

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: P702171

Luminaire Tested: 340-4C-35-D010 / 340-EU4C-3040-9040-4LBW1LI-GCC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702171
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-3040-9040-4LBW1LI-GCC
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, CLEAR INSIDE, CLEAR OUTSIDE GLA
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

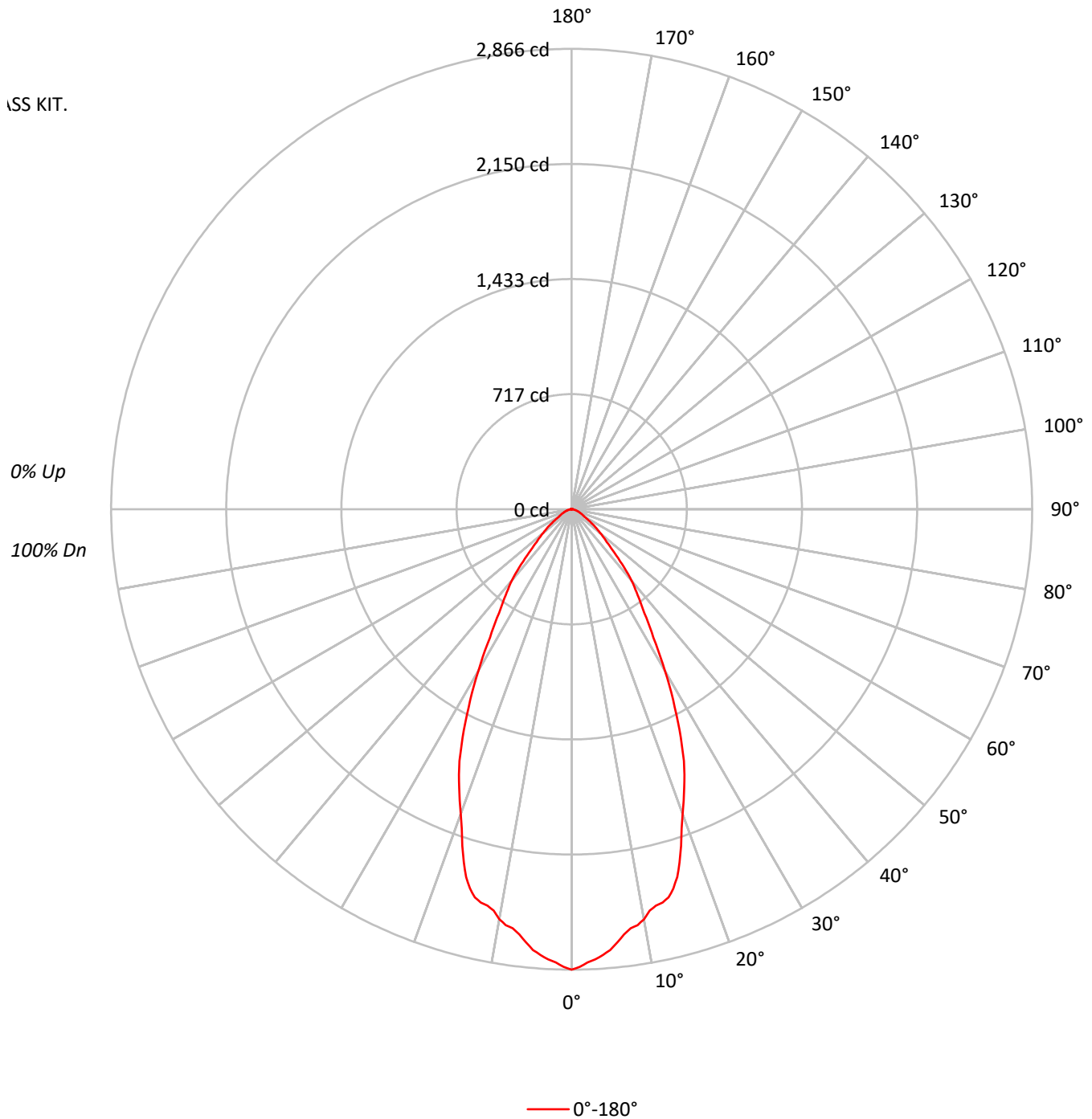
Lumens per Lamp: N/A
Luminaire Lumens: 2703.6 lumens
Efficiency: N/A
Efficacy: 66.9 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.34' x H: 0')
CIE Type: Direct

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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	94	93	91				91
2	106	101	96	92	104	99	95	91	95	92	89	92	89	87	89	87	85	83				83
3	100	93	87	83	98	91	86	82	88	84	80	86	82	79	84	81	78	76				76
4	94	86	79	75	92	85	79	74	82	77	73	80	76	72	78	75	72	70				70
5	89	80	73	68	87	79	72	68	77	71	67	75	70	67	73	69	66	64				64
6	84	74	68	63	82	73	67	63	72	66	62	70	65	62	69	65	61	60				60
7	79	69	63	58	78	69	62	58	67	62	58	66	61	57	65	60	57	55				55
8	75	65	58	54	74	64	58	54	63	58	54	62	57	53	61	56	53	52				52
9	71	61	55	50	70	61	54	50	60	54	50	59	53	50	58	53	50	48				48
10	68	58	51	47	67	57	51	47	56	51	47	55	50	47	55	50	47	45				45

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	332385
5°	320673
10°	305160
15°	293498
20°	249013
25°	207726
30°	155488
35°	111643
40°	88103
45°	58426
50°	42674
55°	30230
60°	20807
65°	17921
70°	15667
75°	13399
80°	10887
85°	10912

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 58426 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.7	9.5
10°-20°	666.3	24.6
20°-30°	733.1	27.1
30°-40°	508.3	18.8
40°-50°	289.8	10.7
50°-60°	137.7	5.1
60°-70°	65.2	2.4
70°-80°	31.9	1.2
80°-90°	9.3	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°	1656.0	61.3
0°-40°	2164.3	80.1
0°-60°	2591.8	95.9
0°-90°	2698.1	99.8
90°-120°	5.5	0.2
90°-150°	5.5	0.2
90°-180°	5.0	0.2
0°-180°	2703.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2866	
5°	2754	257
15°	2444	666
25°	1623	733
35°	788	508
45°	356	290
55°	150	138
65°	65	65
75°	30	32
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°	2865.8
1°	2849.4
2°	2822.3
3°	2805.9
4°	2781.5
5°	2754.3
6°	2710.8
7°	2667.3
8°	2634.7
9°	2621.1
10°	2591.1
11°	2544.9
12°	2523.2
13°	2512.3
14°	2490.5
15°	2444.3
16°	2381.8
17°	2297.5
18°	2202.3
19°	2101.7
20°	2017.5
21°	1944.0
22°	1870.6
23°	1794.5
24°	1715.7
25°	1623.2
27.5°	1389.4
30°	1161.0
32.5°	946.2
35°	788.5
37.5°	674.3
40°	581.9
42.5°	464.9
45°	356.2
47.5°	285.5
50°	236.5
52.5°	193.0
55°	149.5
57.5°	114.2
60°	89.7
62.5°	76.1
65°	65.3
67.5°	54.4
70°	46.2
72.5°	38.1

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CANDELA DISTRIBUTION (continued):

	0°
75°	29.9
77.5°	21.8
80°	16.3
82.5°	10.9
85°	8.2
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)