

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: P701870

Luminaire Tested: 340-4C-10-D010 / 340-EU4C-1020-9027-4LBW1LI-GCC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701870
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-10-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

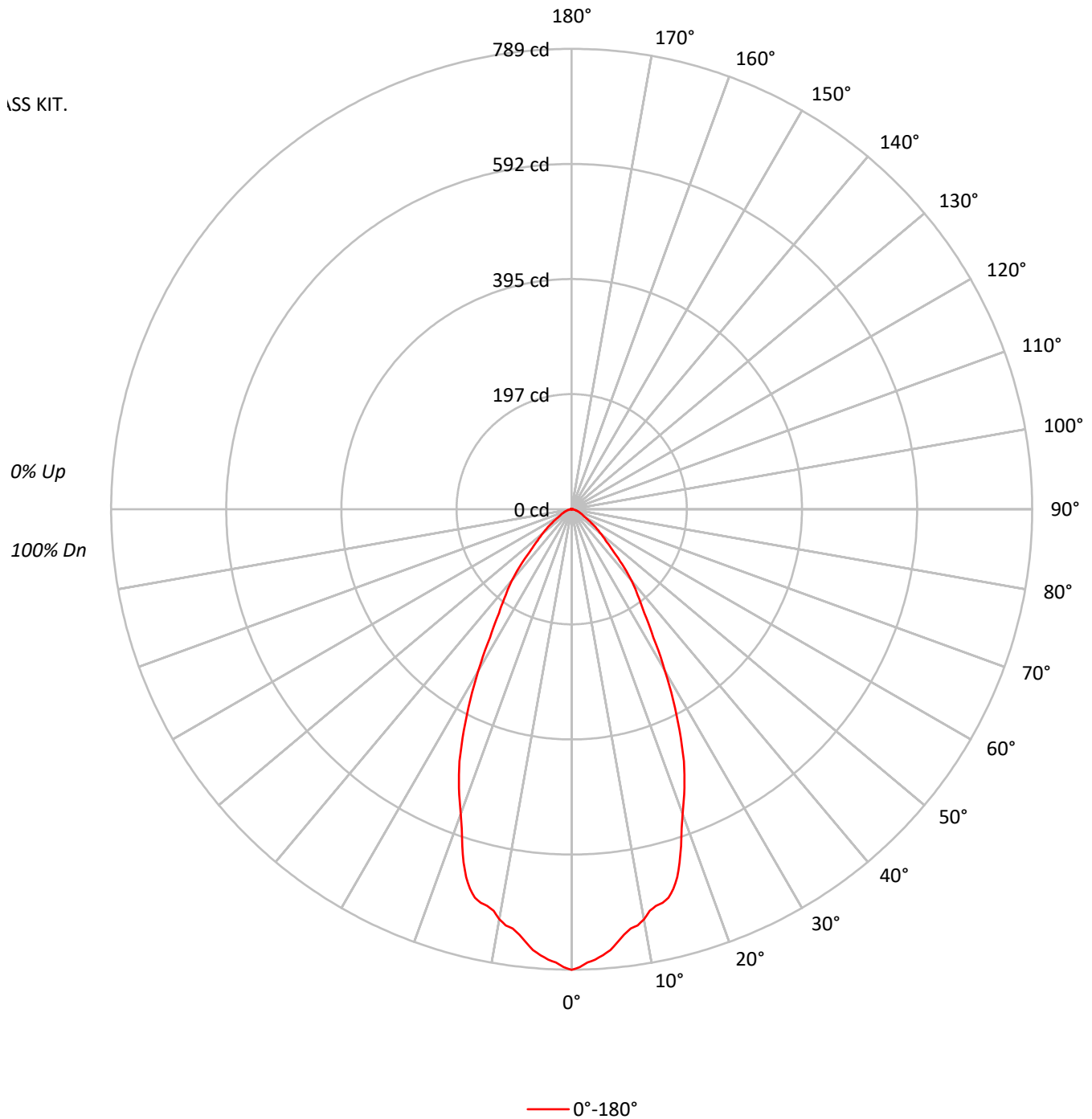
Lumens per Lamp: N/A
Luminaire Lumens: 744.6 lumens
Efficiency: N/A
Efficacy: 76.0 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.34' x H: 0')
CIE Type: Direct

Input Watts (W): 9.8
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		90	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°	91546
5°	88321
10°	84054
15°	80846
20°	68588
25°	57217
30°	42829
35°	30753
40°	24270
45°	16091
50°	11765
55°	8331
60°	5730
65°	4940
70°	4307
75°	3675
80°	3006
85°	2928

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16091 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.7	9.5
10°-20°	183.5	24.6
20°-30°	201.9	27.1
30°-40°	140.0	18.8
40°-50°	79.8	10.7
50°-60°	38.0	5.1
60°-70°	18.0	2.4
70°-80°	8.8	1.2
80°-90°	2.5	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°	456.1	61.3
0°-40°	596.1	80.1
0°-60°	713.9	95.9
0°-90°	743.2	99.8
90°-120°	1.4	0.2
90°-150°	1.4	0.2
90°-180°	1.0	0.1
0°-180°	744.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	789	
5°	759	71
15°	673	184
25°	447	202
35°	217	140
45°	98	80
55°	41	38
65°	18	18
75°	8	9
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°	789.3
1°	784.8
2°	777.3
3°	772.9
4°	766.1
5°	758.6
6°	746.6
7°	734.7
8°	725.7
9°	721.9
10°	713.7
11°	701.0
12°	695.0
13°	692.0
14°	686.0
15°	673.3
16°	656.0
17°	632.8
18°	606.6
19°	578.9
20°	555.7
21°	535.5
22°	515.2
23°	494.3
24°	472.6
25°	447.1
27.5°	382.7
30°	319.8
32.5°	260.6
35°	217.2
37.5°	185.7
40°	160.3
42.5°	128.1
45°	98.1
47.5°	78.6
50°	65.2
52.5°	53.2
55°	41.2
57.5°	31.5
60°	24.7
62.5°	21.0
65°	18.0
67.5°	15.0
70°	12.7
72.5°	10.5

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CANDELA DISTRIBUTION (continued):

	0°
75°	8.2
77.5°	6.0
80°	4.5
82.5°	3.0
85°	2.2
87.5°	1.5
90°	0.7
92.5°	0.7
95°	0.7
97.5°	0.7
100°	1.5
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)