

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: P702170

Luminaire Tested: 340-4C-35-D010 / 340-EU4C-3040-9040-4LBW1LI-FF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702170
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-3040-9040-4LBW1LI-FF
Description: FARALLON 4" LED GLASS DOWNLIGHT. FLARED FROSTED GLASS KIT.
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

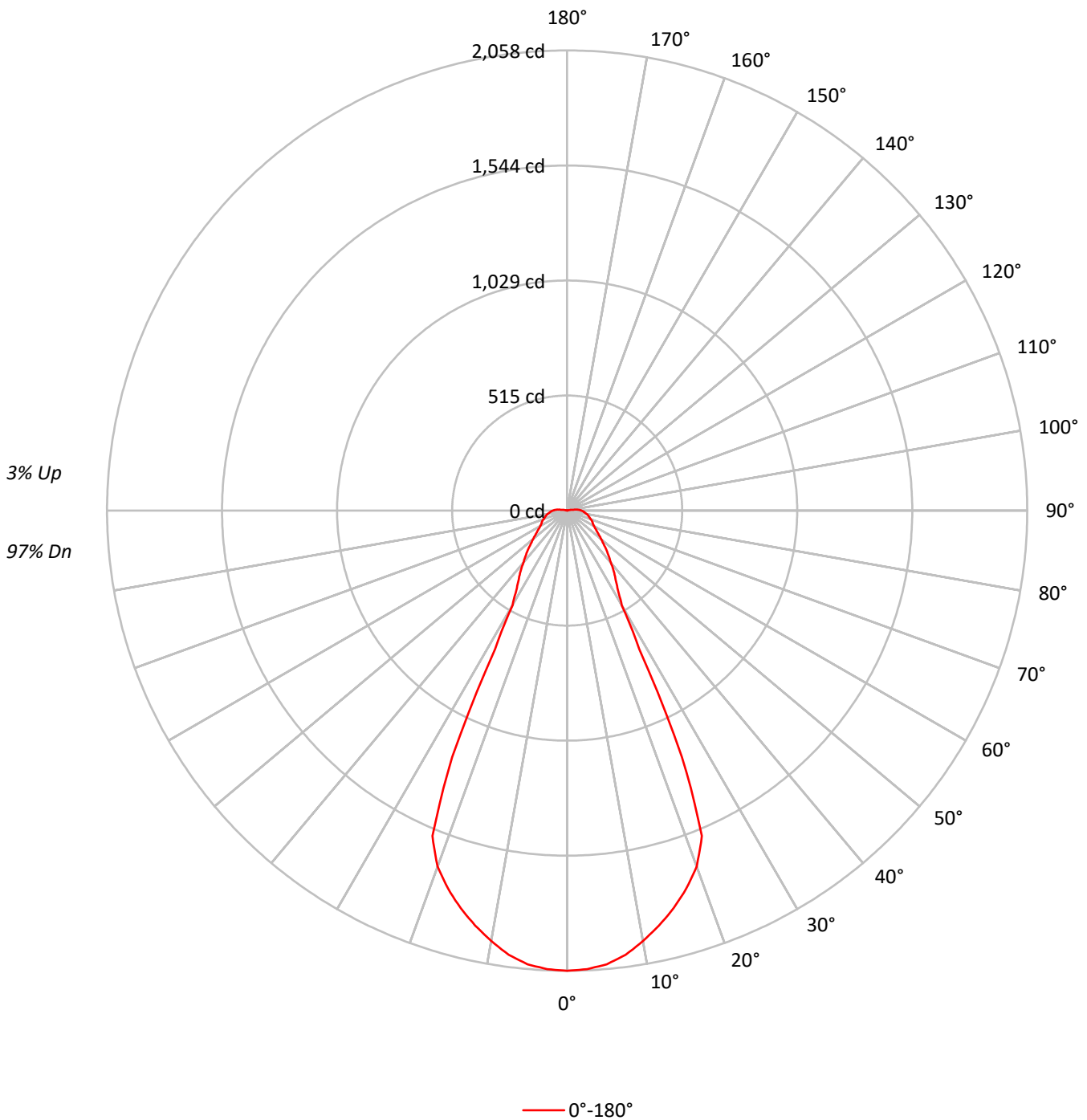
Lumens per Lamp: N/A
Luminaire Lumens: 2167.2 lumens
Efficiency: N/A
Efficacy: 53.6 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.73
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P702170

CATALOG NUMBER: 340-4C-35-D010 / 340-EU4C-3040-9040-4LBW1LI-FF

Luminous Intensity Polar Plot



TEST NUMBER: P702170

CATALOG NUMBER: 340-4C-35-D010 / 340-EU4C-3040-9040-4LBW1LI-FF

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°	238717
5°	206440
10°	177192
15°	151917
20°	129225
25°	86814
30°	33100
35°	24447
40°	19015
45°	15043
50°	11847
55°	9631
60°	8165
65°	7398
70°	6675
75°	6145
80°	5637
85°	4963

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15043 cd/sqm

TEST NUMBER: P702170

CATALOG NUMBER: 340-4C-35-D010 / 340-EU4C-3040-9040-4LBW1LI-FF

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.8	8.8
10°-20°	516.3	23.8
20°-30°	510.7	23.6
30°-40°	239.5	11.1
40°-50°	191.3	8.8
50°-60°	147.7	6.8
60°-70°	124.0	5.7
70°-80°	106.3	4.9
80°-90°	83.0	3.8
90°-100°	47.9	2.2
100°-110°	8.7	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°	1218.8	56.2
0°-40°	1458.4	67.3
0°-60°	1797.3	82.9
0°-90°	2110.6	97.4
90°-120°	56.6	2.6
90°-150°	56.6	2.6
90°-180°	57.0	2.6
0°-180°	2167.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2058	
5°	2036	192
15°	1841	516
25°	1215	511
35°	378	240
45°	247	191
55°	163	148
65°	125	124
75°	101	106
85°	76	65
90°	62	35
95°	46	32
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

TEST NUMBER: P702170

CATALOG NUMBER: 340-4C-35-D010 / 340-EU4C-3040-9040-4LBW1LI-FF

CANDELA DISTRIBUTION (FULL):

0°	
0°	2058.2
2.5°	2052.8
5°	2036.5
7.5°	2003.8
10°	1954.9
12.5°	1900.5
15°	1840.7
17.5°	1772.7
20°	1693.9
22.5°	1574.3
25°	1215.4
27.5°	698.8
30°	489.4
32.5°	421.4
35°	377.9
37.5°	342.6
40°	304.5
42.5°	274.6
45°	247.4
47.5°	220.2
50°	198.5
52.5°	179.4
55°	163.1
57.5°	149.5
60°	138.7
62.5°	130.5
65°	125.1
67.5°	119.6
70°	111.5
72.5°	106.0
75°	100.6
77.5°	95.2
80°	89.7
82.5°	81.6
85°	76.1
87.5°	70.7
90°	62.5
92.5°	57.1
95°	46.2
97.5°	29.9
100°	21.8
102.5°	13.6
105°	5.4
107.5°	2.7
110°	0.0

TEST NUMBER: P702170

CATALOG NUMBER: 340-4C-35-D010 / 340-EU4C-3040-9040-4LBW1LI-FF

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)