

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: P701889

Luminaire Tested: 340-4C-10-D010 / 340-EU4C-1020-9040-4LBW1LI-CQ

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701889
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-5)
Test Lab: INNOVATION CENTER
Issue Date: 8/30/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 340-4C-10-D010 / 340-EU4C-1020-9040-4LBW1LI-CQ
Description: FARALLON 4" LED GLASS DOWNLIGHT CYLINDRICAL FROSTED, QUADRATE ETCHED GLASS KIT.
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

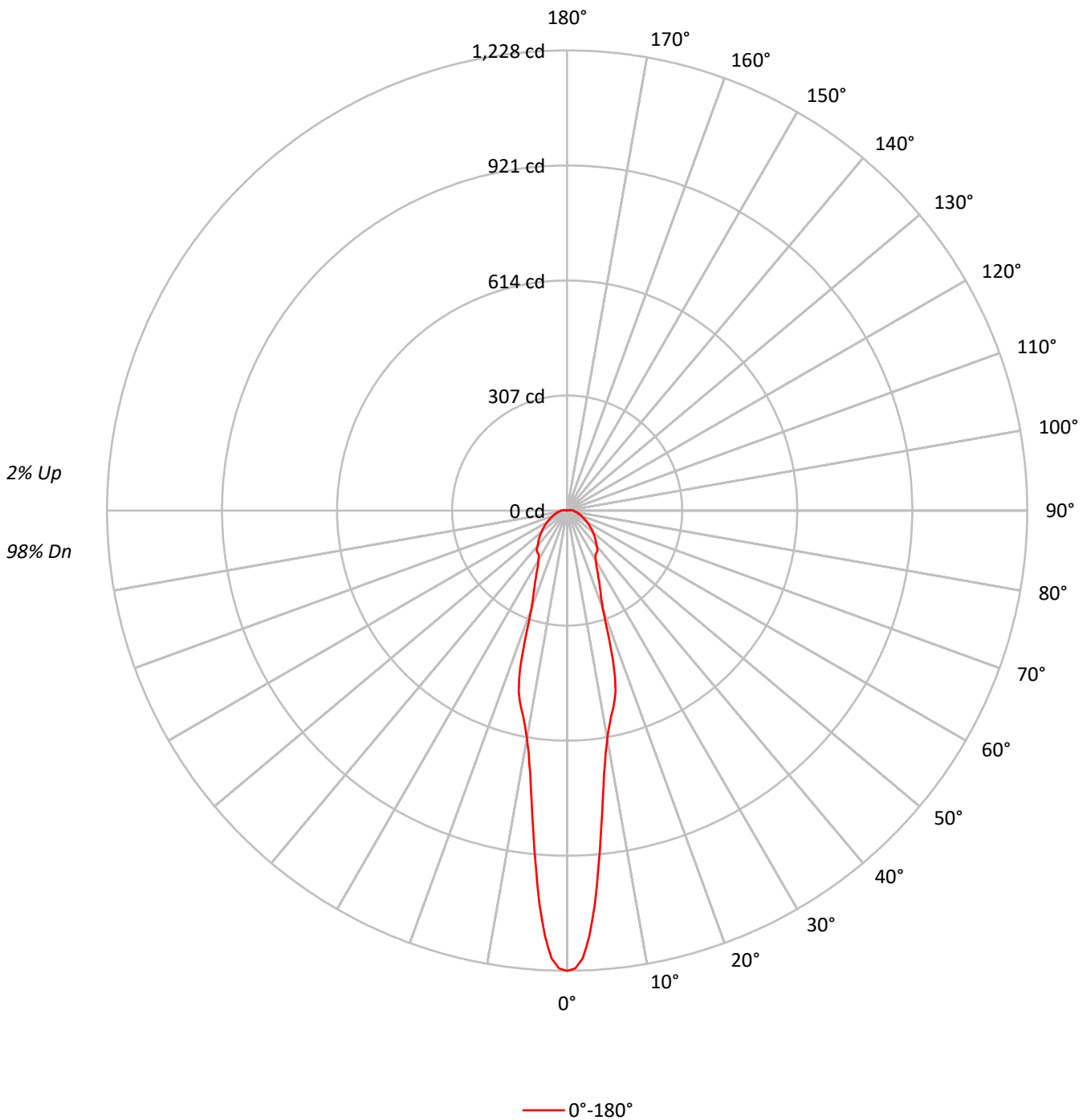
Lumens per Lamp: N/A
Luminaire Lumens: 654.5 lumens
Efficiency: N/A
Efficacy: 66.8 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.33 / 0.46
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

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	99	92	87	82	88	84	80		85	81	78		81	78	76	74
3	94	85	78	72	92	83	77	72	80	75	70		77	73	69		75	71	67	65
4	88	78	70	64	86	76	69	64	74	68	63		71	66	62		69	64	61	59
5	82	71	64	58	80	70	63	58	68	62	57		66	60	56		64	59	55	53
6	77	66	58	53	76	65	58	53	63	57	52		61	56	52		60	55	51	49
7	73	62	54	49	71	61	54	49	59	53	48		58	52	48		56	51	47	45
8	69	58	50	45	68	57	50	45	55	49	45		54	49	44		53	48	44	42
9	66	54	47	42	64	54	47	42	52	46	42		51	46	42		50	45	41	40
10	63	51	44	40	61	51	44	40	50	44	39		49	43	39		48	43	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	142451
5°	96940
10°	55880
15°	41225
20°	21223
25°	14114
30°	10314
35°	8895
40°	7650
45°	6439
50°	5378
55°	4435
60°	3626
65°	2945
70°	2365
75°	1930
80°	1590
85°	1291

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6439 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.2	12.1
10°-20°	128.9	19.7
20°-30°	92.2	14.1
30°-40°	85.9	13.1
40°-50°	81.8	12.5
50°-60°	67.3	10.3
60°-70°	49.5	7.6
70°-80°	33.8	5.2
80°-90°	21.8	3.3
90°-100°	12.0	1.8
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°	300.3	45.9
0°-40°	386.2	59.0
0°-60°	535.3	81.8
0°-90°	640.3	97.8
90°-120°	14.2	2.2
90°-150°	14.2	2.2
90°-180°	14.0	2.1
0°-180°	654.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1228	
5°	956	79
15°	500	129
25°	198	92
35°	138	86
45°	106	82
55°	75	67
65°	50	49
75°	32	34
85°	20	17
90°	16	9
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	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1228.2
1°	1221.9
2°	1195.8
3°	1136.5
4°	1054.3
5°	956.3
6°	863.1
7°	779.3
8°	708.9
9°	656.0
10°	616.5
11°	587.2
12°	562.7
13°	543.0
14°	523.2
15°	499.5
16°	464.7
17°	418.9
18°	365.1
19°	315.3
20°	278.2
21°	255.3
22°	238.7
23°	224.5
24°	211.0
25°	197.6
27.5°	169.9
30°	152.5
32.5°	139.9
35°	137.5
37.5°	133.6
40°	122.5
42.5°	113.8
45°	105.9
47.5°	98.0
50°	90.1
52.5°	82.2
55°	75.1
57.5°	68.0
60°	61.6
62.5°	55.3
65°	49.8
67.5°	44.3
70°	39.5
72.5°	35.6

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CANDELA DISTRIBUTION (continued):

	0°
75°	31.6
77.5°	28.5
80°	25.3
82.5°	22.1
85°	19.8
87.5°	17.4
90°	15.8
92.5°	14.2
95°	11.1
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)