

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: P702709

Luminaire Tested: 340-6C-40-D010 / 340-EU4C-3040-9027-4LBW1LI-FF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702709
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-10)
Test Lab: INNOVATION CENTER
Issue Date: 8/30/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 340-6C-40-D010 / 340-EU4C-3040-9027-4LBW1LI-FF
Description: FARALLON 6" LED GLASS DOWNLIGHT. FLARED FROSTED GLASS KIT.
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

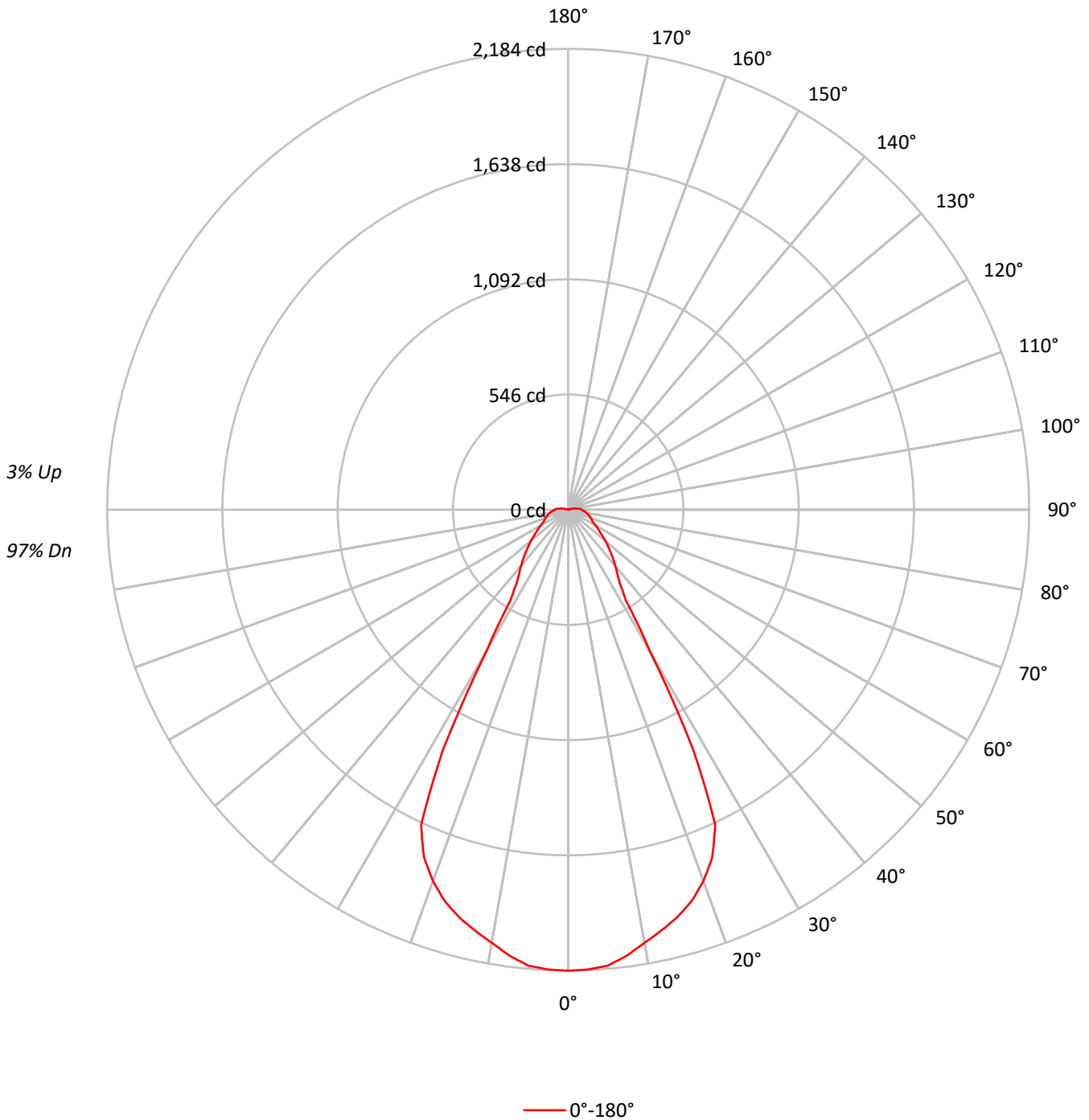
Lumens per Lamp: N/A
Luminaire Lumens: 2515.9 lumens
Efficiency: N/A
Efficacy: 53.5 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.81
Luminous Opening: Vertical Cylinder (Dia: 0.46' x H: 0.49')
CIE Type: Direct

