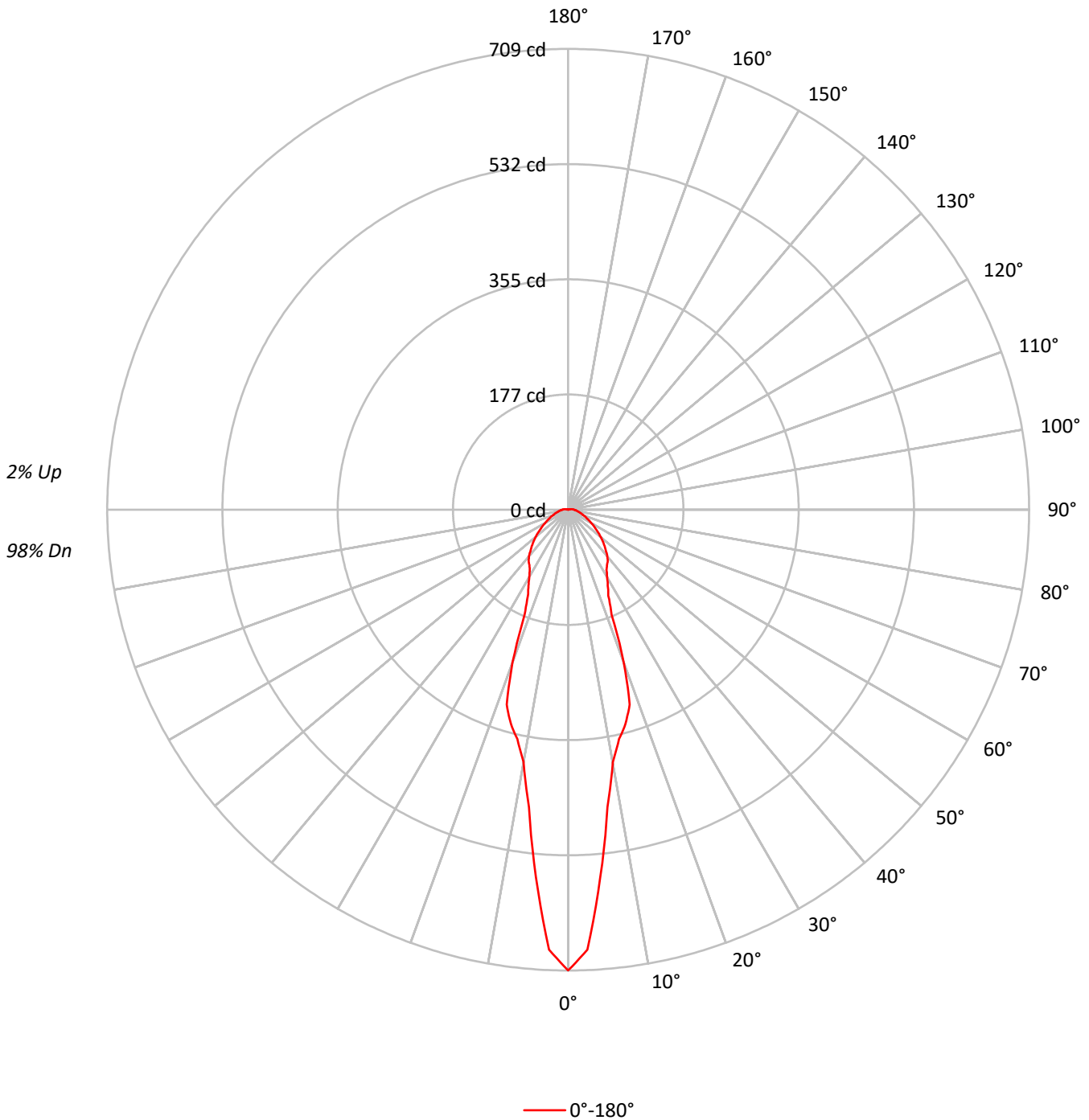
Lumens per Lamp: N/A
Luminaire Lumens: 463.5 lumens
Efficiency: N/A
Efficacy: 64.4 lumens/watt
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.54
Luminous Opening: Vertical Cylinder (Dia: 0.46' x H: 0.49')
CIE Type: Direct

Input Watts (W): 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	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°	46243
5°	33219
10°	21079
15°	16875
20°	11610
25°	6436
30°	5047
35°	4239
40°	3723
45°	3088
50°	2537
55°	2006
60°	1598
65°	1257
70°	1003
75°	809
80°	655
85°	538

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3088 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.5	10.5
10°-20°	93.1	20.1
20°-30°	72.3	15.6
30°-40°	65.7	14.2
40°-50°	61.0	13.2
50°-60°	46.9	10.1
60°-70°	32.1	6.9
70°-80°	20.9	4.5
80°-90°	13.0	2.8
90°-100°	7.5	1.6
100°-110°	2.4	0.5
110°-120°	0.1	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°	213.9	46.1
0°-40°	279.6	60.3
0°-60°	387.5	83.6
0°-90°	453.5	97.8
90°-120°	10.0	2.2
90°-150°	10.0	2.2
90°-180°	10.0	2.2
0°-180°	463.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	709	
5°	568	49
15°	341	93
25°	146	72
35°	104	66
45°	79	61
55°	52	47
65°	32	32
75°	20	21
85°	12	10
90°	9	5
95°	7	5
105°	2	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°	708.8
2.5°	677.4
5°	567.6
7.5°	461.5
10°	394.5
12.5°	361.4
15°	340.9
17.5°	314.4
20°	250.0
22.5°	174.8
25°	146.1
27.5°	132.0
30°	119.6
32.5°	109.8
35°	103.9
37.5°	100.1
40°	93.6
42.5°	86.0
45°	79.0
47.5°	72.0
50°	65.5
52.5°	58.4
55°	51.9
57.5°	46.5
60°	41.1
62.5°	36.3
65°	31.9
67.5°	28.7
70°	24.9
72.5°	22.2
75°	19.5
77.5°	17.3
80°	15.2
82.5°	13.5
85°	11.9
87.5°	10.3
90°	8.7
92.5°	8.1
95°	7.0
97.5°	6.0
100°	4.3
102.5°	3.2
105°	2.2
107.5°	1.1
110°	0.5

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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)