

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: P701881

Luminaire Tested: 340-4C-10-D010 / 340-EU4C-1020-9035-4LBW1LI-CF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701881
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-10-D010 / 340-EU4C-1020-9035-4LBW1LI-CF
Description: FARALLON 4" LED GLASS DOWNLIGHT. CYLINDRICAL FROSTED GLASS KIT.
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

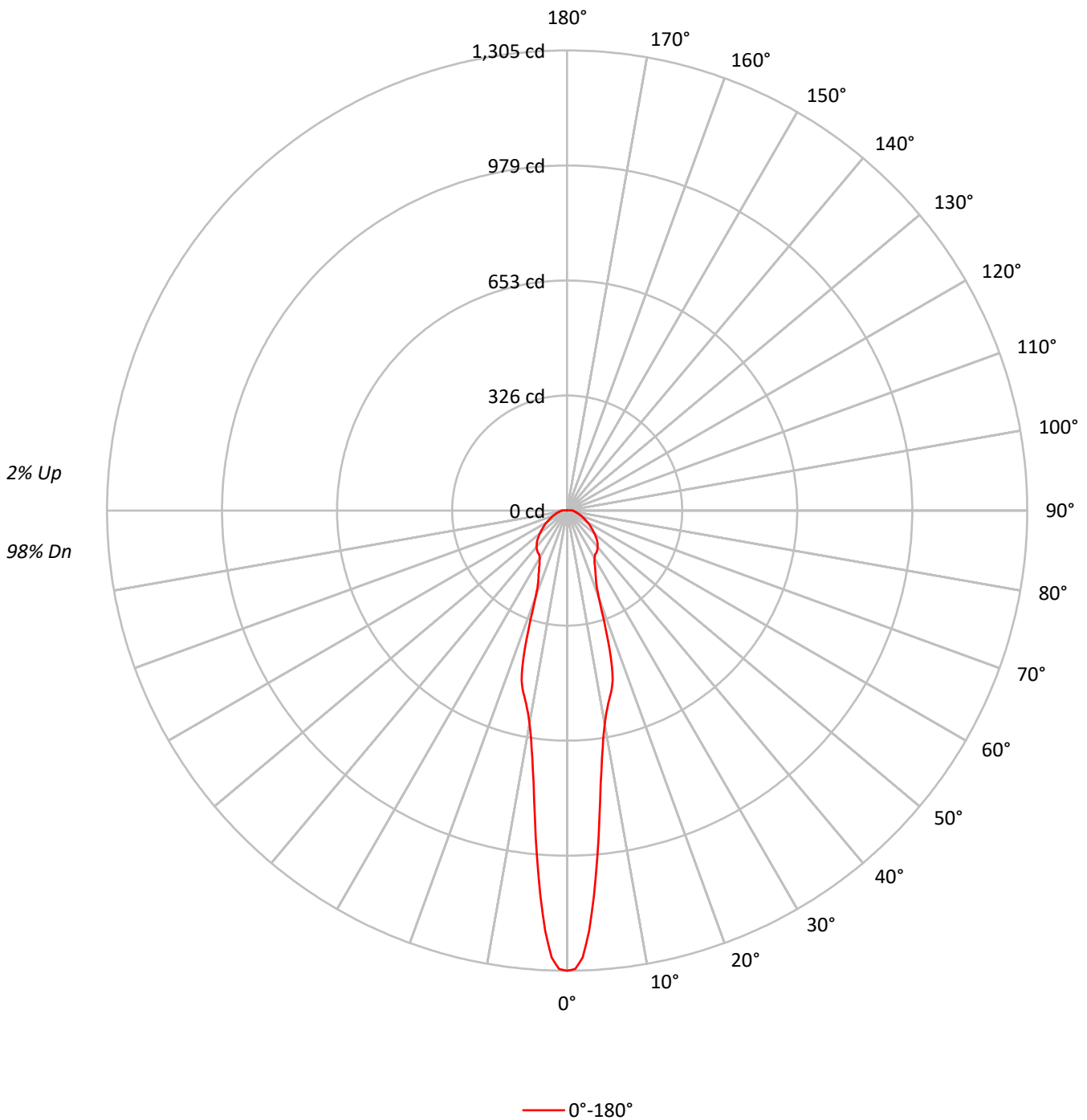
Lumens per Lamp: N/A
Luminaire Lumens: 675.6 lumens
Efficiency: N/A
Efficacy: 68.9 lumens/watt
Spacing Criteria (0/90/45): 0.3 / 0.3 / 0.45
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 9.8
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°	151358
5°	99900
10°	55571
15°	41159
20°	19866
25°	13529
30°	10510
35°	9393
40°	8424
45°	7290
50°	6028
55°	4889
60°	3950
65°	3128
70°	2455
75°	1973
80°	1584
85°	1285

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7290 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.6	11.9
10°-20°	127.2	18.8
20°-30°	88.4	13.1
30°-40°	90.6	13.4
40°-50°	91.8	13.6
50°-60°	74.5	11.0
60°-70°	52.6	7.8
70°-80°	34.3	5.1
80°-90°	21.6	3.2
90°-100°	11.6	1.7
100°-110°	2.2	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°	296.3	43.9
0°-40°	386.8	57.3
0°-60°	553.2	81.9
0°-90°	661.8	98.0
90°-120°	13.8	2.0
90°-150°	13.8	2.0
90°-180°	14.0	2.1
0°-180°	675.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1305	
5°	986	81
15°	499	127
25°	189	88
35°	145	91
45°	120	92
55°	83	74
65°	53	53
75°	32	34
85°	20	17
90°	15	8
95°	11	8
105°	2	2
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°	1305.0
1°	1300.3
2°	1267.9
3°	1193.8
4°	1093.6
5°	985.5
6°	876.6
7°	778.8
8°	708.5
9°	653.3
10°	613.1
11°	583.9
12°	560.2
13°	540.5
14°	521.5
15°	498.7
16°	462.4
17°	412.7
18°	355.8
19°	301.4
20°	260.4
21°	235.1
22°	218.6
23°	208.3
24°	198.8
25°	189.4
27.5°	168.8
30°	155.4
32.5°	147.5
35°	145.2
37.5°	140.4
40°	134.9
42.5°	127.8
45°	119.9
47.5°	110.5
50°	101.0
52.5°	91.5
55°	82.8
57.5°	75.0
60°	67.1
62.5°	59.2
65°	52.9
67.5°	46.6
70°	41.0
72.5°	36.3

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CANDELA DISTRIBUTION (continued):

	0°
75°	32.3
77.5°	28.4
80°	25.2
82.5°	22.1
85°	19.7
87.5°	17.4
90°	15.0
92.5°	13.4
95°	11.0
97.5°	7.9
100°	5.5
102.5°	3.2
105°	1.6
107.5°	0.8
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)