Input Watts (W): 47
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	118	118	118	118	115	115	115	115	110	110	110		104	104	104		99	99	99	97
1	110	106	102	99	107	103	100	97	99	96	93		94	92	90		90	89	87	85
2	102	96	90	86	100	94	89	84	90	86	82		86	83	80		83	80	78	76
3	96	87	81	76	93	86	80	75	82	77	73		80	75	72		77	73	70	68
4	90	80	73	68	88	79	72	67	76	71	66		74	69	65		71	67	64	62
5	85	74	67	62	83	73	66	61	71	65	61		69	64	60		67	62	59	57
6	80	69	62	57	78	68	61	56	66	60	56		64	59	55		63	58	54	53
7	75	64	57	52	74	64	57	52	62	56	52		60	55	51		59	54	51	49
8	71	60	53	49	70	60	53	48	58	52	48		57	52	48		56	51	47	46
9	68	57	50	45	66	56	50	45	55	49	45		54	48	45		53	48	44	43
10	64	53	47	43	63	53	47	42	52	46	42		51	46	42		50	45	42	40

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	142518
5°	126931
10°	111339
15°	98930
20°	86958
25°	72619
30°	32590
35°	17362
40°	13794
45°	11091
50°	8911
55°	7067
60°	5883
65°	4970
70°	4571
75°	4186
80°	3807
85°	3425

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11091 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.1	8.1
10°-20°	561.4	22.3
20°-30°	684.8	27.2
30°-40°	289.9	11.5
40°-50°	220.0	8.7
50°-60°	166.5	6.6
60°-70°	127.3	5.1
70°-80°	106.6	4.2
80°-90°	82.5	3.3
90°-100°	55.1	2.2
100°-110°	16.4	0.7
110°-120°	1.2	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°	1450.3	57.6
0°-40°	1740.3	69.2
0°-60°	2126.8	84.5
0°-90°	2443.3	97.1
90°-120°	72.7	2.9
90°-150°	72.7	2.9
90°-180°	73.0	2.9
0°-180°	2515.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2184	
5°	2169	204
15°	1998	561
25°	1649	685
35°	426	290
45°	284	220
55°	183	167
65°	126	127
75°	101	107
85°	76	64
90°	63	35
95°	54	38
105°	13	16
115°	0	1
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°	2184.5
2.5°	2181.4
5°	2168.8
7.5°	2130.9
10°	2083.7
12.5°	2042.7
15°	1998.5
17.5°	1945.0
20°	1872.5
22.5°	1784.2
25°	1648.6
27.5°	1286.1
30°	772.3
32.5°	507.5
35°	425.6
37.5°	381.4
40°	346.8
42.5°	315.2
45°	283.7
47.5°	255.3
50°	230.1
52.5°	204.9
55°	182.8
57.5°	167.1
60°	151.3
62.5°	135.5
65°	126.1
67.5°	119.8
70°	113.5
72.5°	107.2
75°	100.9
77.5°	94.6
80°	88.3
82.5°	82.0
85°	75.7
87.5°	69.4
90°	63.0
92.5°	59.9
95°	53.6
97.5°	41.0
100°	31.5
102.5°	22.1
105°	12.6
107.5°	9.5
110°	3.2

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	3.2
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)