

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: P702330

Luminaire Tested: 340-6C-08-D010 / 340-EU4C-1020-9035-4LBW1LI-CQ

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702330
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-08-D010 / 340-EU4C-1020-9035-4LBW1LI-CQ
Description: FARALLON 6" LED GLASS DOWNLIGHT CYLINDRICAL FROSTED, QUADRATE ETCHED GLASS KIT.
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

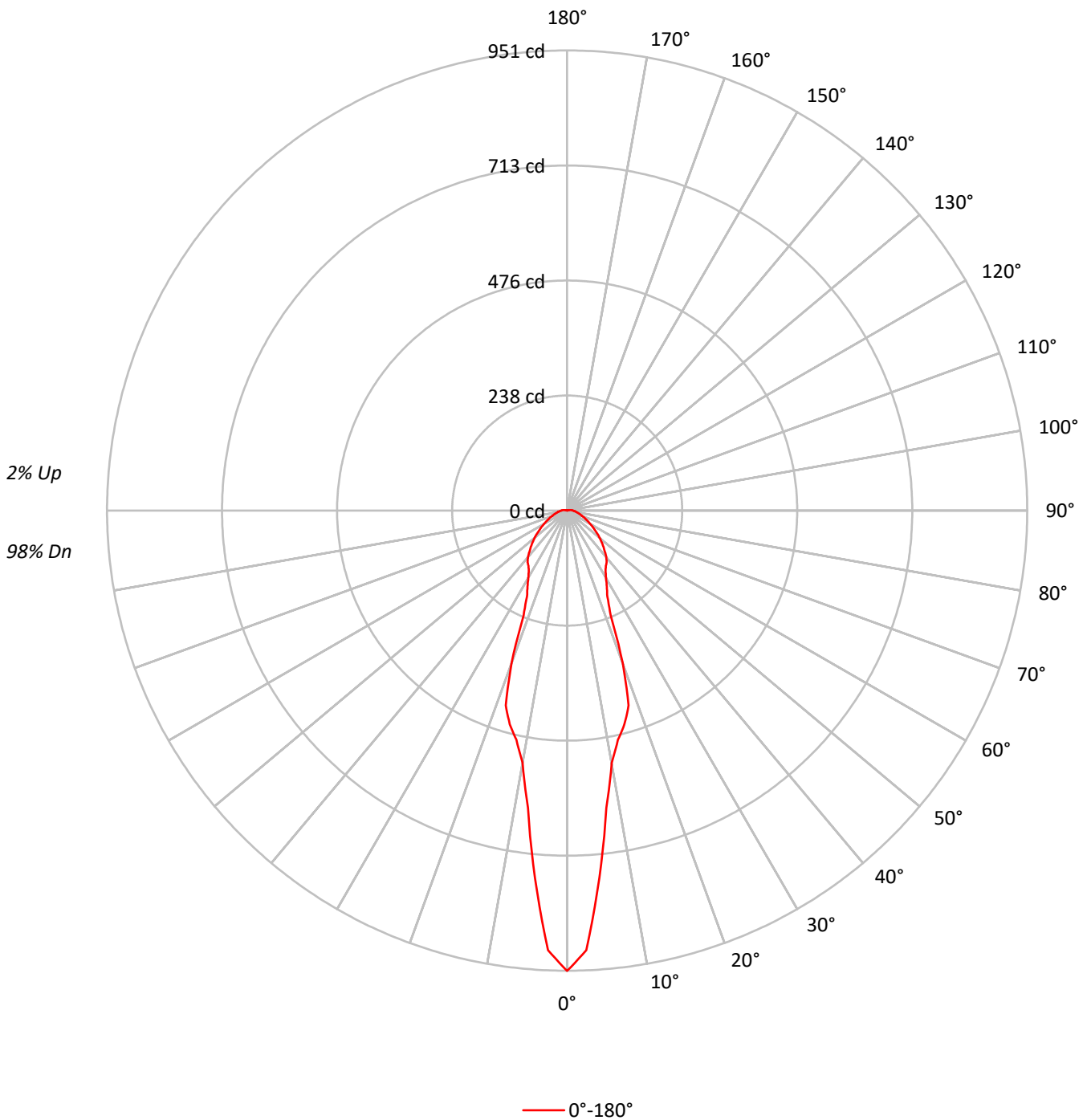
Lumens per Lamp: N/A
Luminaire Lumens: 622.0 lumens
Efficiency: N/A
Efficacy: 62.8 lumens/watt
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.54
Luminous Opening: Vertical Cylinder (Dia: 0.46' x H: 0.49')
CIE Type: Direct

Input Watts (W): 9.9
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	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°	62063
5°	44585
10°	28287
15°	22647
20°	15580
25°	8638
30°	6773
35°	5687
40°	4996
45°	4144
50°	3404
55°	2694
60°	2146
65°	1687
70°	1345
75°	1083
80°	875
85°	724

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4144 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.1	10.5
10°-20°	124.9	20.1
20°-30°	97.0	15.6
30°-40°	88.2	14.2
40°-50°	81.9	13.2
50°-60°	63.0	10.1
60°-70°	43.1	6.9
70°-80°	28.0	4.5
80°-90°	17.4	2.8
90°-100°	10.1	1.6
100°-110°	3.2	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°	287.0	46.1
0°-40°	375.3	60.3
0°-60°	520.1	83.6
0°-90°	608.6	97.8
90°-120°	13.4	2.2
90°-150°	13.4	2.2
90°-180°	13.0	2.1
0°-180°	622.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	951	
5°	762	65
15°	458	125
25°	196	97
35°	139	88
45°	106	82
55°	70	63
65°	43	43
75°	26	28
85°	16	14
90°	12	7
95°	9	7
105°	3	3
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°	951.3
2.5°	909.2
5°	761.8
7.5°	619.4
10°	529.4
12.5°	485.1
15°	457.5
17.5°	421.9
20°	335.5
22.5°	234.6
25°	196.1
27.5°	177.2
30°	160.5
32.5°	147.4
35°	139.4
37.5°	134.3
40°	125.6
42.5°	115.5
45°	106.0
47.5°	96.6
50°	87.9
52.5°	78.4
55°	69.7
57.5°	62.5
60°	55.2
62.5°	48.7
65°	42.8
67.5°	38.5
70°	33.4
72.5°	29.8
75°	26.1
77.5°	23.2
80°	20.3
82.5°	18.2
85°	16.0
87.5°	13.8
90°	11.6
92.5°	10.9
95°	9.4
97.5°	8.0
100°	5.8
102.5°	4.4
105°	2.9
107.5°	1.5
110°	0.7

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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)