

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: P702084

Luminaire Tested: 340-4C-30-D010 / 340-EU4C-3040-9024-4LBW1LI-CF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702084
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-4)
Test Lab: INNOVATION CENTER
Issue Date: 8/30/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 340-4C-30-D010 / 340-EU4C-3040-9024-4LBW1LI-CF
Description: FARALLON 4" LED GLASS DOWNLIGHT. CYLINDRICAL FROSTED GLASS KIT.
Light Source: 2400K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

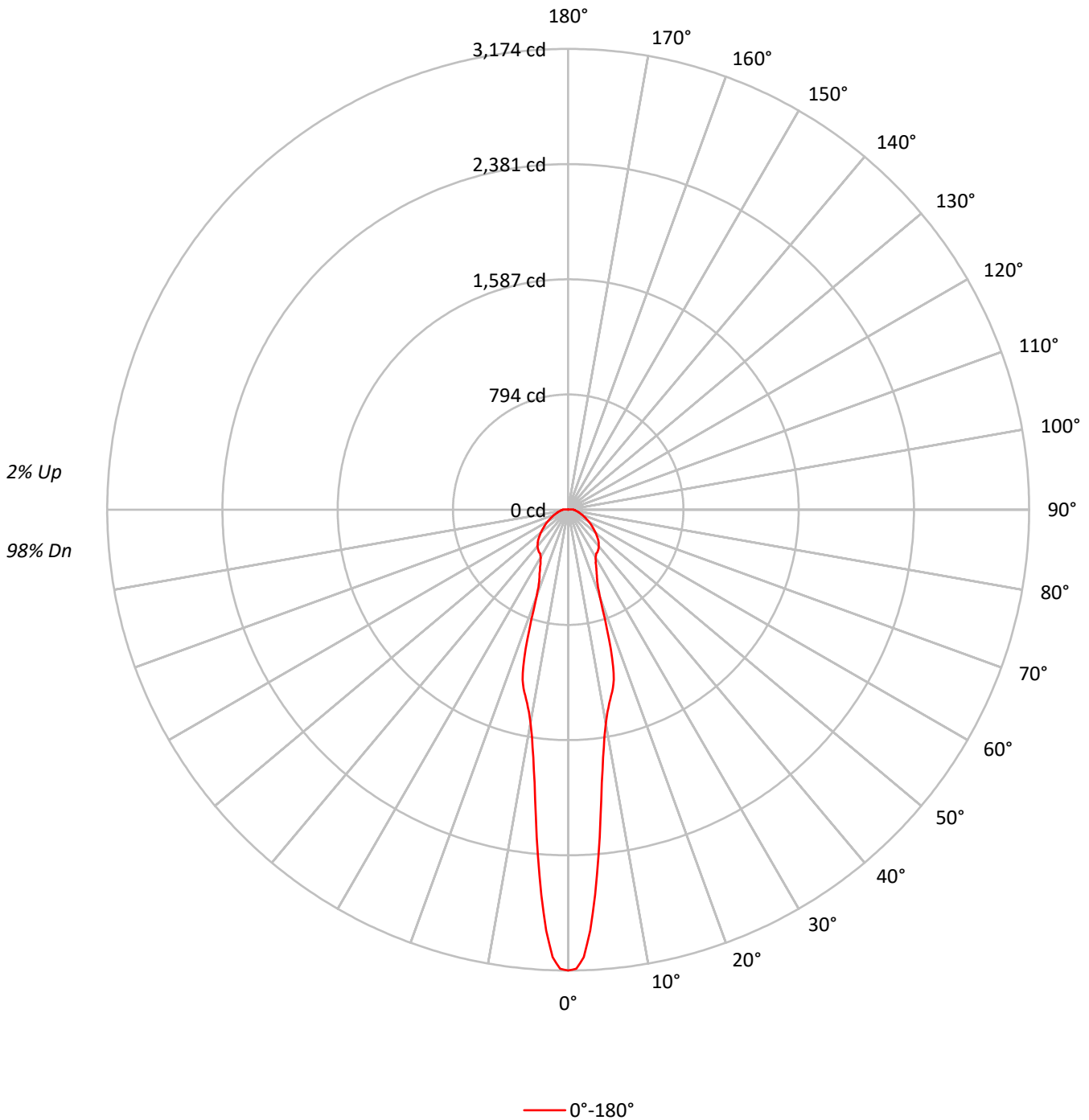
Lumens per Lamp: N/A
Luminaire Lumens: 1643.1 lumens
Efficiency: N/A
Efficacy: 52.0 lumens/watt
Spacing Criteria (0/90/45): 0.3 / 0.3 / 0.45
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

