

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: P702401

Luminaire Tested: 340-6C-10-D010 / 340-EU4C-1020-9050-4LBW1LI-FF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702401
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-10-D010 / 340-EU4C-1020-9050-4LBW1LI-FF
Description: FARALLON 6" LED GLASS DOWNLIGHT. FLARED FROSTED GLASS KIT.
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

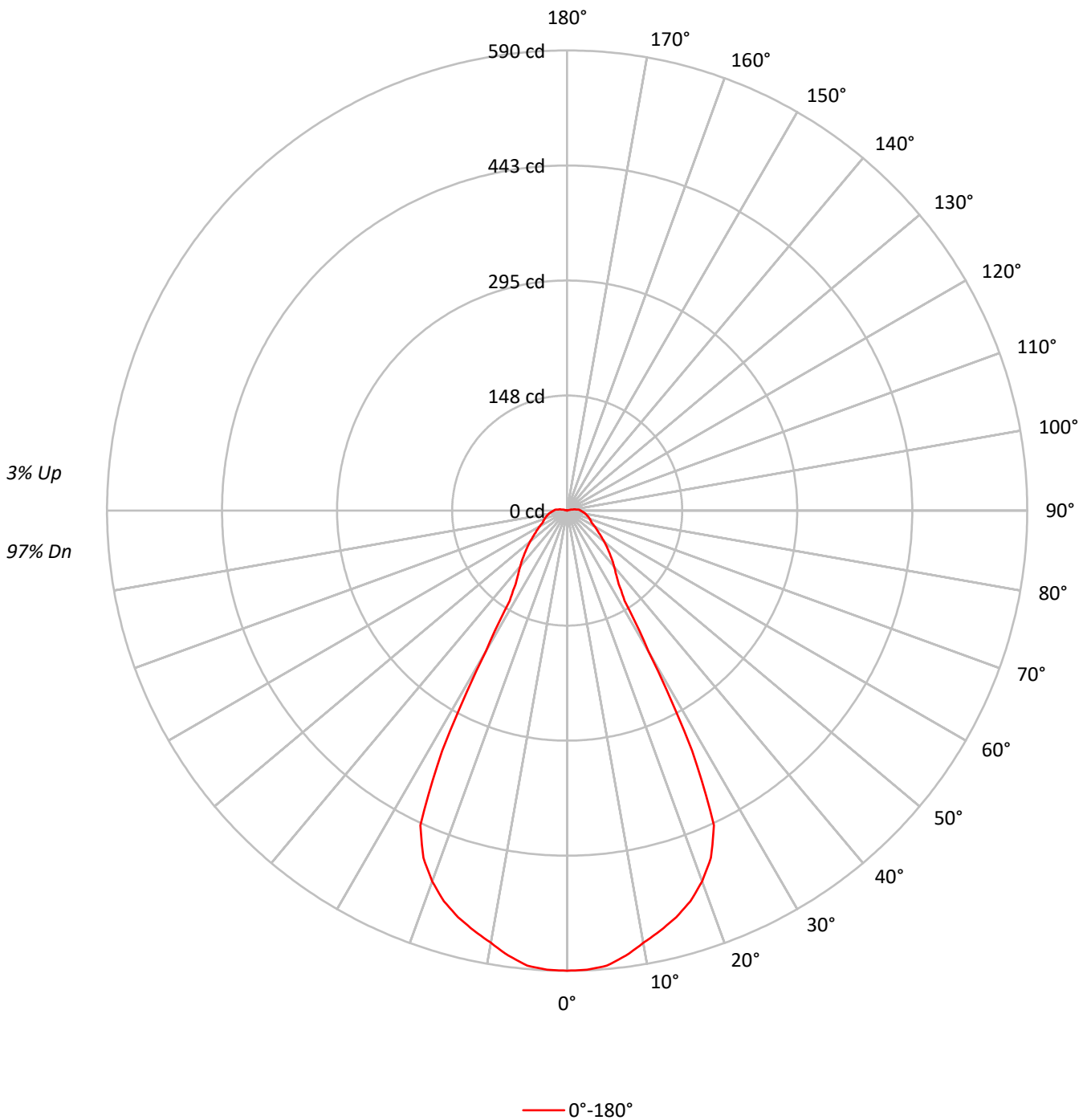
Lumens per Lamp: N/A
Luminaire Lumens: 679.5 lumens
Efficiency: N/A
Efficacy: 69.3 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.81
Luminous Opening: Vertical Cylinder (Dia: 0.46' x H: 0.49')
CIE Type: Direct

Input Watts (W): 9.8
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	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	83	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°	38492
5°	34284
10°	30072
15°	26721
20°	23484
25°	19615
30°	8803
35°	4687
40°	3727
45°	2995
50°	2409
55°	1910
60°	1590
65°	1344
70°	1236
75°	1128
80°	1026
85°	923

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2995 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.1	8.1
10°-20°	151.6	22.3
20°-30°	185.0	27.2
30°-40°	78.3	11.5
40°-50°	59.4	8.7
50°-60°	45.0	6.6
60°-70°	34.4	5.1
70°-80°	28.8	4.2
80°-90°	22.2	3.3
90°-100°	14.9	2.2
100°-110°	4.4	0.7
110°-120°	0.3	0.1
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°	391.7	57.6
0°-40°	470.0	69.2
0°-60°	574.4	84.5
0°-90°	659.9	97.1
90°-120°	19.7	2.9
90°-150°	19.7	2.9
90°-180°	20.0	2.9
0°-180°	679.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	590	
5°	586	55
15°	540	152
25°	445	185
35°	115	78
45°	77	59
55°	49	45
65°	34	34
75°	27	29
85°	20	17
90°	17	9
95°	14	10
105°	3	4
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°	590.0
2.5°	589.2
5°	585.8
7.5°	575.6
10°	562.8
12.5°	551.7
15°	539.8
17.5°	525.3
20°	505.7
22.5°	481.9
25°	445.3
27.5°	347.4
30°	208.6
32.5°	137.1
35°	114.9
37.5°	103.0
40°	93.7
42.5°	85.1
45°	76.6
47.5°	69.0
50°	62.2
52.5°	55.3
55°	49.4
57.5°	45.1
60°	40.9
62.5°	36.6
65°	34.1
67.5°	32.4
70°	30.7
72.5°	28.9
75°	27.2
77.5°	25.5
80°	23.8
82.5°	22.1
85°	20.4
87.5°	18.7
90°	17.0
92.5°	16.2
95°	14.5
97.5°	11.1
100°	8.5
102.5°	6.0
105°	3.4
107.5°	2.6
110°	0.9

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	0.9
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)