

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: P702051

Luminaire Tested: 340-4C-25-D010 / 340-EU4C-3040-9035-4LBW1LI-FF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702051
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-25-D010 / 340-EU4C-3040-9035-4LBW1LI-FF
Description: FARALLON 4" LED GLASS DOWNLIGHT. FLARED FROSTED GLASS KIT.
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

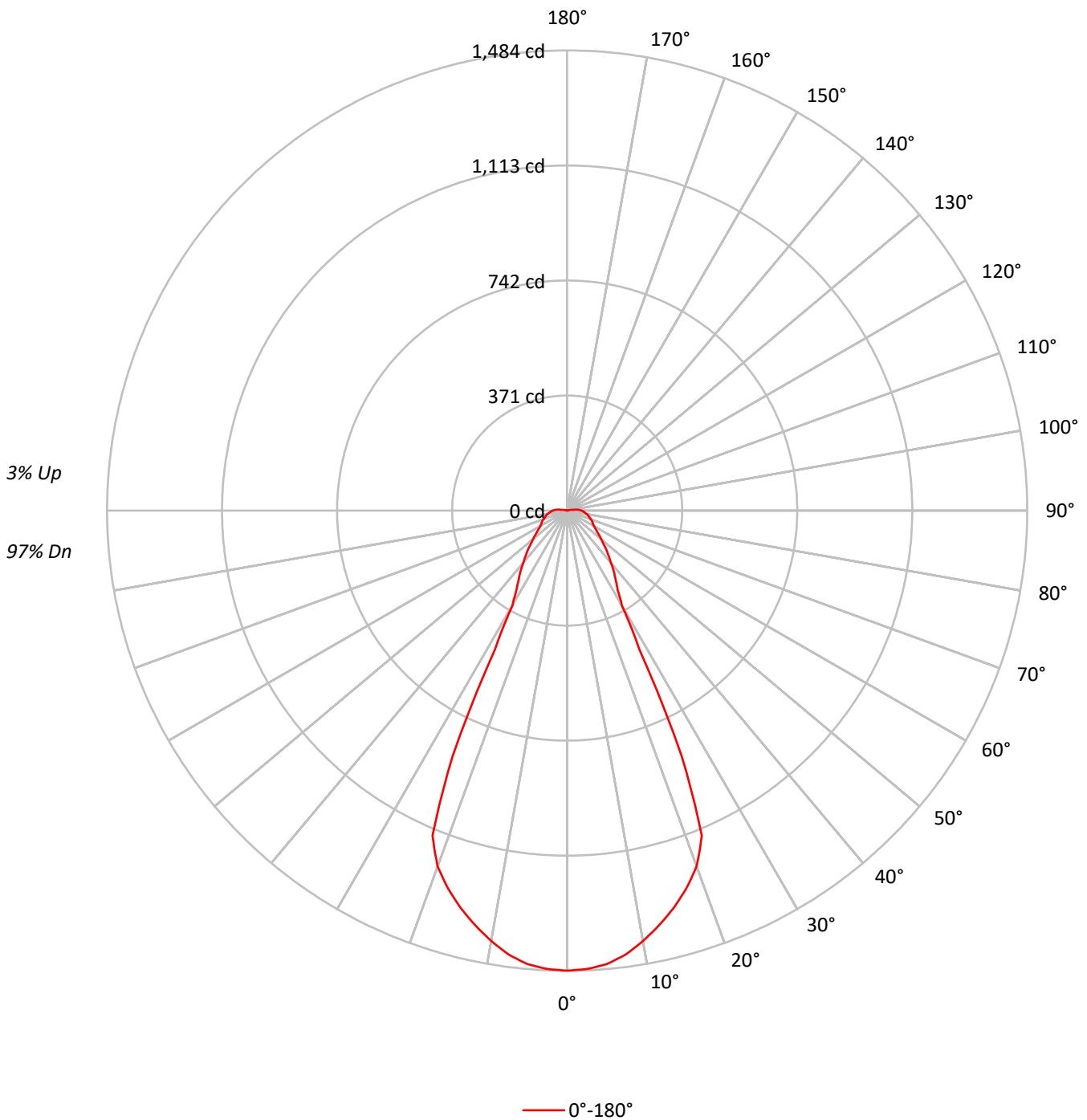
Lumens per Lamp: N/A
Luminaire Lumens: 1562.4 lumens
Efficiency: N/A
Efficacy: 49.6 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.73
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 31.5
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°	172084
5°	148811
10°	127730
15°	109512
20°	93148
25°	62578
30°	23861
35°	17622
40°	13707
45°	10847
50°	8541
55°	6944
60°	5887
65°	5334
70°	4813
75°	4429
80°	4066
85°	3581

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10847 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.3	8.8
10°-20°	372.2	23.8
20°-30°	368.2	23.6
30°-40°	172.7	11.1
40°-50°	137.9	8.8
50°-60°	106.5	6.8
60°-70°	89.4	5.7
70°-80°	76.7	4.9
80°-90°	59.9	3.8
90°-100°	34.5	2.2
100°-110°	6.3	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°	878.6	56.2
0°-40°	1051.3	67.3
0°-60°	1295.7	82.9
0°-90°	1521.6	97.4
90°-120°	40.8	2.6
90°-150°	40.8	2.6
90°-180°	41.0	2.6
0°-180°	1562.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1484	
5°	1468	138
15°	1327	372
25°	876	368
35°	272	173
45°	178	138
55°	118	106
65°	90	89
75°	72	77
85°	55	47
90°	45	25
95°	33	23
105°	4	6
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°	1483.7
2.5°	1479.8
5°	1468.0
7.5°	1444.5
10°	1409.2
12.5°	1370.0
15°	1326.9
17.5°	1277.9
20°	1221.0
22.5°	1134.8
25°	876.1
27.5°	503.7
30°	352.8
32.5°	303.8
35°	272.4
37.5°	247.0
40°	219.5
42.5°	198.0
45°	178.4
47.5°	158.8
50°	143.1
52.5°	129.4
55°	117.6
57.5°	107.8
60°	100.0
62.5°	94.1
65°	90.2
67.5°	86.2
70°	80.4
72.5°	76.4
75°	72.5
77.5°	68.6
80°	64.7
82.5°	58.8
85°	54.9
87.5°	51.0
90°	45.1
92.5°	41.2
95°	33.3
97.5°	21.6
100°	15.7
102.5°	9.8
105°	3.9
107.5°	2.0
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)