

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: P702164

Luminaire Tested: 340-4C-35-D010 / 340-EU4C-3040-9035-4LBW1LI-GCC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702164
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-3040-9035-4LBW1LI-GCC
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, CLEAR INSIDE, CLEAR OUTSIDE GLA
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

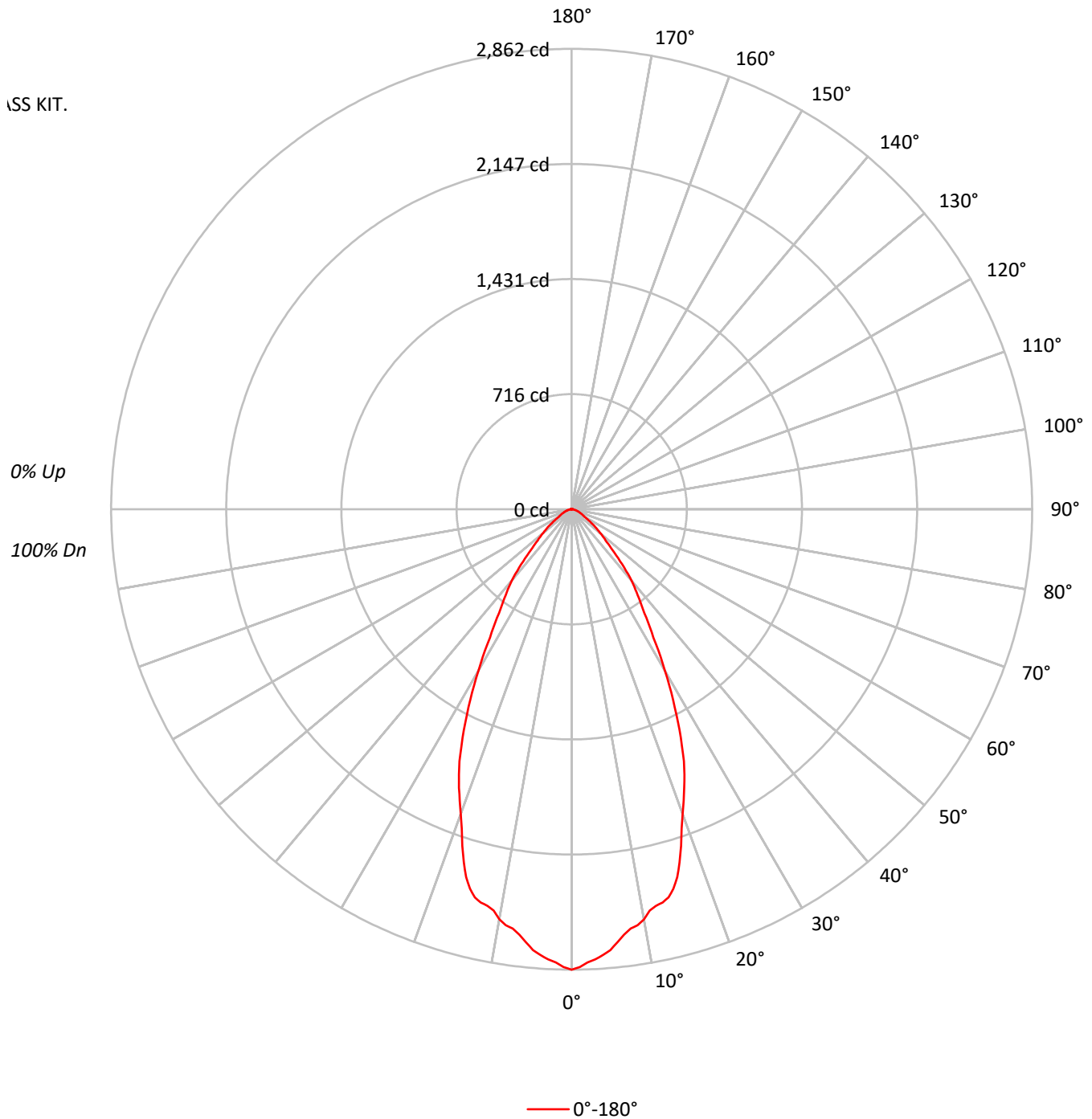
Lumens per Lamp: N/A
Luminaire Lumens: 2700.4 lumens
Efficiency: N/A
Efficacy: 66.8 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.34' x H: 0')
CIE Type: Direct

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°	331990
5°	320288
10°	304807
15°	293150
20°	248717
25°	207483
30°	155300
35°	111516
40°	87997
45°	58360
50°	42637
55°	30210
60°	20784
65°	17893
70°	15667
75°	13399
80°	10887
85°	10779

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 58360 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.4	9.5
10°-20°	665.5	24.6
20°-30°	732.2	27.1
30°-40°	507.7	18.8
40°-50°	289.4	10.7
50°-60°	137.6	5.1
60°-70°	65.1	2.4
70°-80°	31.8	1.2
80°-90°	9.2	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°	1654.1	61.3
0°-40°	2161.8	80.1
0°-60°	2588.8	95.9
0°-90°	2695.0	99.8
90°-120°	5.5	0.2
90°-150°	5.5	0.2
90°-180°	5.0	0.2
0°-180°	2700.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2862	
5°	2751	256
15°	2441	666
25°	1621	732
35°	788	508
45°	356	289
55°	149	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°	2862.4
1°	2846.1
2°	2818.9
3°	2802.6
4°	2778.2
5°	2751.0
6°	2707.6
7°	2664.1
8°	2631.6
9°	2618.0
10°	2588.1
11°	2541.9
12°	2520.2
13°	2509.3
14°	2487.6
15°	2441.4
16°	2379.0
17°	2294.8
18°	2199.7
19°	2099.3
20°	2015.1
21°	1941.8
22°	1868.4
23°	1792.4
24°	1713.6
25°	1621.3
27.5°	1387.7
30°	1159.6
32.5°	945.1
35°	787.6
37.5°	673.5
40°	581.2
42.5°	464.4
45°	355.8
47.5°	285.2
50°	236.3
52.5°	192.8
55°	149.4
57.5°	114.1
60°	89.6
62.5°	76.0
65°	65.2
67.5°	54.3
70°	46.2
72.5°	38.0

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CANDELA DISTRIBUTION (continued):

	0°
75°	29.9
77.5°	21.7
80°	16.3
82.5°	10.9
85°	8.1
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)