

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: P702198

Luminaire Tested: 340-4C-40-D010 / 340-EU4C-3040-9024-4LBW1LI-FF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702198
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-2)
Test Lab: INNOVATION CENTER
Issue Date: 8/30/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 340-4C-40-D010 / 340-EU4C-3040-9024-4LBW1LI-FF
Description: FARALLON 4" LED GLASS DOWNLIGHT. FLARED FROSTED GLASS KIT.
Light Source: 2400K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

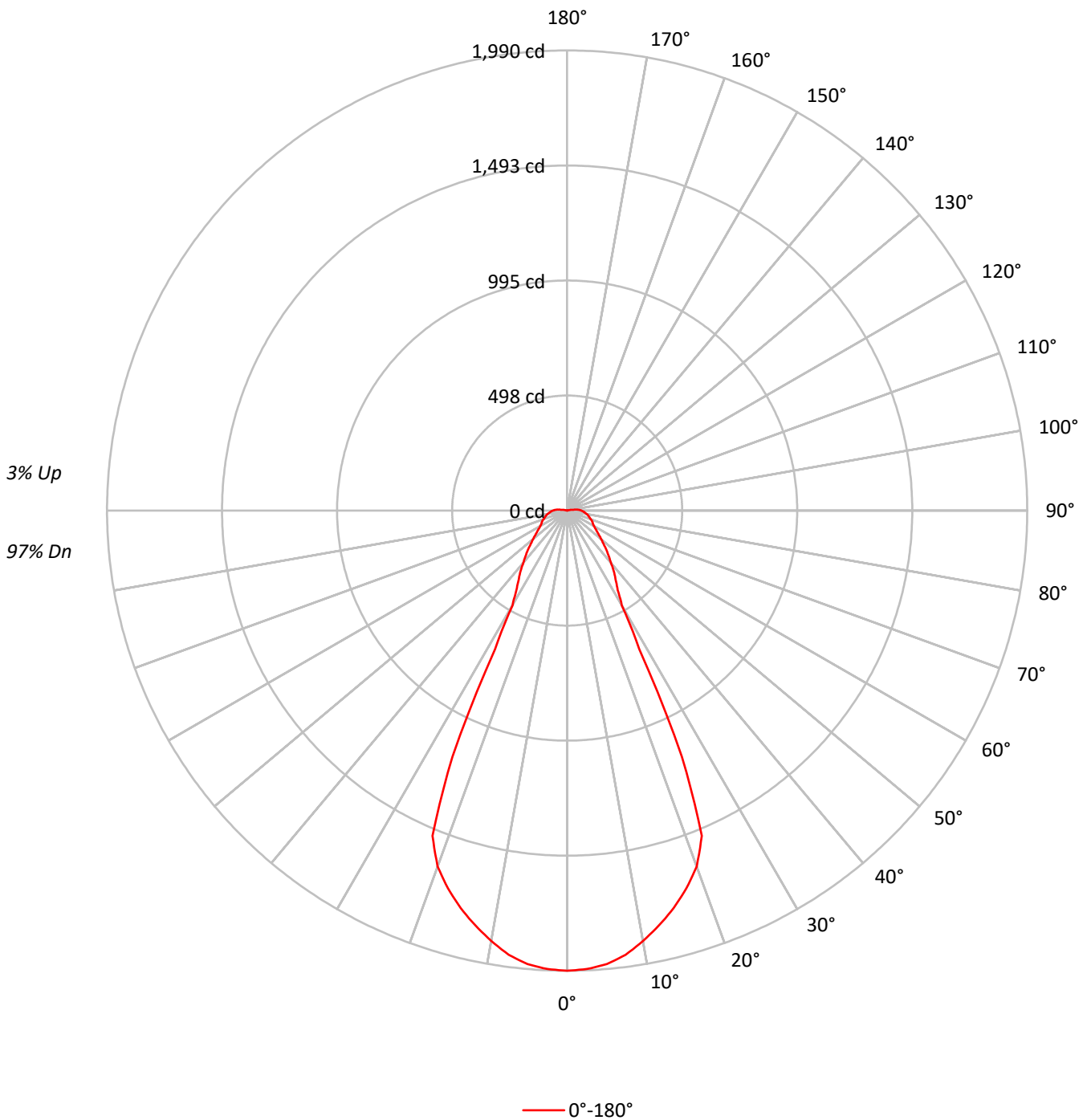
Lumens per Lamp: N/A
Luminaire Lumens: 2095.4 lumens
Efficiency: N/A
Efficacy: 44.6 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.73
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

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		100	100	100	97
1	109	105	102	98	107	103	99	96	98	95	93		94	92	90		90	88	86	84
2	102	95	89	85	99	93	88	83	89	85	81		86	82	79		82	80	77	75
3	95	87	80	75	93	85	79	74	82	77	72		79	75	71		76	73	69	67
4	89	80	73	67	87	78	72	67	76	70	65		73	68	64		71	67	63	61
5	84	74	66	61	82	73	66	61	70	64	60		68	63	59		66	62	58	56
6	79	69	61	56	78	68	61	56	66	60	55		64	59	55		62	58	54	52
7	75	64	57	52	73	63	56	52	62	56	51		60	55	51		59	54	50	49
8	71	60	53	48	70	59	53	48	58	52	48		57	51	47		55	51	47	45
9	68	57	50	45	66	56	50	45	55	49	45		54	48	44		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°	230795
5°	199588
10°	171310
15°	146874
20°	124938
25°	83928
30°	32005
35°	23638
40°	18385
45°	14544
50°	11453
55°	9312
60°	7894
65°	7150
70°	6454
75°	5944
80°	5449
85°	4800

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14544 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.4	8.8
10°-20°	499.2	23.8
20°-30°	493.8	23.6
30°-40°	231.6	11.1
40°-50°	184.9	8.8
50°-60°	142.8	6.8
60°-70°	119.9	5.7
70°-80°	102.8	4.9
80°-90°	80.3	3.8
90°-100°	46.3	2.2
100°-110°	8.4	0.4
110°-120°	0.0	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°	1178.4	56.2
0°-40°	1410.0	67.3
0°-60°	1737.7	82.9
0°-90°	2040.6	97.4
90°-120°	54.7	2.6
90°-150°	54.7	2.6
90°-180°	55.0	2.6
0°-180°	2095.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1990	
5°	1969	185
15°	1780	499
25°	1175	494
35°	365	232
45°	239	185
55°	158	143
65°	121	120
75°	97	103
85°	74	63
90°	60	34
95°	45	30
105°	5	8
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°	1989.9
2.5°	1984.6
5°	1968.9
7.5°	1937.3
10°	1890.0
12.5°	1837.4
15°	1779.6
17.5°	1713.9
20°	1637.7
22.5°	1522.0
25°	1175.0
27.5°	675.6
30°	473.2
32.5°	407.4
35°	365.4
37.5°	331.2
40°	294.4
42.5°	265.5
45°	239.2
47.5°	212.9
50°	191.9
52.5°	173.5
55°	157.7
57.5°	144.6
60°	134.1
62.5°	126.2
65°	120.9
67.5°	115.7
70°	107.8
72.5°	102.5
75°	97.3
77.5°	92.0
80°	86.7
82.5°	78.9
85°	73.6
87.5°	68.3
90°	60.5
92.5°	55.2
95°	44.7
97.5°	28.9
100°	21.0
102.5°	13.1
105°	5.3
107.5°	2.6
110°	0.0

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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)