

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: P702043

Luminaire Tested: 340-4C-25-D010 / 340-EU4C-3040-9030-4LBW1LI-CQ

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702043
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-25-D010 / 340-EU4C-3040-9030-4LBW1LI-CQ
Description: FARALLON 4" LED GLASS DOWNLIGHT CYLINDRICAL FROSTED, QUADRATE ETCHED GLASS KIT.
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

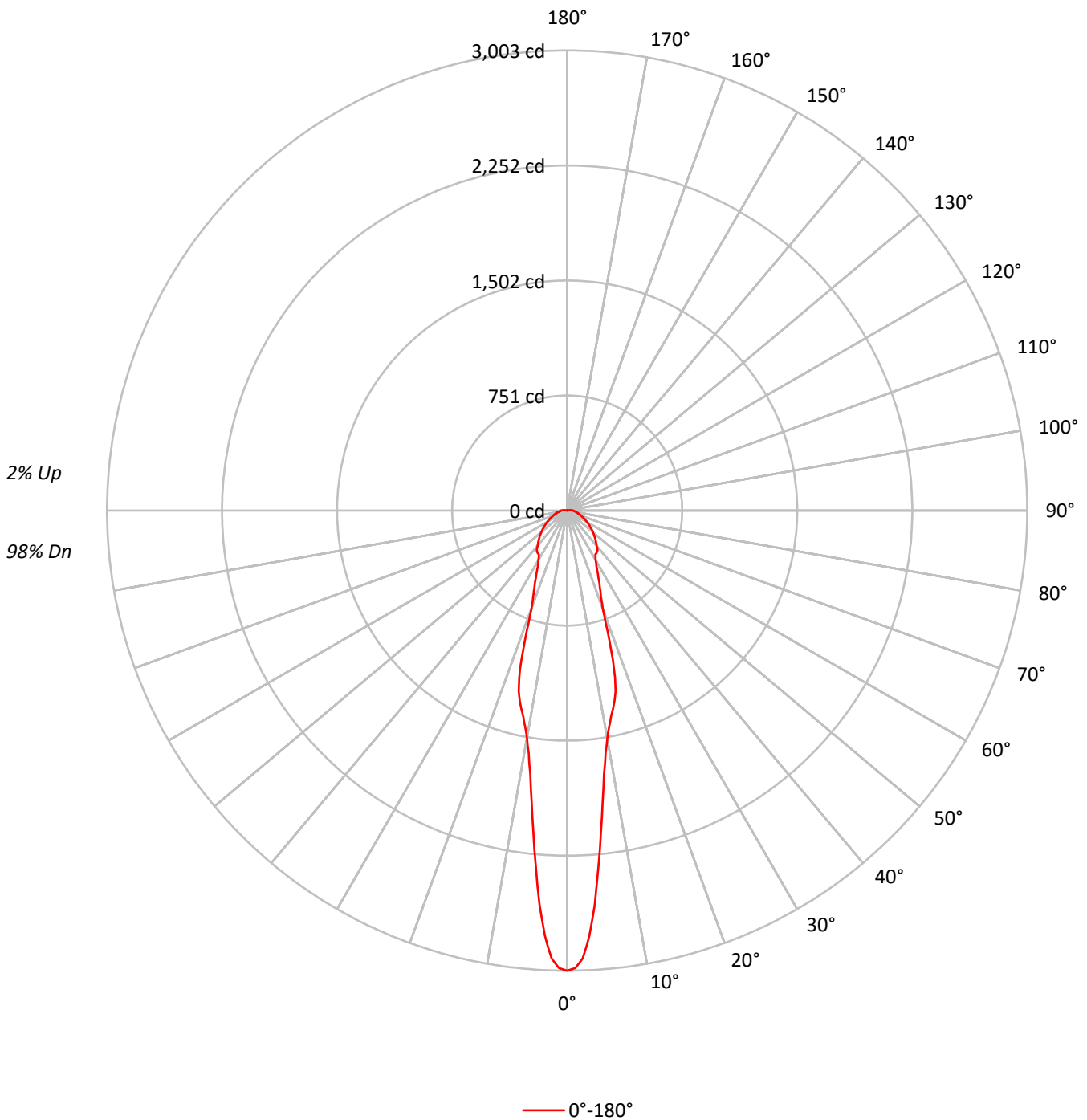
Lumens per Lamp: N/A
Luminaire Lumens: 1600.1 lumens
Efficiency: N/A
Efficacy: 50.8 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.33 / 0.46
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 31.5
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°	348263
5°	237003
10°	136604
15°	100788
20°	51884
25°	34507
30°	25221
35°	21749
40°	18703
45°	15742
50°	13149
55°	10841
60°	8871
65°	7197
70°	5783
75°	4722
80°	3884
85°	3150

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15742 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.6	12.1
10°-20°	315.2	19.7
20°-30°	225.5	14.1
30°-40°	209.9	13.1
40°-50°	199.9	12.5
50°-60°	164.5	10.3
60°-70°	121.0	7.6
70°-80°	82.7	5.2
80°-90°	53.2	3.3
90°-100°	29.3	1.8
100°-110°	5.4	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°	734.3	45.9
0°-40°	944.2	59.0
0°-60°	1308.6	81.8
0°-90°	1565.4	97.8
90°-120°	34.7	2.2
90°-150°	34.7	2.2
90°-180°	35.0	2.2
0°-180°	1600.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3003	
5°	2338	194
15°	1221	315
25°	483	226
35°	336	210
45°	259	200
55°	184	165
65°	122	121
75°	77	83
85°	48	42
90°	39	21
95°	27	19
105°	4	5
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°	3002.7
1°	2987.2
2°	2923.5
3°	2778.6
4°	2577.6
5°	2338.0
6°	2110.0
7°	1905.2
8°	1733.2
9°	1603.8
10°	1507.1
11°	1435.7
12°	1375.8
13°	1327.4
14°	1279.1
15°	1221.2
16°	1136.2
17°	1024.1
18°	892.7
19°	771.0
20°	680.1
21°	624.1
22°	583.5
23°	548.8
24°	515.9
25°	483.1
27.5°	415.4
30°	372.9
32.5°	342.0
35°	336.2
37.5°	326.5
40°	299.5
42.5°	278.2
45°	258.9
47.5°	239.6
50°	220.3
52.5°	201.0
55°	183.6
57.5°	166.2
60°	150.7
62.5°	135.3
65°	121.7
67.5°	108.2
70°	96.6
72.5°	87.0

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CANDELA DISTRIBUTION (continued):

	0°
75°	77.3
77.5°	69.6
80°	61.8
82.5°	54.1
85°	48.3
87.5°	42.5
90°	38.6
92.5°	34.8
95°	27.1
97.5°	19.3
100°	13.5
102.5°	7.7
105°	3.9
107.5°	1.9
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)