

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: P702092

Luminaire Tested: 340-4C-30-D010 / 340-EU4C-3040-9027-4LBW1LI-CQ

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702092
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-3040-9027-4LBW1LI-CQ
Description: FARALLON 4" LED GLASS DOWNLIGHT CYLINDRICAL FROSTED, QUADRATE ETCHED GLASS KIT.
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

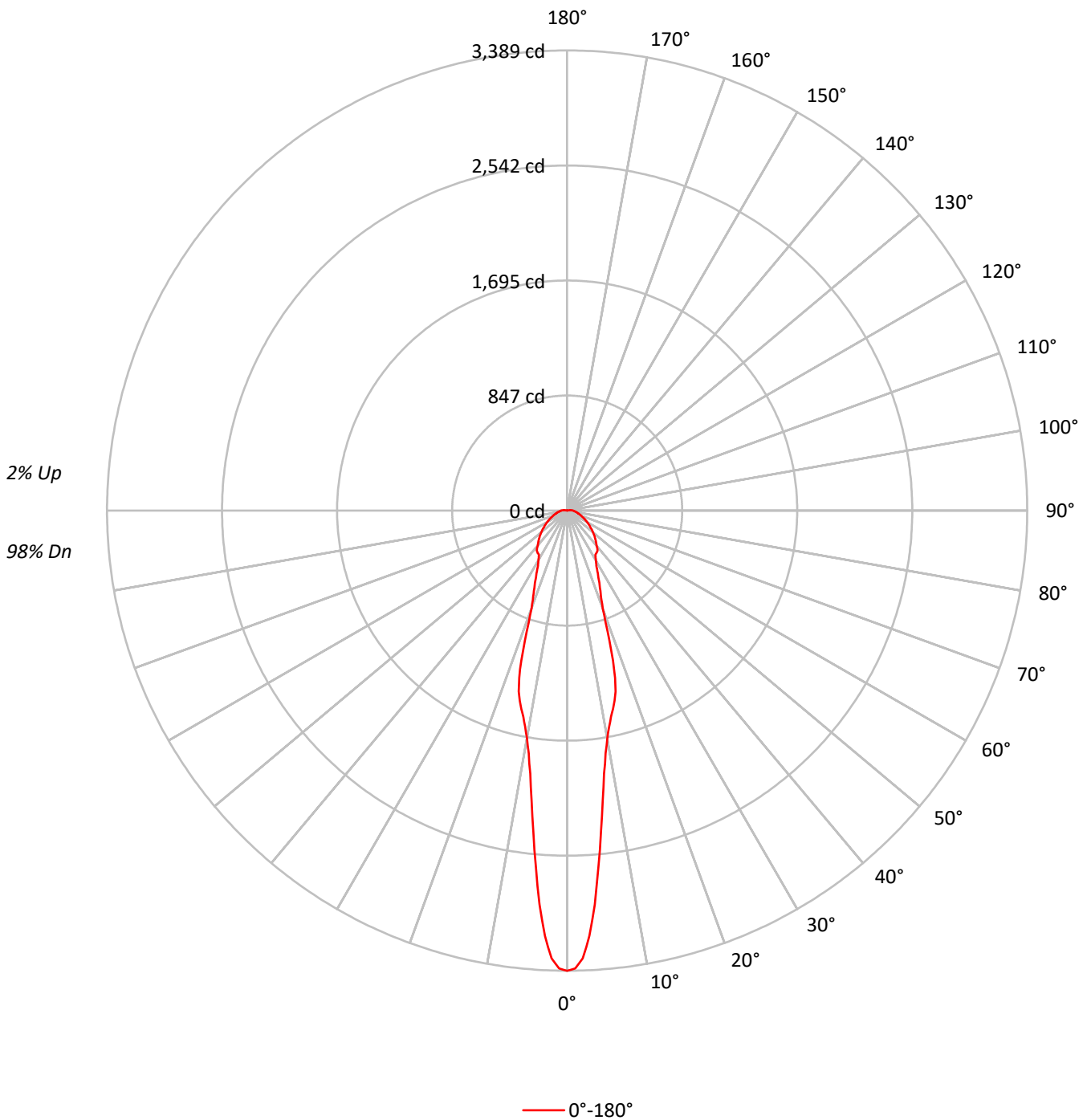
Lumens per Lamp: N/A
Luminaire Lumens: 1806.2 lumens
Efficiency: N/A
Efficacy: 57.2 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.33 / 0.46
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

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°	393113
5°	267526
10°	154206
15°	113770
20°	58567
25°	38950
30°	28474
35°	24550
40°	21114
45°	17773
50°	14838
55°	12235
60°	10014
65°	8126
70°	6532
75°	5327
80°	4387
85°	3554

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17773 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.5	12.1
10°-20°	355.8	19.7
20°-30°	254.6	14.1
30°-40°	237.0	13.1
40°-50°	225.6	12.5
50°-60°	185.7	10.3
60°-70°	136.5	7.6
70°-80°	93.3	5.2
80°-90°	60.1	3.3
90°-100°	33.1	1.8
100°-110°	6.1	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°	828.9	45.9
0°-40°	1065.8	59.0
0°-60°	1477.2	81.8
0°-90°	1767.0	97.8
90°-120°	39.2	2.2
90°-150°	39.2	2.2
90°-180°	39.0	2.2
0°-180°	1806.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3389	
5°	2639	219
15°	1378	356
25°	545	255
35°	380	237
45°	292	226
55°	207	186
65°	137	137
75°	87	93
85°	54	48
90°	44	24
95°	30	22
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°	3389.4
1°	3372.0
2°	3300.0
3°	3136.4
4°	2909.6
5°	2639.1
6°	2381.8
7°	2150.6
8°	1956.4
9°	1810.3
10°	1701.3
11°	1620.6
12°	1552.9
13°	1498.4
14°	1443.9
15°	1378.5
16°	1282.5
17°	1156.0
18°	1007.7
19°	870.3
20°	767.7
21°	704.5
22°	658.7
23°	619.4
24°	582.4
25°	545.3
27.5°	468.9
30°	421.0
32.5°	386.1
35°	379.5
37.5°	368.6
40°	338.1
42.5°	314.1
45°	292.3
47.5°	270.5
50°	248.6
52.5°	226.8
55°	207.2
57.5°	187.6
60°	170.1
62.5°	152.7
65°	137.4
67.5°	122.1
70°	109.1
72.5°	98.1

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CANDELA DISTRIBUTION (continued):

	0°
75°	87.2
77.5°	78.5
80°	69.8
82.5°	61.1
85°	54.5
87.5°	48.0
90°	43.6
92.5°	39.3
95°	30.5
97.5°	21.8
100°	15.3
102.5°	8.7
105°	4.4
107.5°	2.2
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)