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	98	92	86	82	88	83	80		85	81	77		81	78	75	73
3	94	85	78	72	91	83	76	71	80	74	70		77	72	68		74	70	67	65
4	87	77	70	64	85	76	69	63	73	67	62		71	65	61		68	64	60	58
5	82	71	63	57	80	70	62	57	67	61	56		65	60	55		63	59	55	53
6	77	65	58	52	75	64	57	52	62	56	51		61	55	51		59	54	50	48
7	72	61	53	48	71	60	53	48	58	52	47		57	51	47		55	50	46	45
8	69	57	49	44	67	56	49	44	55	48	44		53	48	43		52	47	43	41
9	65	53	46	41	64	53	46	41	52	45	41		50	45	41		49	44	40	39
10	62	50	43	39	61	50	43	39	49	43	39		48	42	38		47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	368096
5°	242944
10°	135135
15°	100087
20°	48306
25°	32893
30°	25566
35°	22842
40°	20489
45°	17736
50°	14659
55°	11898
60°	9601
65°	7605
70°	5975
75°	4808
80°	3859
85°	3131

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17736 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.1	11.9
10°-20°	309.4	18.8
20°-30°	215.0	13.1
30°-40°	220.4	13.4
40°-50°	223.3	13.6
50°-60°	181.1	11.0
60°-70°	127.9	7.8
70°-80°	83.6	5.1
80°-90°	52.6	3.2
90°-100°	28.3	1.7
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°	720.5	43.8
0°-40°	940.8	57.3
0°-60°	1345.3	81.9
0°-90°	1609.4	98.0
90°-120°	33.7	2.0
90°-150°	33.7	2.0
90°-180°	34.0	2.1
0°-180°	1643.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3174	
5°	2397	196
15°	1213	309
25°	460	215
35°	353	220
45°	292	223
55°	202	181
65°	129	128
75°	79	84
85°	48	42
90°	36	20
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	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	3173.7
1°	3162.2
2°	3083.6
3°	2903.2
4°	2659.5
5°	2396.6
6°	2131.8
7°	1893.9
8°	1723.1
9°	1588.8
10°	1490.9
11°	1419.9
12°	1362.4
13°	1314.4
14°	1268.3
15°	1212.7
16°	1124.4
17°	1003.5
18°	865.4
19°	733.0
20°	633.2
21°	571.8
22°	531.5
23°	506.6
24°	483.5
25°	460.5
27.5°	410.6
30°	378.0
32.5°	358.8
35°	353.1
37.5°	341.6
40°	328.1
42.5°	310.8
45°	291.7
47.5°	268.6
50°	245.6
52.5°	222.6
55°	201.5
57.5°	182.3
60°	163.1
62.5°	143.9
65°	128.6
67.5°	113.2
70°	99.8
72.5°	88.3

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CANDELA DISTRIBUTION (continued):

	0°
75°	78.7
77.5°	69.1
80°	61.4
82.5°	53.7
85°	48.0
87.5°	42.2
90°	36.5
92.5°	32.6
95°	26.9
97.5°	19.2
100°	13.4
102.5°	7.7
105°	3.8
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)