

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: P702007

Luminaire Tested: 340-4C-20-D010 / 340-EU4C-1020-9050-4LBW1LI-CF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702007
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-20-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

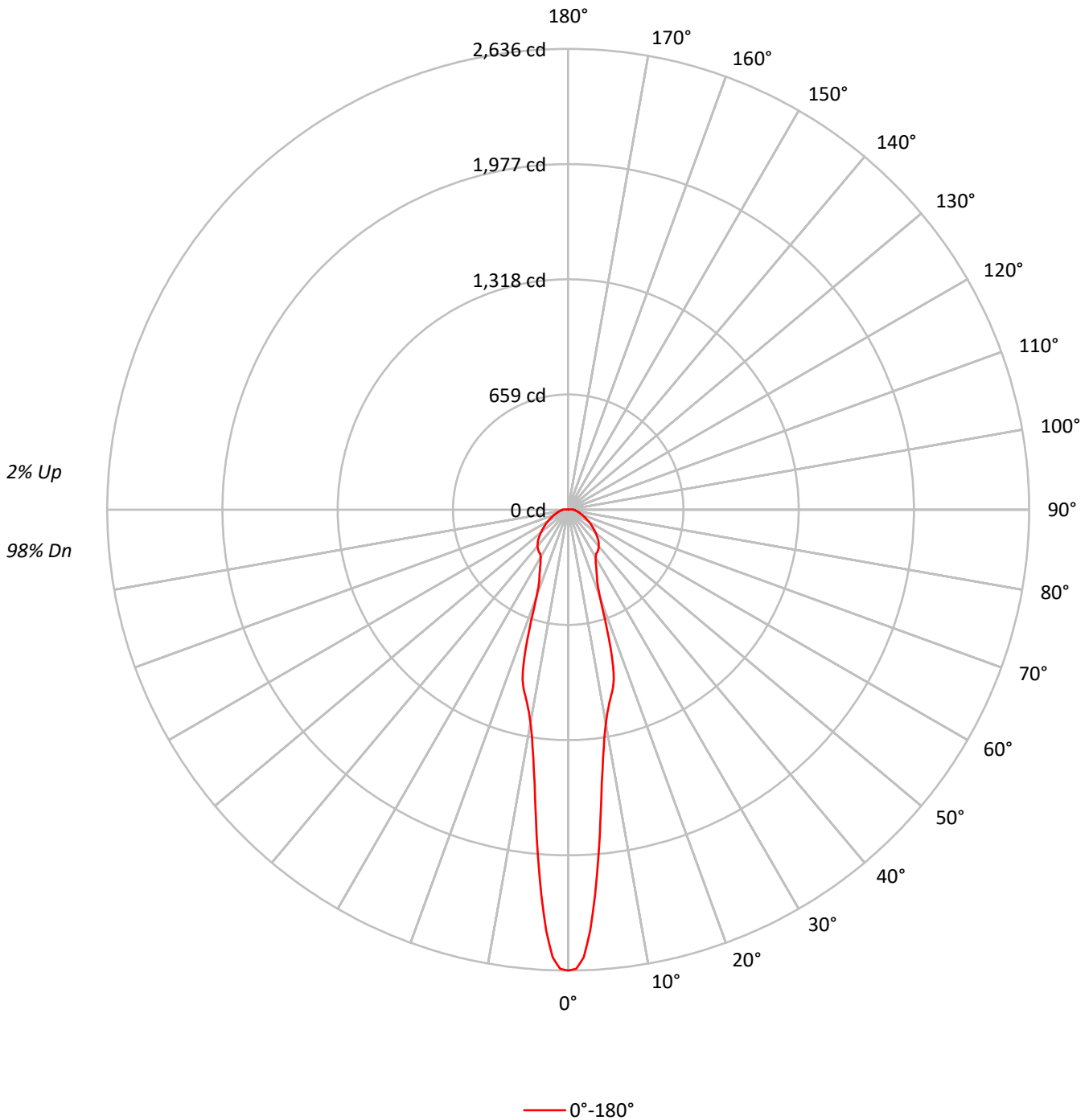
Lumens per Lamp: N/A
Luminaire Lumens: 1364.6 lumens
Efficiency: N/A
Efficacy: 62.6 lumens/watt
Spacing Criteria (0/90/45): 0.3 / 0.3 / 0.45
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 21.8
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°	305720
5°	201767
10°	112240
15°	83126
20°	40120
25°	27321
30°	21230
35°	18967
40°	17017
45°	14726
50°	12176
55°	9879
60°	7977
65°	6316
70°	4963
75°	3989
80°	3205
85°	2596

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14726 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.8	11.9
10°-20°	257.0	18.8
20°-30°	178.6	13.1
30°-40°	183.0	13.4
40°-50°	185.5	13.6
50°-60°	150.4	11.0
60°-70°	106.3	7.8
70°-80°	69.4	5.1
80°-90°	43.7	3.2
90°-100°	23.5	1.7
100°-110°	4.5	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°	598.4	43.8
0°-40°	781.4	57.3
0°-60°	1117.3	81.9
0°-90°	1336.6	97.9
90°-120°	28.0	2.1
90°-150°	28.0	2.1
90°-180°	28.0	2.1
0°-180°	1364.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2636	
5°	1990	163
15°	1007	257
25°	382	179
35°	293	183
45°	242	185
55°	167	150
65°	107	106
75°	65	69
85°	40	35
90°	30	17
95°	22	16
105°	3	4
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°	2635.9
1°	2626.3
2°	2561.0
3°	2411.2
4°	2208.8
5°	1990.4
6°	1770.5
7°	1572.9
8°	1431.1
9°	1319.5
10°	1238.3
11°	1179.3
12°	1131.5
13°	1091.6
14°	1053.4
15°	1007.2
16°	933.9
17°	833.5
18°	718.7
19°	608.8
20°	525.9
21°	474.9
22°	441.4
23°	420.7
24°	401.6
25°	382.5
27.5°	341.0
30°	313.9
32.5°	298.0
35°	293.2
37.5°	283.7
40°	272.5
42.5°	258.2
45°	242.2
47.5°	223.1
50°	204.0
52.5°	184.9
55°	167.3
57.5°	151.4
60°	135.5
62.5°	119.5
65°	106.8
67.5°	94.0
70°	82.9
72.5°	73.3

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CANDELA DISTRIBUTION (continued):

	0°
75°	65.3
77.5°	57.4
80°	51.0
82.5°	44.6
85°	39.8
87.5°	35.1
90°	30.3
92.5°	27.1
95°	22.3
97.5°	15.9
100°	11.2
102.5°	6.4
105°	3.2
107.5°	1.6
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)