

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: P701839

Luminaire Tested: 340-4C-08-D010 / 340-EU4C-1020-9050-4LBW1LI-CF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701839
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-4)
Test Lab: INNOVATION CENTER
Issue Date: 8/30/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 340-4C-08-D010 / 340-EU4C-1020-9050-4LBW1LI-CF
Description: FARALLON 4" LED GLASS DOWNLIGHT. CYLINDRICAL FROSTED GLASS KIT.
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

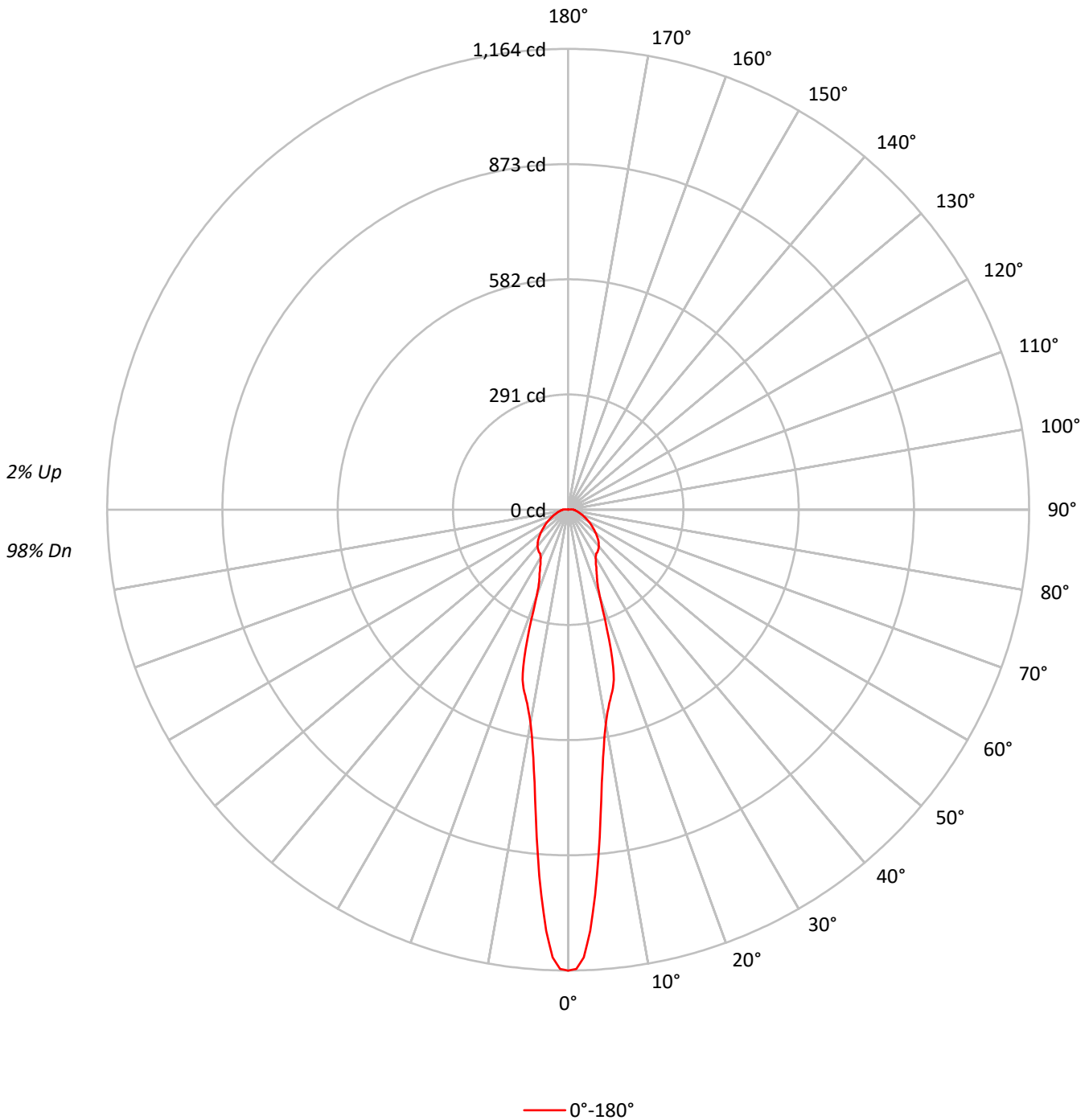
Lumens per Lamp: N/A
Luminaire Lumens: 602.8 lumens
Efficiency: N/A
Efficacy: 60.9 lumens/watt
Spacing Criteria (0/90/45): 0.3 / 0.3 / 0.45
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 9.9
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	119	119	119	119	116	116	116	116	110	110	110		105	105	105		100	100	100	98
1	109	105	101	98	106	103	99	96	98	95	92		94	91	89		90	88	86	84
2	101	94	88	83	98	92	86	82	88	83	80		85	81	77		81	78	75	73
3	94	85	78	72	91	83	76	71	80	74	70		77	72	68		74	70	67	65
4	87	77	70	64	85	76	69	63	73	67	62		71	65	61		68	64	60	58
5	82	71	63	57	80	70	62	57	67	61	56		65	60	55		63	59	55	53
6	77	65	58	52	75	64	57	52	62	56	51		61	55	51		59	54	50	48
7	72	61	53	48	71	60	53	48	58	52	47		57	51	47		55	50	46	45
8	69	57	49	44	67	56	49	44	55	48	44		53	48	43		52	47	43	41
9	65	53	46	41	64	53	46	41	52	45	41		50	45	41		49	44	40	39
10	62	50	43	39	61	50	43	39	49	43	39		48	42	38		47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	135051
5°	89135
10°	49580
15°	36719
20°	17722
25°	12071
30°	9381
35°	8377
40°	7519
45°	6506
50°	5378
55°	4364
60°	3520
65°	2791
70°	2191
75°	1765
80°	1414
85°	1148

