

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: P701828

Luminaire Tested: 340-4C-08-D010 / 340-EU4C-1020-9035-4LBW1LI-GCC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701828
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-08-D010 / 340-EU4C-1020-9035-4LBW1LI-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

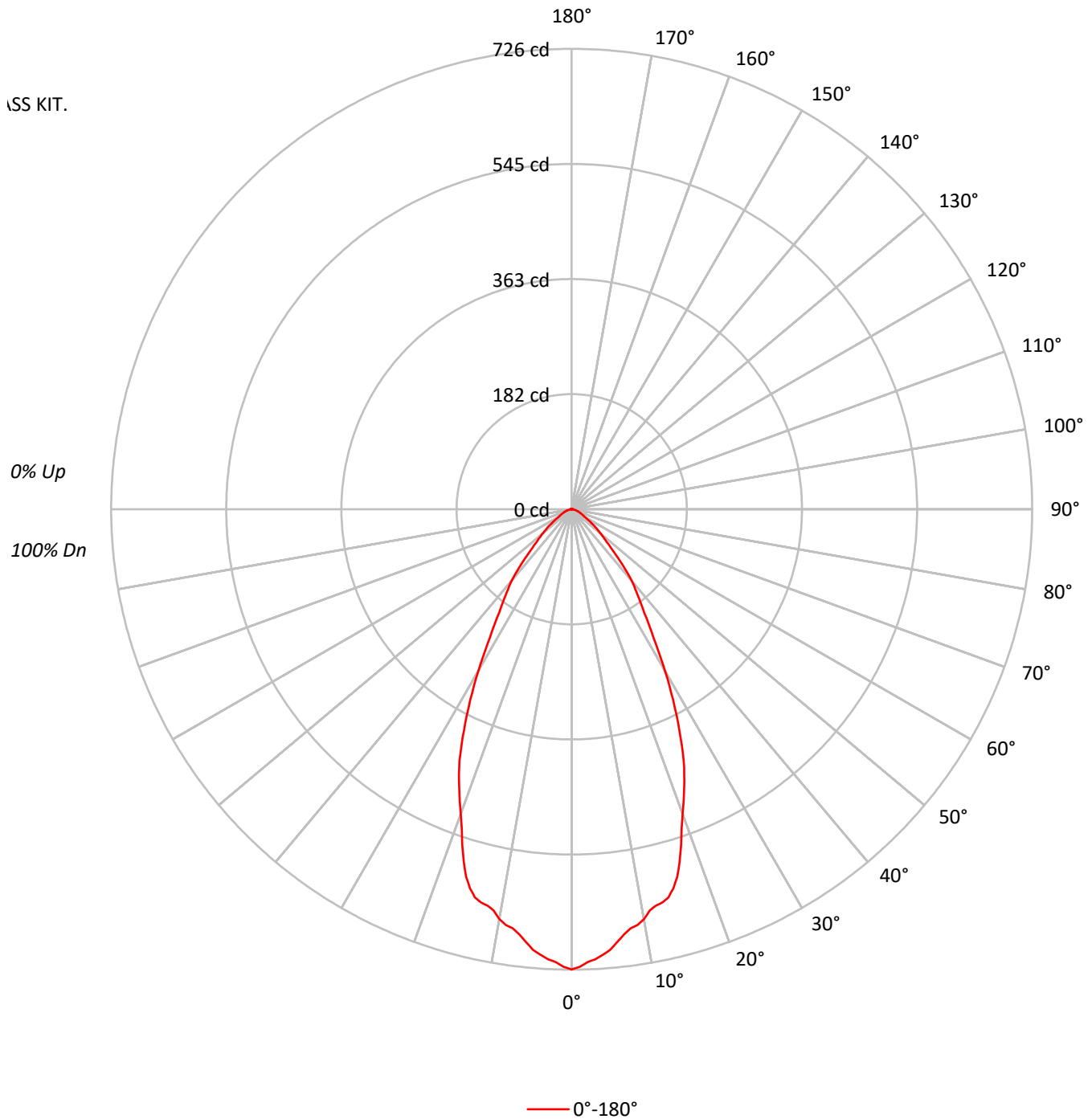
Lumens per Lamp: N/A
Luminaire Lumens: 684.7 lumens
Efficiency: N/A
Efficacy: 69.2 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.34' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
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	100	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	84	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°	84169
5°	81207
10°	77282
15°	74326
20°	63059
25°	52610
30°	39374
35°	28275
40°	22302
45°	14795
50°	10808
55°	7664
60°	5266
65°	4528
70°	3968
75°	3406
80°	2738
85°	2795

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14795 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.0	9.5
10°-20°	168.7	24.6
20°-30°	185.6	27.1
30°-40°	128.7	18.8
40°-50°	73.4	10.7
50°-60°	34.9	5.1
60°-70°	16.5	2.4
70°-80°	8.1	1.2
80°-90°	2.4	0.3
90°-100°	0.9	0.1
100°-110°	0.6	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°	419.4	61.2
0°-40°	548.1	80.0
0°-60°	656.3	95.9
0°-90°	683.3	99.8
90°-120°	1.4	0.2
90°-150°	1.4	0.2
90°-180°	1.0	0.1
0°-180°	684.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	726	
5°	698	65
15°	619	169
25°	411	186
35°	200	129
45°	90	73
55°	38	35
65°	16	17
75°	8	8
85°	2	2
90°	1	0
95°	1	1
105°	1	1
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°	725.7
1°	721.6
2°	714.7
3°	710.6
4°	704.4
5°	697.5
6°	686.5
7°	675.5
8°	667.2
9°	663.7
10°	656.2
11°	644.5
12°	639.0
13°	636.2
14°	630.7
15°	619.0
16°	603.2
17°	581.8
18°	557.7
19°	532.2
20°	510.9
21°	492.3
22°	473.7
23°	454.4
24°	434.5
25°	411.1
27.5°	351.8
30°	294.0
32.5°	239.6
35°	199.7
37.5°	170.8
40°	147.3
42.5°	117.7
45°	90.2
47.5°	72.3
50°	59.9
52.5°	48.9
55°	37.9
57.5°	28.9
60°	22.7
62.5°	19.3
65°	16.5
67.5°	13.8
70°	11.7
72.5°	9.6

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CANDELA DISTRIBUTION (continued):

	0°
75°	7.6
77.5°	5.5
80°	4.1
82.5°	2.8
85°	2.1
87.5°	1.4
90°	0.7
92.5°	0.7
95°	0.7
97.5°	0.7
100°	1.4
102.5°	0.7
105°	0.7
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)