

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: P702234

Luminaire Tested: 340-4C-40-D010 / 340-EU4C-3040-9050-4LBW1LI-GCC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702234
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-3040-9050-4LBW1LI-GCC
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, CLEAR INSIDE, CLEAR OUTSIDE GLA
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

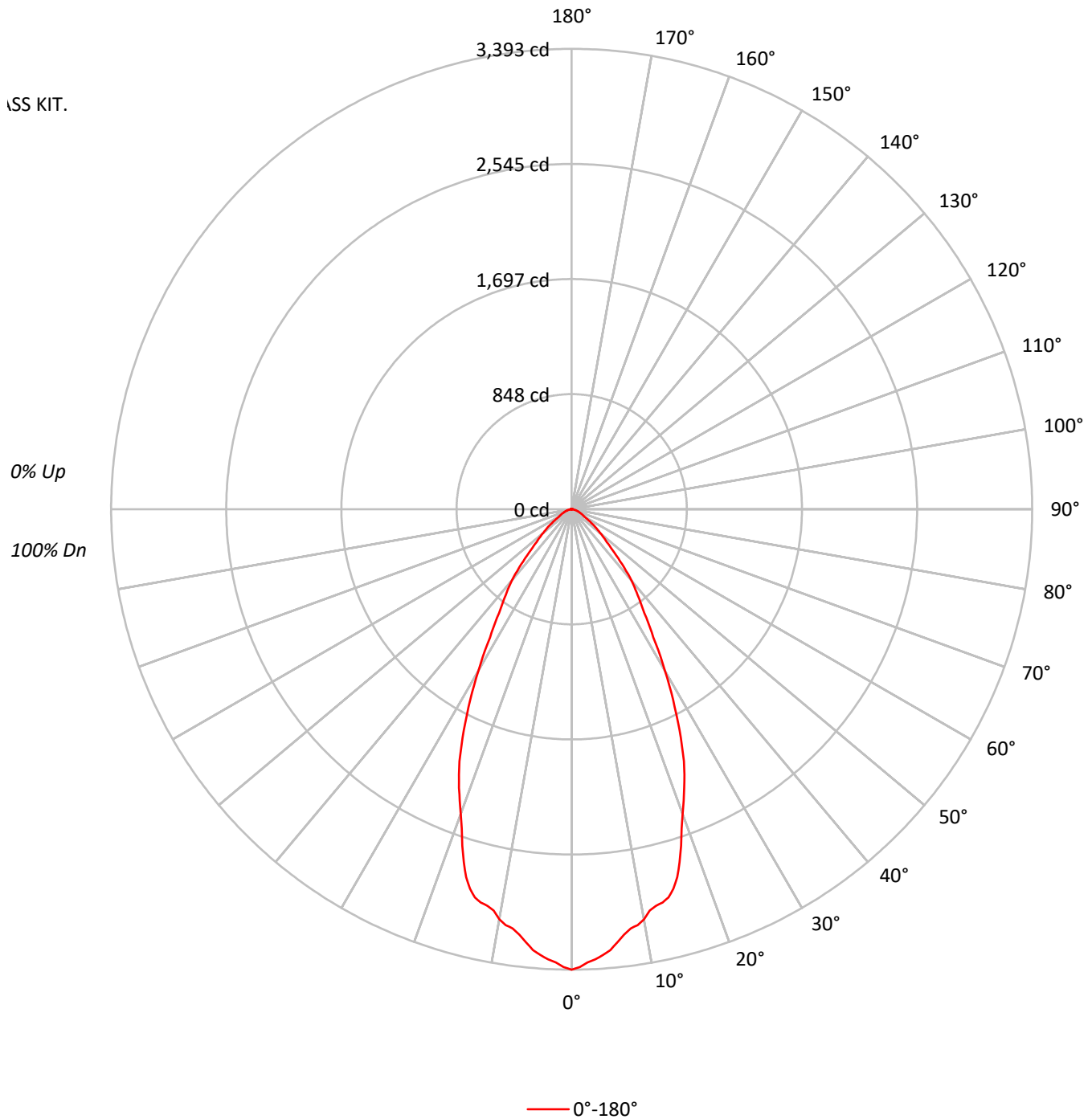
Lumens per Lamp: N/A
Luminaire Lumens: 3201.2 lumens
Efficiency: N/A
Efficacy: 68.1 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.34' x H: 0')
CIE Type: Direct

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

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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	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°	393566
5°	379701
10°	361337
15°	347520
20°	294842
25°	245965
30°	184108
35°	132188
40°	104318
45°	69169
50°	50541
55°	35811
60°	24635
65°	21214
70°	18549
75°	15864
80°	12891
85°	12908

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 69169 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.9	9.5
10°-20°	789.0	24.6
20°-30°	868.0	27.1
30°-40°	601.8	18.8
40°-50°	343.1	10.7
50°-60°	163.1	5.1
60°-70°	77.2	2.4
70°-80°	37.8	1.2
80°-90°	11.0	0.3
90°-100°	3.9	0.1
100°-110°	2.6	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°	1960.9	61.3
0°-40°	2562.7	80.1
0°-60°	3068.9	95.9
0°-90°	3194.7	99.8
90°-120°	6.5	0.2
90°-150°	6.5	0.2
90°-180°	6.0	0.2
0°-180°	3201.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3393	
5°	3261	304
15°	2894	789
25°	1922	868
35°	934	602
45°	422	343
55°	177	163
65°	77	77
75°	35	38
85°	10	10
90°	3	2
95°	3	3
105°	3	3
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°	3393.3
1°	3373.9
2°	3341.7
3°	3322.4
4°	3293.4
5°	3261.3
6°	3209.7
7°	3158.2
8°	3119.6
9°	3103.5
10°	3068.1
11°	3013.4
12°	2987.6
13°	2974.7
14°	2949.0
15°	2894.2
16°	2820.2
17°	2720.4
18°	2607.7
19°	2488.6
20°	2388.8
21°	2301.9
22°	2214.9
23°	2124.8
24°	2031.4
25°	1922.0
27.5°	1645.1
30°	1374.7
32.5°	1120.4
35°	933.6
37.5°	798.4
40°	689.0
42.5°	550.5
45°	421.7
47.5°	338.0
50°	280.1
52.5°	228.6
55°	177.1
57.5°	135.2
60°	106.2
62.5°	90.1
65°	77.3
67.5°	64.4
70°	54.7
72.5°	45.1

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CANDELA DISTRIBUTION (continued):

	0°
75°	35.4
77.5°	25.8
80°	19.3
82.5°	12.9
85°	9.7
87.5°	6.4
90°	3.2
92.5°	3.2
95°	3.2
97.5°	3.2
100°	6.4
102.5°	3.2
105°	3.2
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)