

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: P702199

Luminaire Tested: 340-4C-40-D010 / 340-EU4C-3040-9024-4LBW1LI-GCC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702199
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-8)
Test Lab: INNOVATION CENTER
Issue Date: 8/30/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 340-4C-40-D010 / 340-EU4C-3040-9024-4LBW1LI-GCC
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, CLEAR INSIDE, CLEAR OUTSIDE GLA
Light Source: 2400K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

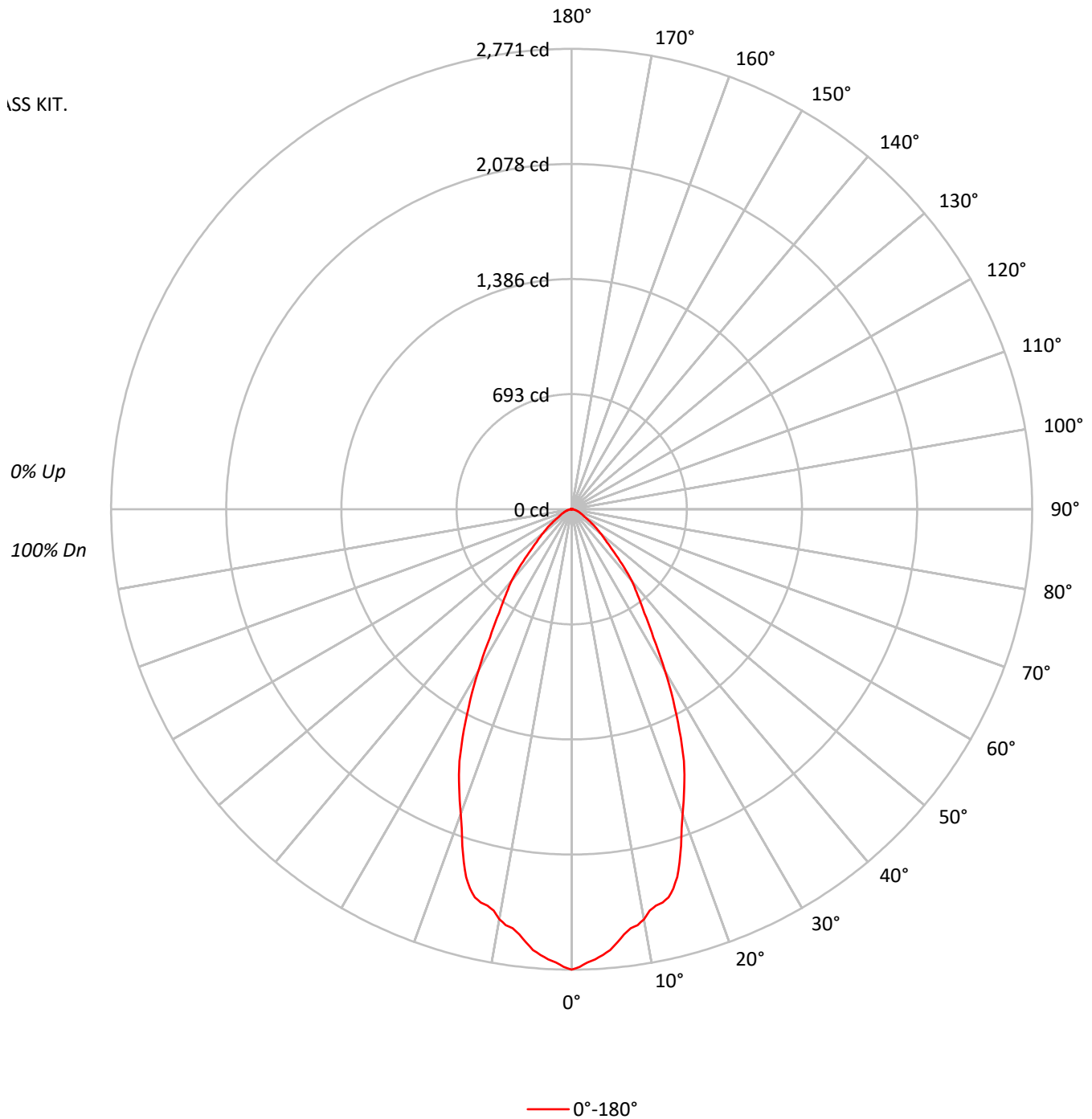
Lumens per Lamp: N/A
Luminaire Lumens: 2613.8 lumens
Efficiency: N/A
Efficacy: 55.6 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.34' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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: P702199

