

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: P702120

Luminaire Tested: 340-4C-30-D010 / 340-EU4C-3040-9050-4LBW1LI-CQ

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702120
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-3040-9050-4LBW1LI-CQ
Description: FARALLON 4" LED GLASS DOWNLIGHT CYLINDRICAL FROSTED, QUADRATE ETCHED GLASS KIT.
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

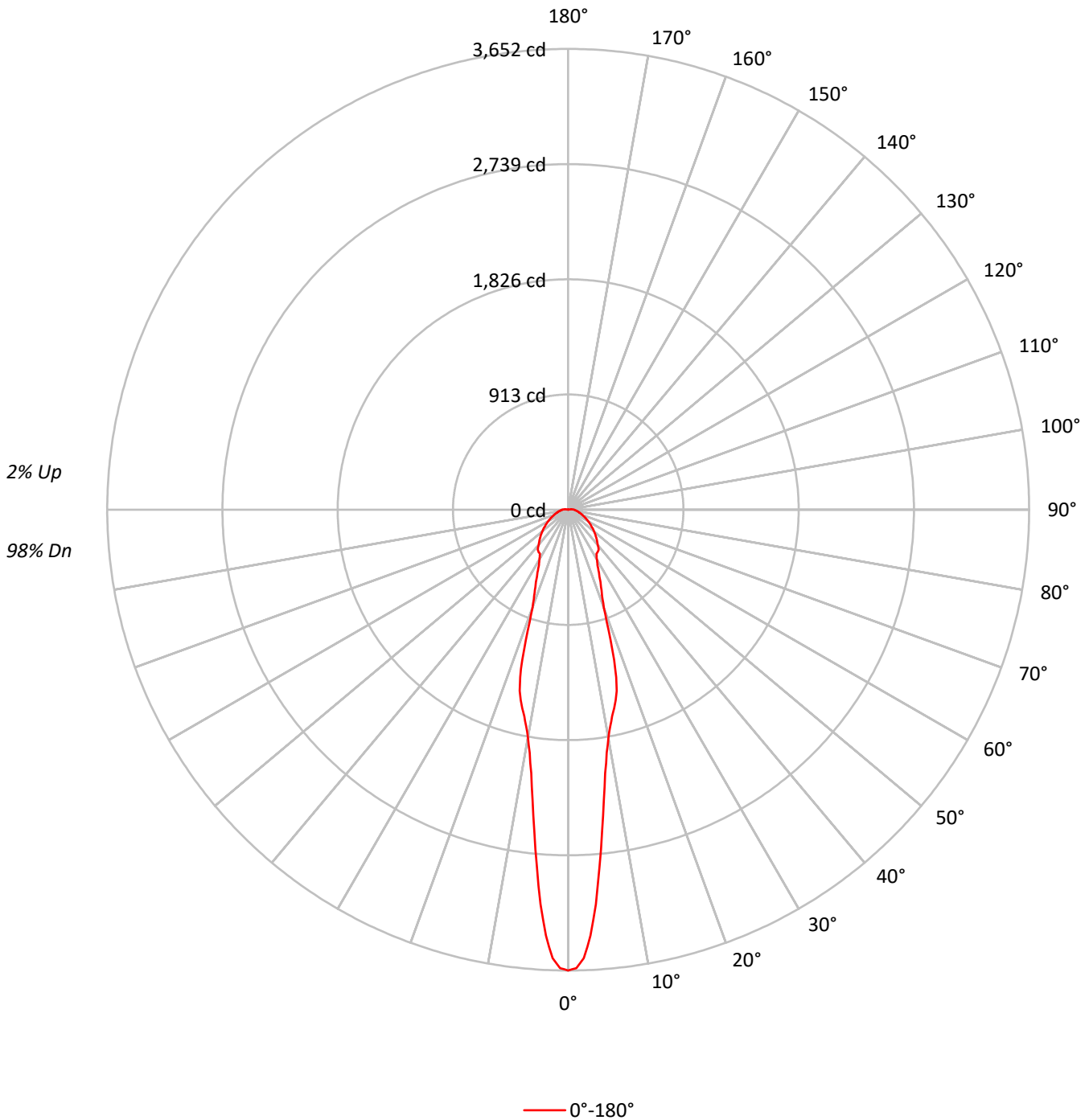
Lumens per Lamp: N/A
Luminaire Lumens: 1946.3 lumens
Efficiency: N/A
Efficacy: 61.6 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.33 / 0.46
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

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

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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°	423582
5°	288266
10°	166152
15°	122585
20°	63113
25°	41964
30°	30679
35°	26452
40°	22750
45°	19147
50°	15990
55°	13185
60°	10791
65°	8758
70°	7035
75°	5742
80°	4726
85°	3835

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 19147 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.5	12.1
10°-20°	383.4	19.7
20°-30°	274.3	14.1
30°-40°	255.3	13.1
40°-50°	243.1	12.5
50°-60°	200.1	10.3
60°-70°	147.1	7.6
70°-80°	100.5	5.2
80°-90°	64.7	3.3
90°-100°	35.6	1.8
100°-110°	6.6	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°	893.1	45.9
0°-40°	1148.4	59.0
0°-60°	1591.6	81.8
0°-90°	1904.0	97.8
90°-120°	42.2	2.2
90°-150°	42.2	2.2
90°-180°	42.0	2.2
0°-180°	1946.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3652	
5°	2844	235
15°	1485	383
25°	588	274
35°	409	255
45°	315	243
55°	223	200
65°	148	147
75°	94	101
85°	59	51
90°	47	26
95°	33	23
105°	5	7
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°	3652.1
1°	3633.3
2°	3555.8
3°	3379.5
4°	3135.1
5°	2843.7
6°	2566.4
7°	2317.3
8°	2108.1
9°	1950.6
10°	1833.1
11°	1746.2
12°	1673.3
13°	1614.6
14°	1555.8
15°	1485.3
16°	1381.9
17°	1245.6
18°	1085.8
19°	937.7
20°	827.3
21°	759.1
22°	709.7
23°	667.4
24°	627.5
25°	587.5
27.5°	505.3
30°	453.6
32.5°	416.0
35°	408.9
37.5°	397.2
40°	364.3
42.5°	338.4
45°	314.9
47.5°	291.4
50°	267.9
52.5°	244.4
55°	223.3
57.5°	202.1
60°	183.3
62.5°	164.5
65°	148.1
67.5°	131.6
70°	117.5
72.5°	105.8

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CANDELA DISTRIBUTION (continued):

	0°
75°	94.0
77.5°	84.6
80°	75.2
82.5°	65.8
85°	58.8
87.5°	51.7
90°	47.0
92.5°	42.3
95°	32.9
97.5°	23.5
100°	16.5
102.5°	9.4
105°	4.7
107.5°	2.4
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)