

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: P702001

Luminaire Tested: 340-4C-20-D010 / 340-EU4C-1020-9040-4LBW1LI-CQ

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702001
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-20-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

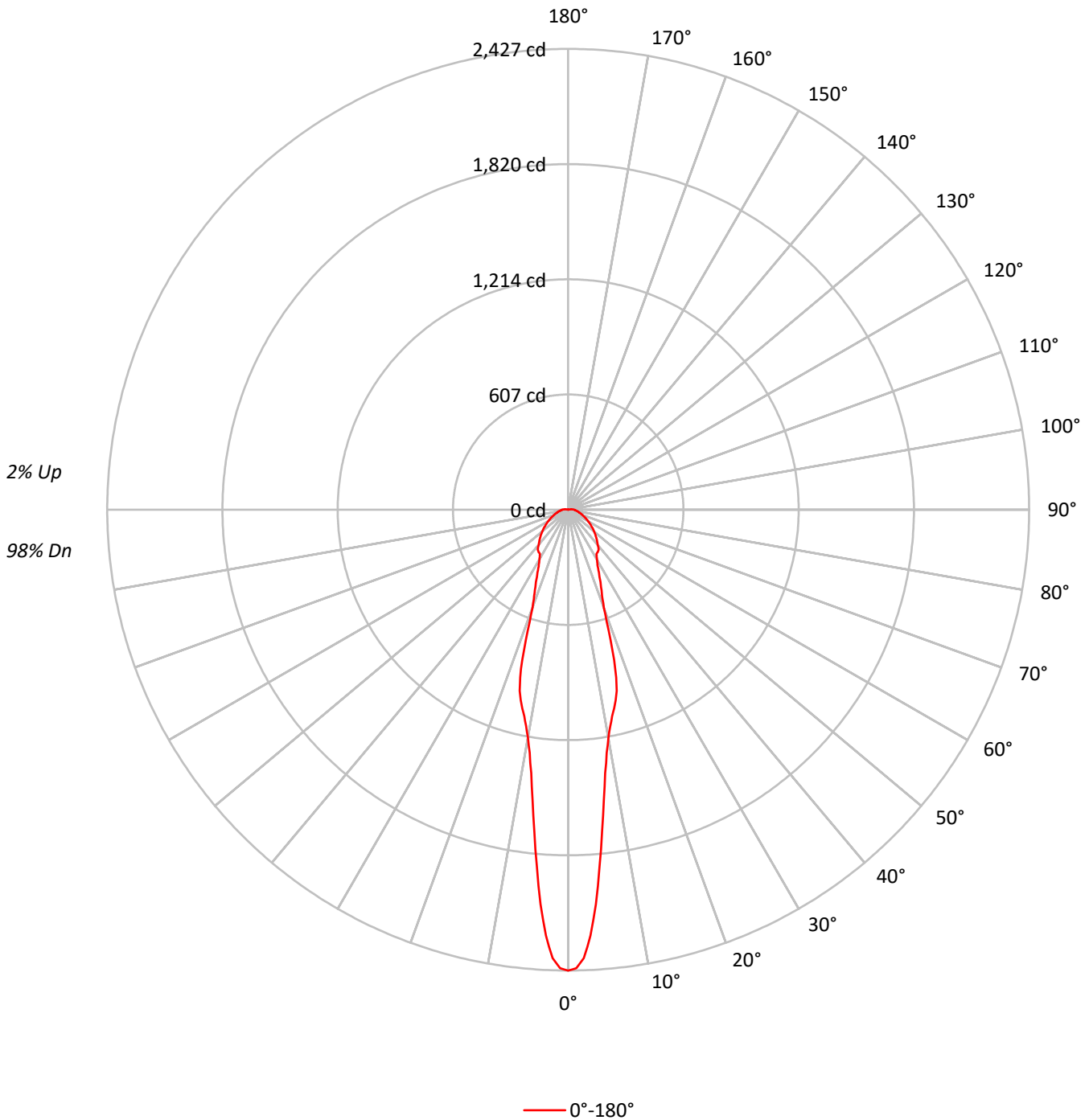
Lumens per Lamp: N/A
Luminaire Lumens: 1293.5 lumens
Efficiency: N/A
Efficacy: 59.3 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.33 / 0.46
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 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	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°	281538
5°	191600
10°	110436
15°	81476
20°	41943
25°	27893
30°	20392
35°	17583
40°	15119
45°	12726
50°	10630
55°	8763
60°	7170
65°	5819
70°	4676
75°	3818
80°	3142
85°	2550

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12726 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.5	12.1
10°-20°	254.8	19.7
20°-30°	182.3	14.1
30°-40°	169.7	13.1
40°-50°	161.6	12.5
50°-60°	133.0	10.3
60°-70°	97.8	7.6
70°-80°	66.8	5.2
80°-90°	43.0	3.3
90°-100°	23.7	1.8
100°-110°	4.4	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°	593.6	45.9
0°-40°	763.3	59.0
0°-60°	1057.9	81.8
0°-90°	1265.5	97.8
90°-120°	28.0	2.2
90°-150°	28.0	2.2
90°-180°	28.0	2.2
0°-180°	1293.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2427	
5°	1890	157
15°	987	255
25°	390	182
35°	272	170
45°	209	162
55°	148	133
65°	98	98
75°	62	67
85°	39	34
90°	31	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°	2427.4
1°	2414.9
2°	2363.4
3°	2246.2
4°	2083.8
5°	1890.1
6°	1705.8
7°	1540.2
8°	1401.2
9°	1296.5
10°	1218.4
11°	1160.6
12°	1112.2
13°	1073.1
14°	1034.1
15°	987.2
16°	918.5
17°	827.9
18°	721.7
19°	623.3
20°	549.8
21°	504.5
22°	471.7
23°	443.6
24°	417.1
25°	390.5
27.5°	335.8
30°	301.5
32.5°	276.5
35°	271.8
37.5°	264.0
40°	242.1
42.5°	224.9
45°	209.3
47.5°	193.7
50°	178.1
52.5°	162.5
55°	148.4
57.5°	134.3
60°	121.8
62.5°	109.3
65°	98.4
67.5°	87.5
70°	78.1
72.5°	70.3

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CANDELA DISTRIBUTION (continued):

	0°
75°	62.5
77.5°	56.2
80°	50.0
82.5°	43.7
85°	39.1
87.5°	34.4
90°	31.2
92.5°	28.1
95°	21.9
97.5°	15.6
100°	10.9
102.5°	6.2
105°	3.1
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)