CATALOG NUMBER: 340-4C-40-D010 / 340-EU4C-3040-9024-4LBW1LI-GCC

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	111	111	111		106	106	106		102	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99		99	98	96		96	94	93	91
2	106	101	96	92	104	99	95	91	95	92	89		92	89	87		89	87	85	83
3	100	93	87	83	98	91	86	82	88	84	80		86	82	79		84	81	78	76
4	94	86	79	75	92	85	79	74	82	77	73		80	76	72		78	75	72	70
5	89	80	73	68	87	79	72	68	77	71	67		75	70	67		73	69	66	64
6	84	74	68	63	82	73	67	63	72	66	62		70	65	62		69	65	61	60
7	79	69	63	58	78	69	62	58	67	62	58		66	61	57		65	60	57	55
8	75	65	58	54	74	64	58	54	63	58	54		62	57	53		61	56	53	52
9	71	61	55	50	70	61	54	50	60	54	50		59	53	50		58	53	50	48
10	68	58	51	47	67	57	51	47	56	51	47		55	50	47		55	50	47	45

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	321343
5°	310020
10°	295032
15°	283760
20°	240744
25°	200828
30°	150318
35°	107934
40°	85165
45°	56490
50°	41266
55°	29240
60°	20111
65°	17317
70°	15158
75°	12951
80°	10553
85°	10513

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 56490 cd/sqm

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CATALOG NUMBER: 340-4C-40-D010 / 340-EU4C-3040-9024-4LBW1LI-GCC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.1	9.5
10°-20°	644.2	24.6
20°-30°	708.7	27.1
30°-40°	491.4	18.8
40°-50°	280.1	10.7
50°-60°	133.2	5.1
60°-70°	63.0	2.4
70°-80°	30.8	1.2
80°-90°	9.0	0.3
90°-100°	3.2	0.1
100°-110°	2.1	0.1
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°	1601.1	61.3
0°-40°	2092.4	80.1
0°-60°	2505.8	95.9
0°-90°	2608.5	99.8
90°-120°	5.3	0.2
90°-150°	5.3	0.2
90°-180°	5.0	0.2
0°-180°	2613.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2771	
5°	2663	248
15°	2363	644
25°	1569	709
35°	762	491
45°	344	280
55°	145	133
65°	63	63
75°	29	31
85°	8	8
90°	3	2
95°	3	2
105°	3	2
115°	0	0
125°	0	0
135°	0	0
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	0

TEST NUMBER: P702199

CATALOG NUMBER: 340-4C-40-D010 / 340-EU4C-3040-9024-4LBW1LI-GCC

CANDELA DISTRIBUTION (FULL):

0°	
0°	2770.6
1°	2754.9
2°	2728.6
3°	2712.8
4°	2689.1
5°	2662.8
6°	2620.8
7°	2578.7
8°	2547.2
9°	2534.0
10°	2505.1
11°	2460.4
12°	2439.4
13°	2428.9
14°	2407.9
15°	2363.2
16°	2302.7
17°	2221.2
18°	2129.2
19°	2032.0
20°	1950.5
21°	1879.5
22°	1808.5
23°	1734.9
24°	1658.7
25°	1569.3
27.5°	1343.3
30°	1122.4
32.5°	914.8
35°	762.3
37.5°	651.9
40°	562.5
42.5°	449.5
45°	344.4
47.5°	276.0
50°	228.7
52.5°	186.6
55°	144.6
57.5°	110.4
60°	86.7
62.5°	73.6
65°	63.1
67.5°	52.6
70°	44.7
72.5°	36.8

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CATALOG NUMBER: 340-4C-40-D010 / 340-EU4C-3040-9024-4LBW1LI-GCC

CANDELA DISTRIBUTION (continued):

	0°
75°	28.9
77.5°	21.0
80°	15.8
82.5°	10.5
85°	7.9
87.5°	5.3
90°	2.6
92.5°	2.6
95°	2.6
97.5°	2.6
100°	5.3
102.5°	2.6
105°	2.6
107.5°	0.0
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)