

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: P702099

Luminaire Tested: 340-4C-30-D010 / 340-EU4C-3040-9030-4LBW1LI-CQ

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702099
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-30-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

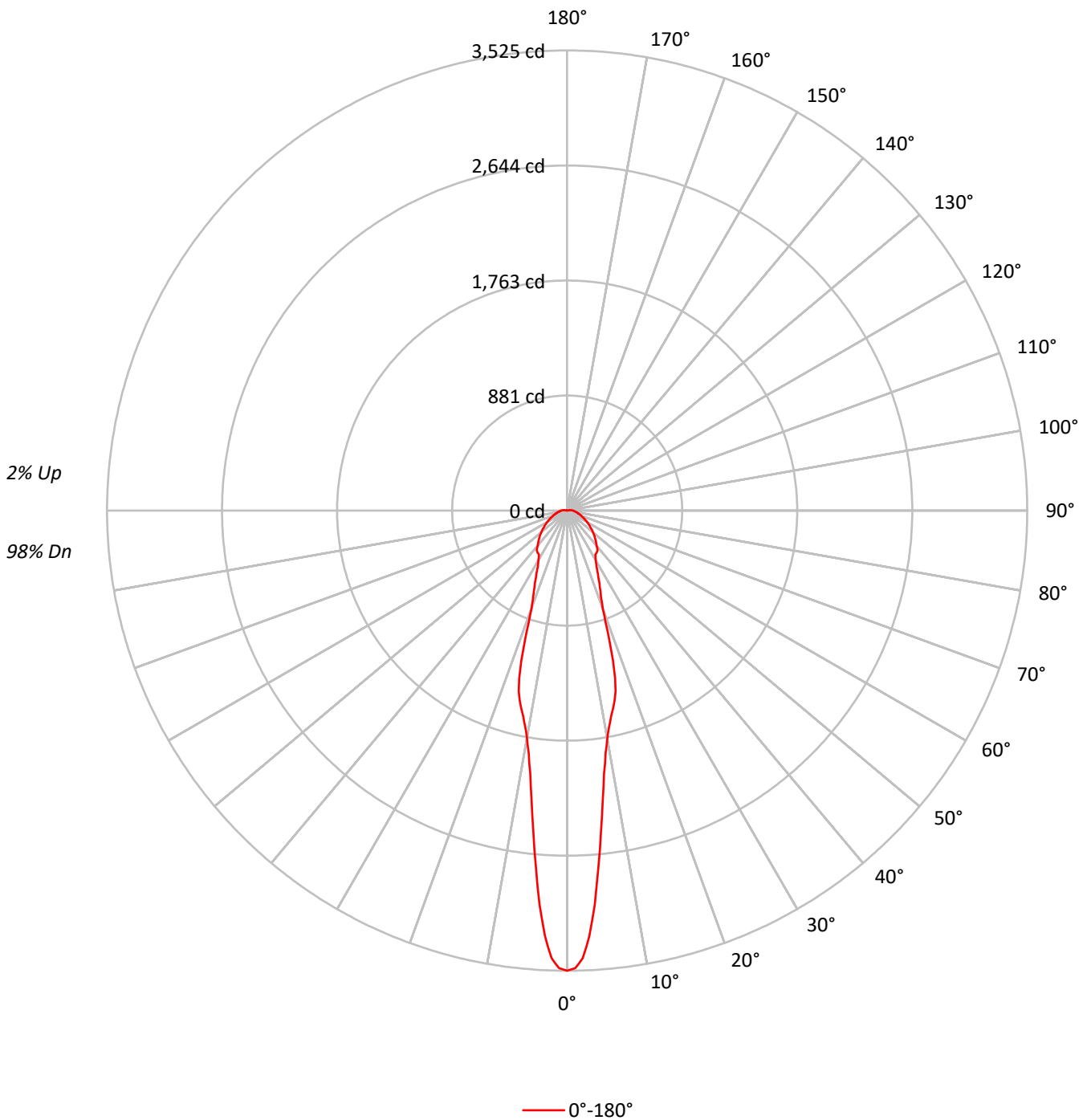
Lumens per Lamp: N/A
Luminaire Lumens: 1878.3 lumens
Efficiency: N/A
Efficacy: 59.4 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.33 / 0.46
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 31.6
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

TEST NUMBER: P702099

CATALOG NUMBER: 340-4C-30-D010 / 340-EU4C-3040-9030-4LBW1LI-CQ

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°	408794
5°	278200
10°	160351
15°	118301
20°	60909
25°	40500
30°	29604
35°	25527
40°	21957
45°	18478
50°	15434
55°	12725
60°	10414
65°	8451
70°	6789
75°	5541
80°	4563
85°	3698

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18478 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.2	12.1
10°-20°	370.0	19.7
20°-30°	264.7	14.1
30°-40°	246.4	13.1
40°-50°	234.6	12.5
50°-60°	193.1	10.3
60°-70°	142.0	7.6
70°-80°	97.0	5.2
80°-90°	62.5	3.3
90°-100°	34.4	1.8
100°-110°	6.4	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°	861.9	45.9
0°-40°	1108.3	59.0
0°-60°	1536.1	81.8
0°-90°	1837.6	97.8
90°-120°	40.8	2.2
90°-150°	40.8	2.2
90°-180°	41.0	2.2
0°-180°	1878.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3525	
5°	2744	227
15°	1433	370
25°	567	265
35°	395	246
45°	304	235
55°	216	193
65°	143	142
75°	91	97
85°	57	49
90°	45	25
95°	32	23
105°	4	6
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°	3524.6
1°	3506.5
2°	3431.6
3°	3261.5
4°	3025.6
5°	2744.4
6°	2476.8
7°	2236.3
8°	2034.5
9°	1882.5
10°	1769.1
11°	1685.2
12°	1614.9
13°	1558.2
14°	1501.5
15°	1433.4
16°	1333.6
17°	1202.1
18°	1047.9
19°	905.0
20°	798.4
21°	732.6
22°	685.0
23°	644.1
24°	605.6
25°	567.0
27.5°	487.6
30°	437.7
32.5°	401.5
35°	394.6
37.5°	383.3
40°	351.6
42.5°	326.6
45°	303.9
47.5°	281.2
50°	258.6
52.5°	235.9
55°	215.5
57.5°	195.1
60°	176.9
62.5°	158.8
65°	142.9
67.5°	127.0
70°	113.4
72.5°	102.1

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CANDELA DISTRIBUTION (continued):

	0°
75°	90.7
77.5°	81.7
80°	72.6
82.5°	63.5
85°	56.7
87.5°	49.9
90°	45.4
92.5°	40.8
95°	31.8
97.5°	22.7
100°	15.9
102.5°	9.1
105°	4.5
107.5°	2.3
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)