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6506 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.9	11.9
10°-20°	113.5	18.8
20°-30°	78.9	13.1
30°-40°	80.8	13.4
40°-50°	81.9	13.6
50°-60°	66.5	11.0
60°-70°	46.9	7.8
70°-80°	30.7	5.1
80°-90°	19.3	3.2
90°-100°	10.4	1.7
100°-110°	2.0	0.3
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°	264.3	43.9
0°-40°	345.2	57.3
0°-60°	493.6	81.9
0°-90°	590.4	98.0
90°-120°	12.4	2.0
90°-150°	12.4	2.0
90°-180°	12.0	2.0
0°-180°	602.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1164	
5°	879	72
15°	445	114
25°	169	79
35°	130	81
45°	107	82
55°	74	66
65°	47	47
75°	29	31
85°	18	15
90°	13	7
95°	10	7
105°	1	2
115°	0	0
125°	0	0
135°	0	0
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1164.4
1°	1160.2
2°	1131.3
3°	1065.2
4°	975.8
5°	879.3
6°	782.2
7°	694.9
8°	632.2
9°	582.9
10°	547.0
11°	521.0
12°	499.8
13°	482.2
14°	465.3
15°	444.9
16°	412.5
17°	368.2
18°	317.5
19°	268.9
20°	232.3
21°	209.8
22°	195.0
23°	185.9
24°	177.4
25°	169.0
27.5°	150.7
30°	138.7
32.5°	131.6
35°	129.5
37.5°	125.3
40°	120.4
42.5°	114.0
45°	107.0
47.5°	98.6
50°	90.1
52.5°	81.7
55°	73.9
57.5°	66.9
60°	59.8
62.5°	52.8
65°	47.2
67.5°	41.5
70°	36.6
72.5°	32.4

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CANDELA DISTRIBUTION (continued):

	0°
75°	28.9
77.5°	25.3
80°	22.5
82.5°	19.7
85°	17.6
87.5°	15.5
90°	13.4
92.5°	12.0
95°	9.9
97.5°	7.0
100°	4.9
102.5°	2.8
105°	1.4
107.5°	0.7
110°	0.0
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)