

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: P702044

Luminaire Tested: 340-4C-25-D010 / 340-EU4C-3040-9030-4LBW1LI-FF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702044
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-3040-9030-4LBW1LI-FF
Description: FARALLON 4" LED GLASS DOWNLIGHT. FLARED FROSTED GLASS KIT.
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

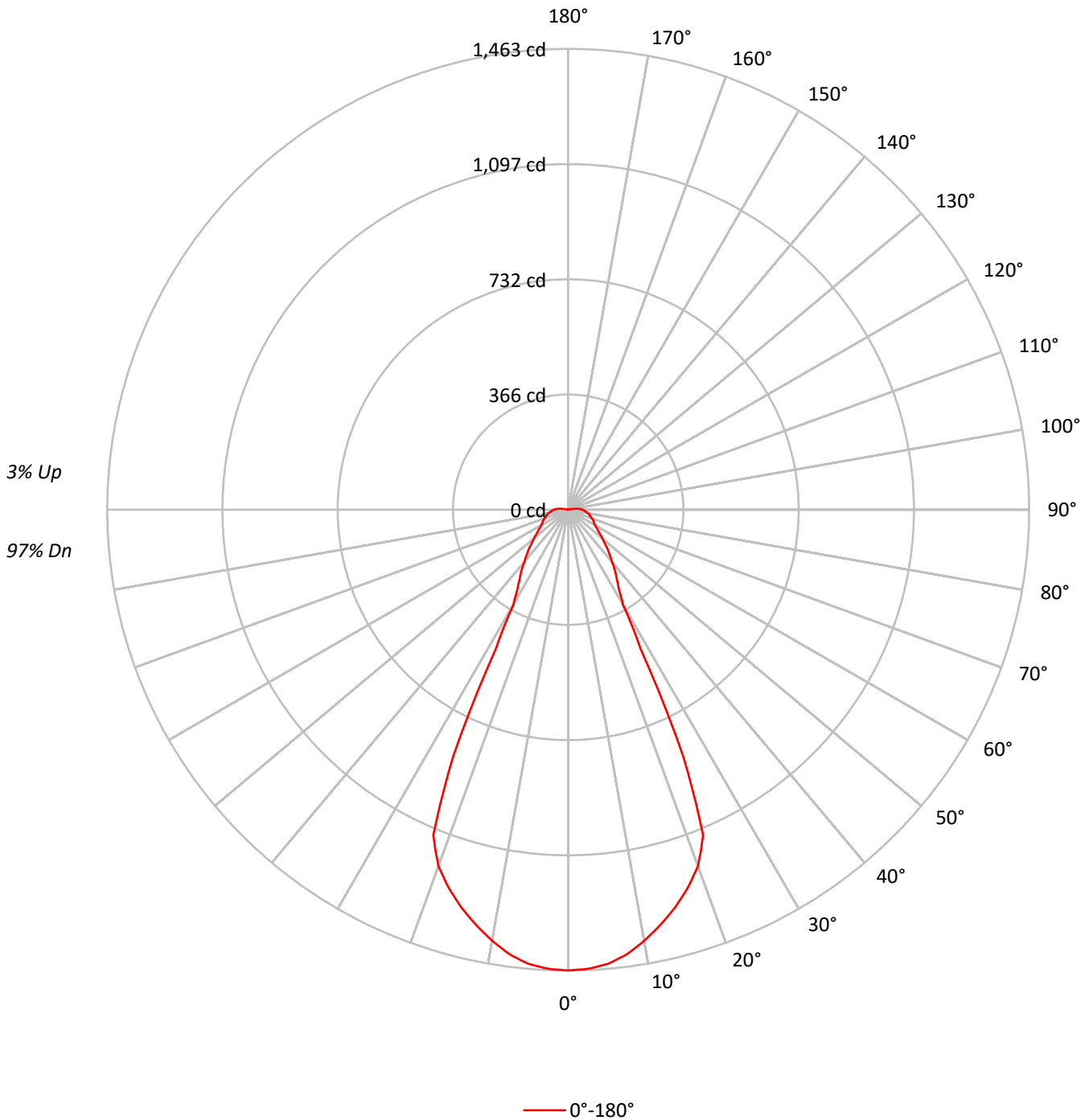
Lumens per Lamp: N/A
Luminaire Lumens: 1540.2 lumens
Efficiency: N/A
Efficacy: 48.9 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.73
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

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°	169649
5°	146703
10°	125926
15°	107960
20°	91836
25°	61693
30°	23523
35°	17376
40°	13514
45°	10689
50°	8422
55°	6844
60°	5799
65°	5257
70°	4742
75°	4368
80°	4010
85°	3528

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10689 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.3	8.8
10°-20°	366.9	23.8
20°-30°	363.0	23.6
30°-40°	170.2	11.1
40°-50°	135.9	8.8
50°-60°	104.9	6.8
60°-70°	88.1	5.7
70°-80°	75.6	4.9
80°-90°	59.0	3.8
90°-100°	34.0	2.2
100°-110°	6.2	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°	866.2	56.2
0°-40°	1036.4	67.3
0°-60°	1277.3	82.9
0°-90°	1500.0	97.4
90°-120°	40.3	2.6
90°-150°	40.3	2.6
90°-180°	40.0	2.6
0°-180°	1540.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1463	
5°	1447	136
15°	1308	367
25°	864	363
35°	269	170
45°	176	136
55°	116	105
65°	89	88
75°	72	76
85°	54	46
90°	44	25
95°	33	22
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°	1462.7
2.5°	1458.8
5°	1447.2
7.5°	1424.1
10°	1389.3
12.5°	1350.6
15°	1308.1
17.5°	1259.8
20°	1203.8
22.5°	1118.8
25°	863.7
27.5°	496.6
30°	347.8
32.5°	299.5
35°	268.6
37.5°	243.5
40°	216.4
42.5°	195.2
45°	175.8
47.5°	156.5
50°	141.1
52.5°	127.5
55°	115.9
57.5°	106.3
60°	98.5
62.5°	92.7
65°	88.9
67.5°	85.0
70°	79.2
72.5°	75.4
75°	71.5
77.5°	67.6
80°	63.8
82.5°	58.0
85°	54.1
87.5°	50.2
90°	44.4
92.5°	40.6
95°	32.8
97.5°	21.3
100°	15.5
102.5°	9.7
105°	3.9
107.5°	1.9
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)