

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: P702248

Luminaire Tested: 340-4C-40-D010 / 340-EU4C-3040-9730-4LBW1LI-GCC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702248
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-3040-9730-4LBW1LI-GCC
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, CLEAR INSIDE, CLEAR OUTSIDE GLA
Light Source: 3000K CCT, 97 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

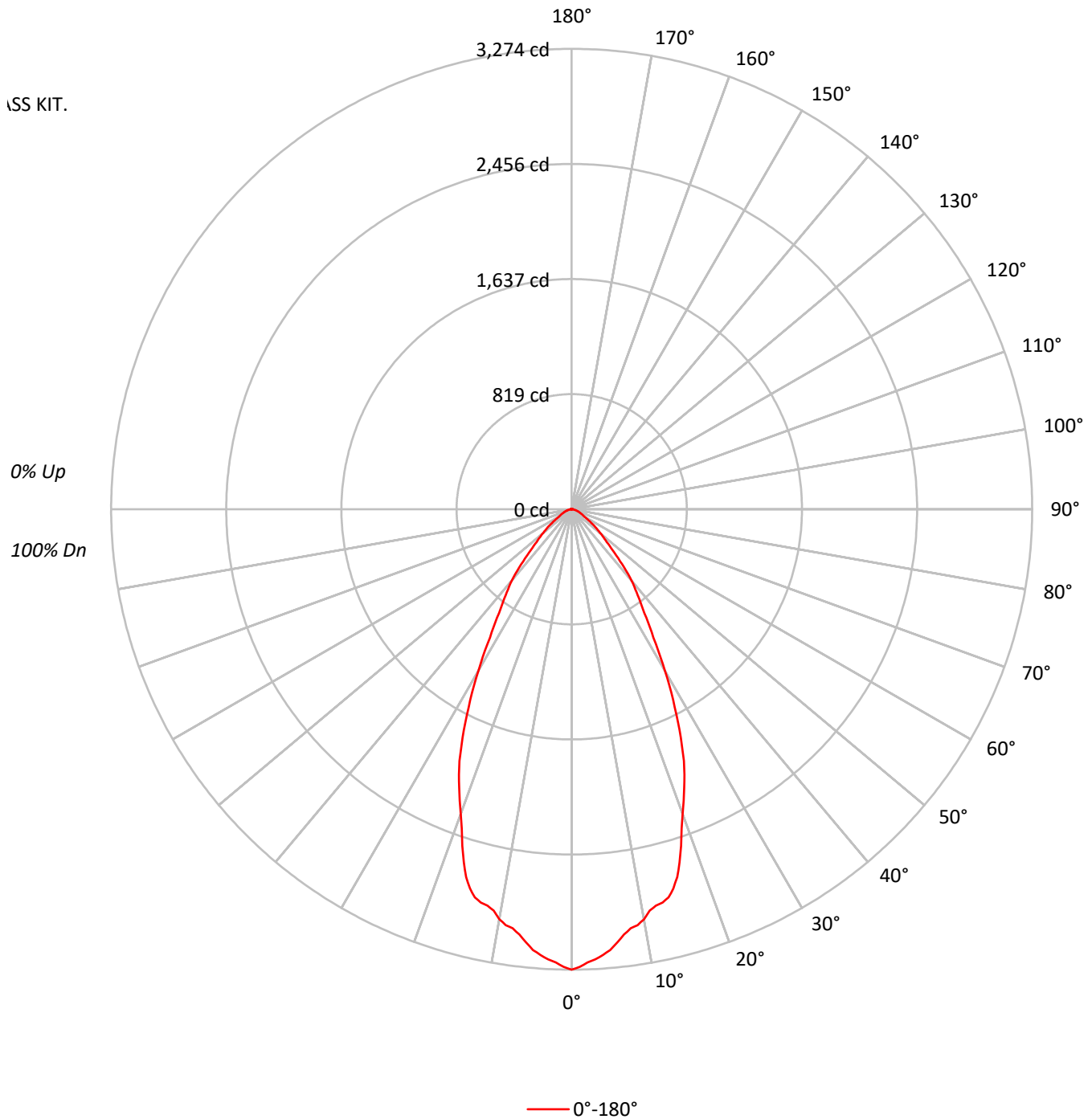
Lumens per Lamp: N/A
Luminaire Lumens: 3088.5 lumens
Efficiency: N/A
Efficacy: 65.7 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.34' x H: 0')
CIE Type: Direct

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°	379706
5°	366335
10°	348618
15°	335296
20°	284462
25°	237301
30°	177626
35°	127544
40°	100639
45°	66742
50°	48754
55°	34538
60°	23777
65°	20446
70°	17905
75°	15326
80°	12423
85°	12376

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 66742 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.2	9.5
10°-20°	761.2	24.6
20°-30°	837.4	27.1
30°-40°	580.6	18.8
40°-50°	331.0	10.7
50°-60°	157.3	5.1
60°-70°	74.4	2.4
70°-80°	36.4	1.2
80°-90°	10.6	0.3
90°-100°	3.8	0.1
100°-110°	2.5	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°	1891.9	61.3
0°-40°	2472.5	80.1
0°-60°	2960.8	95.9
0°-90°	3082.2	99.8
90°-120°	6.3	0.2
90°-150°	6.3	0.2
90°-180°	6.0	0.2
0°-180°	3088.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3274	
5°	3146	293
15°	2792	761
25°	1854	837
35°	901	581
45°	407	331
55°	171	157
65°	74	74
75°	34	36
85°	9	9
90°	3	2
95°	3	3
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	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	3273.8
1°	3255.2
2°	3224.1
3°	3205.5
4°	3177.6
5°	3146.5
6°	3096.8
7°	3047.1
8°	3009.8
9°	2994.3
10°	2960.1
11°	2907.3
12°	2882.5
13°	2870.0
14°	2845.2
15°	2792.4
16°	2721.0
17°	2624.7
18°	2516.0
19°	2401.0
20°	2304.7
21°	2220.9
22°	2137.0
23°	2050.0
24°	1960.0
25°	1854.3
27.5°	1587.2
30°	1326.3
32.5°	1080.9
35°	900.8
37.5°	770.3
40°	664.7
42.5°	531.1
45°	406.9
47.5°	326.1
50°	270.2
52.5°	220.5
55°	170.8
57.5°	130.5
60°	102.5
62.5°	87.0
65°	74.5
67.5°	62.1
70°	52.8
72.5°	43.5

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CANDELA DISTRIBUTION (continued):

	0°
75°	34.2
77.5°	24.8
80°	18.6
82.5°	12.4
85°	9.3
87.5°	6.2
90°	3.1
92.5°	3.1
95°	3.1
97.5°	3.1
100°	6.2
102.5°	3.1
105°	3.1
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)