

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: P702156

Luminaire Tested: 340-4C-35-D010 / 340-EU4C-3040-9030-4LBW1LI-FF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702156
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-35-D010 / 340-EU4C-3040-9030-4LBW1LI-FF
Description: FARALLON 4" LED GLASS DOWNLIGHT. FLARED FROSTED GLASS KIT.
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

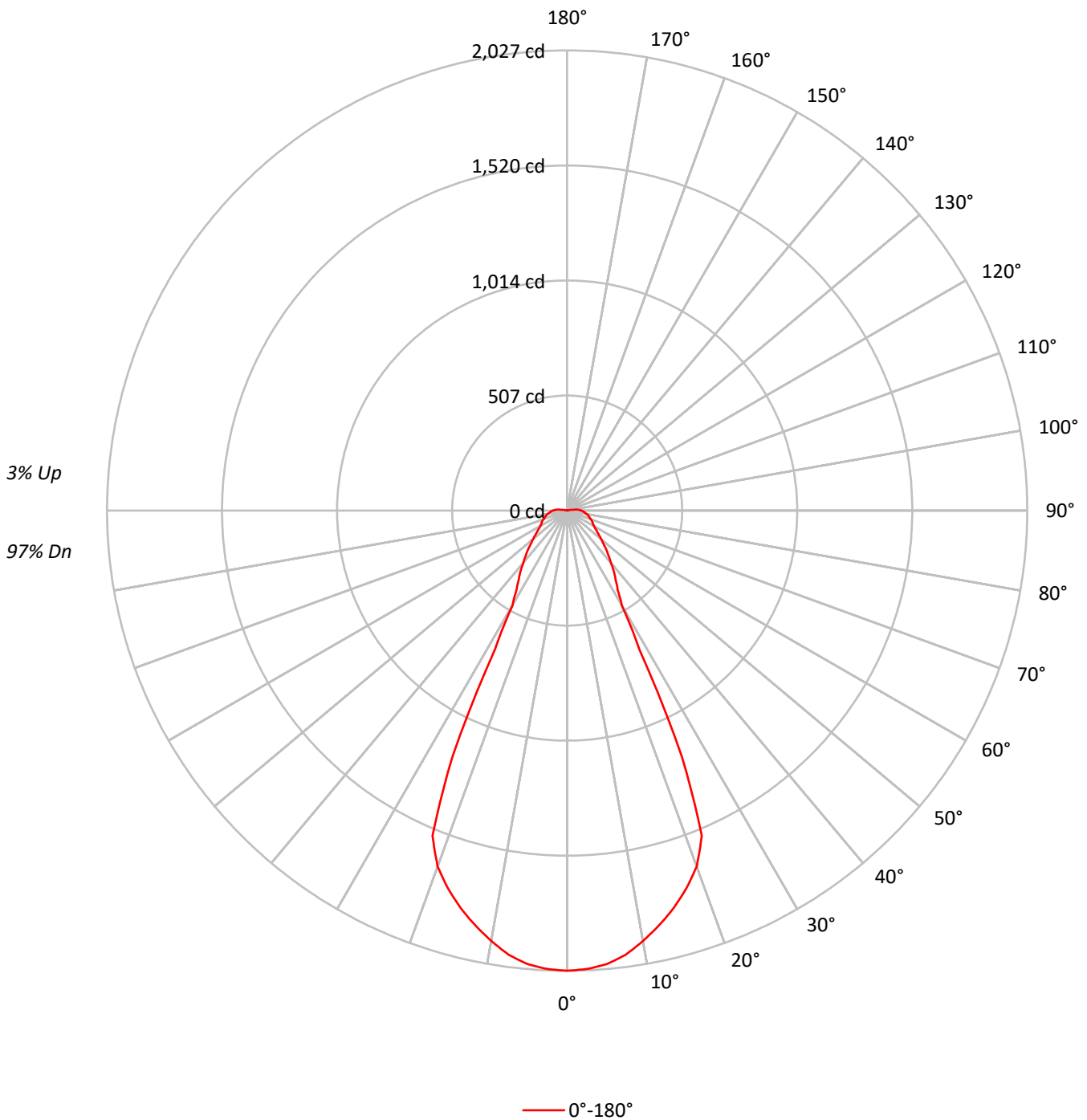
Lumens per Lamp: N/A
Luminaire Lumens: 2134.4 lumens
Efficiency: N/A
Efficacy: 52.8 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.73
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 40.4
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°	235086
5°	203298
10°	174491
15°	149606
20°	127257
25°	85493
30°	32600
35°	24078
40°	18728
45°	14818
50°	11668
55°	9489
60°	8041
65°	7286
70°	6574
75°	6054
80°	5556
85°	4891

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14818 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.9	8.8
10°-20°	508.4	23.8
20°-30°	503.0	23.6
30°-40°	235.9	11.1
40°-50°	188.4	8.8
50°-60°	145.5	6.8
60°-70°	122.1	5.7
70°-80°	104.7	4.9
80°-90°	81.8	3.8
90°-100°	47.2	2.2
100°-110°	8.6	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°	1200.3	56.2
0°-40°	1436.2	67.3
0°-60°	1770.0	82.9
0°-90°	2078.6	97.4
90°-120°	55.8	2.6
90°-150°	55.8	2.6
90°-180°	56.0	2.6
0°-180°	2134.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2027	
5°	2006	189
15°	1813	508
25°	1197	503
35°	372	236
45°	244	188
55°	161	145
65°	123	122
75°	99	105
85°	75	64
90°	62	34
95°	46	31
105°	5	9
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°	2026.9
2.5°	2021.5
5°	2005.5
7.5°	1973.3
10°	1925.1
12.5°	1871.6
15°	1812.7
17.5°	1745.7
20°	1668.1
22.5°	1550.3
25°	1196.9
27.5°	688.1
30°	482.0
32.5°	415.0
35°	372.2
37.5°	337.4
40°	299.9
42.5°	270.4
45°	243.7
47.5°	216.9
50°	195.5
52.5°	176.7
55°	160.7
57.5°	147.3
60°	136.6
62.5°	128.5
65°	123.2
67.5°	117.8
70°	109.8
72.5°	104.4
75°	99.1
77.5°	93.7
80°	88.4
82.5°	80.3
85°	75.0
87.5°	69.6
90°	61.6
92.5°	56.2
95°	45.5
97.5°	29.5
100°	21.4
102.5°	13.4
105°	5.4
107.5°	2.7
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)