

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: P701814

Luminaire Tested: 340-4C-08-D010 / 340-EU4C-1020-9027-4LBW1LI-GCC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701814
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-1020-9027-4LBW1LI-GCC
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, CLEAR INSIDE, CLEAR OUTSIDE GLA
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

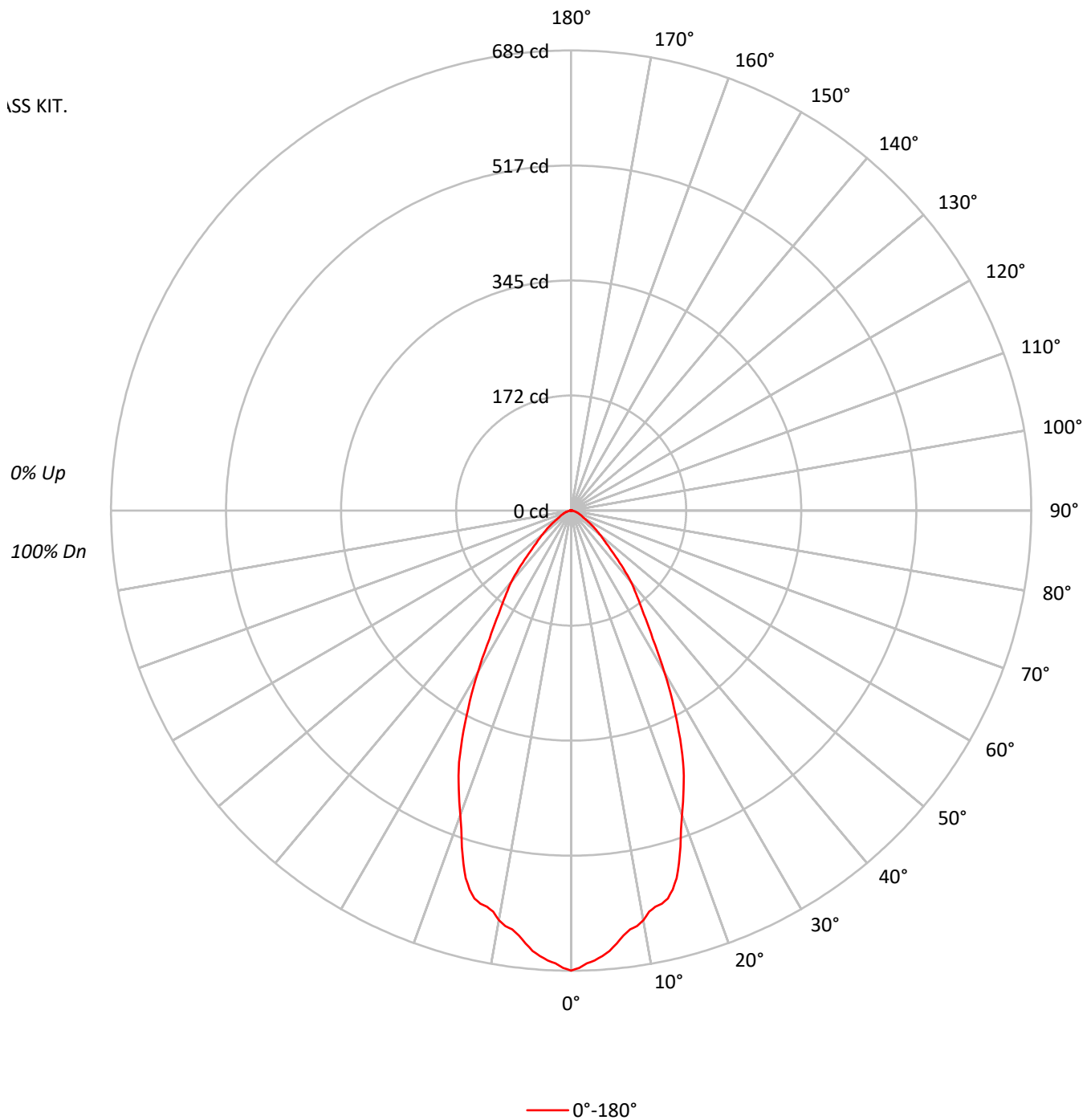
Lumens per Lamp: N/A
Luminaire Lumens: 649.9 lumens
Efficiency: N/A
Efficacy: 65.6 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.34' x H: 0')
CIE Type: Direct

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°	79889
5°	77074
10°	73349
15°	70544
20°	59850
25°	49935
30°	37379
35°	26831
40°	21182
45°	14041
50°	10267
55°	7259
60°	5010
65°	4309
70°	3764
75°	3226
80°	2605
85°	2662

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14041 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.7	9.5
10°-20°	160.2	24.6
20°-30°	176.2	27.1
30°-40°	122.2	18.8
40°-50°	69.7	10.7
50°-60°	33.1	5.1
60°-70°	15.7	2.4
70°-80°	7.6	1.2
80°-90°	2.2	0.3
90°-100°	0.8	0.1
100°-110°	0.5	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°	398.1	61.2
0°-40°	520.2	80.0
0°-60°	623.0	95.9
0°-90°	648.5	99.8
90°-120°	1.4	0.2
90°-150°	1.4	0.2
90°-180°	1.0	0.2
0°-180°	649.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	689	
5°	662	62
15°	588	160
25°	390	176
35°	190	122
45°	86	70
55°	36	33
65°	16	16
75°	7	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°	688.8
1°	684.9
2°	678.4
3°	674.4
4°	668.6
5°	662.0
6°	651.6
7°	641.1
8°	633.3
9°	630.0
10°	622.8
11°	611.7
12°	606.5
13°	603.9
14°	598.6
15°	587.5
16°	572.5
17°	552.2
18°	529.4
19°	505.2
20°	484.9
21°	467.3
22°	449.6
23°	431.3
24°	412.4
25°	390.2
27.5°	334.0
30°	279.1
32.5°	227.4
35°	189.5
37.5°	162.1
40°	139.9
42.5°	111.8
45°	85.6
47.5°	68.6
50°	56.9
52.5°	46.4
55°	35.9
57.5°	27.4
60°	21.6
62.5°	18.3
65°	15.7
67.5°	13.1
70°	11.1
72.5°	9.1

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CANDELA DISTRIBUTION (continued):

	0°
75°	7.2
77.5°	5.2
80°	3.9
82.5°	2.6
85°	2.0
87.5°	1.3
90°	0.7
92.5°	0.7
95°	0.7
97.5°	0.7
100°	1.3
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)