

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: P702157

Luminaire Tested: 340-4C-35-D010 / 340-EU4C-3040-9030-4LBW1LI-GCC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702157
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-35-D010 / 340-EU4C-3040-9030-4LBW1LI-GCC
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, CLEAR INSIDE, CLEAR OUTSIDE GLA
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

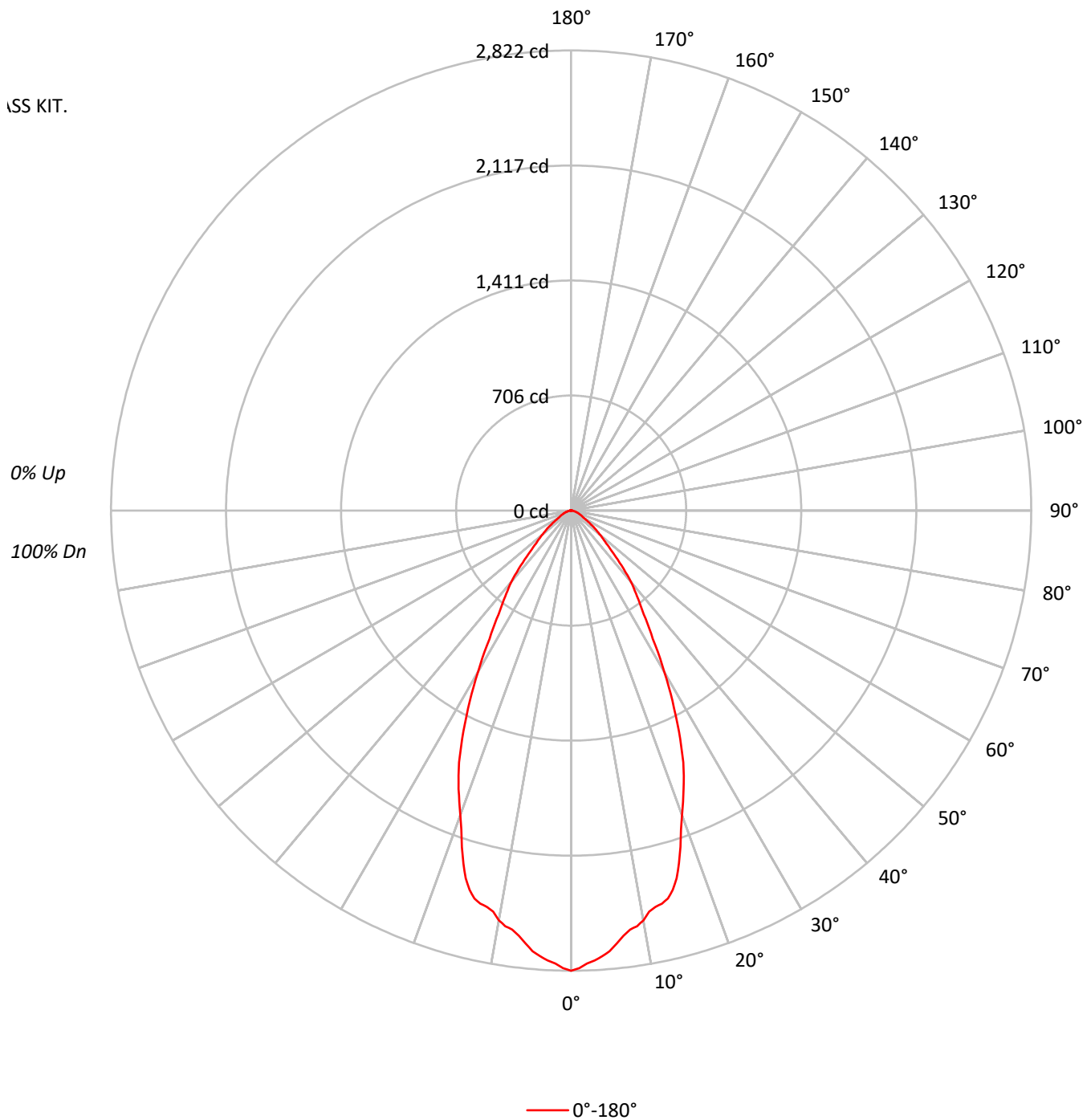
Lumens per Lamp: N/A
Luminaire Lumens: 2662.6 lumens
Efficiency: N/A
Efficacy: 65.9 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.34' x H: 0')
CIE Type: Direct

Input Watts (W): 40.4
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°	327316
5°	315783
10°	300520
15°	289032
20°	245212
25°	204565
30°	153117
35°	109944
40°	86755
45°	57540
50°	42024
55°	29786
60°	20506
65°	17646
70°	15430
75°	13220
80°	10754
85°	10646

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 57540 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.8	9.5
10°-20°	656.2	24.6
20°-30°	721.9	27.1
30°-40°	500.5	18.8
40°-50°	285.4	10.7
50°-60°	135.7	5.1
60°-70°	64.2	2.4
70°-80°	31.4	1.2
80°-90°	9.1	0.3
90°-100°	3.3	0.1
100°-110°	2.2	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°	1630.8	61.2
0°-40°	2131.3	80.0
0°-60°	2552.4	95.9
0°-90°	2657.1	99.8
90°-120°	5.5	0.2
90°-150°	5.5	0.2
90°-180°	5.0	0.2
0°-180°	2662.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2822	
5°	2712	253
15°	2407	656
25°	1598	722
35°	776	501
45°	351	285
55°	147	136
65°	64	64
75°	30	31
85°	8	8
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	0

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CANDELA DISTRIBUTION (FULL):

0°	
0°	2822.1
1°	2806.1
2°	2779.3
3°	2763.2
4°	2739.1
5°	2712.3
6°	2669.5
7°	2626.7
8°	2594.5
9°	2581.1
10°	2551.7
11°	2506.2
12°	2484.8
13°	2474.0
14°	2452.6
15°	2407.1
16°	2345.5
17°	2262.5
18°	2168.8
19°	2069.7
20°	1986.7
21°	1914.4
22°	1842.1
23°	1767.2
24°	1689.5
25°	1598.5
27.5°	1368.2
30°	1143.3
32.5°	931.8
35°	776.5
37.5°	664.0
40°	573.0
42.5°	457.9
45°	350.8
47.5°	281.1
50°	232.9
52.5°	190.1
55°	147.3
57.5°	112.5
60°	88.4
62.5°	75.0
65°	64.3
67.5°	53.6
70°	45.5
72.5°	37.5

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CANDELA DISTRIBUTION (continued):

	0°
75°	29.5
77.5°	21.4
80°	16.1
82.5°	10.7
85°	8.0
87.5°	5.4
90°	2.7
92.5°	2.7
95°	2.7
97.5°	2.7
100°	5.4
102.5°	2.7
105°	2.7
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)