

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: P702486

Luminaire Tested: 340-6C-20-D010 / 340-EU4C-1020-9027-4LBW1LI-GCC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702486
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-16)
Test Lab: INNOVATION CENTER
Issue Date: 8/30/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 340-6C-20-D010 / 340-EU4C-1020-9027-4LBW1LI-GCC
Description: FARALLON 6" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, CLEAR INSIDE, CLEAR OUTSIDE GLA
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

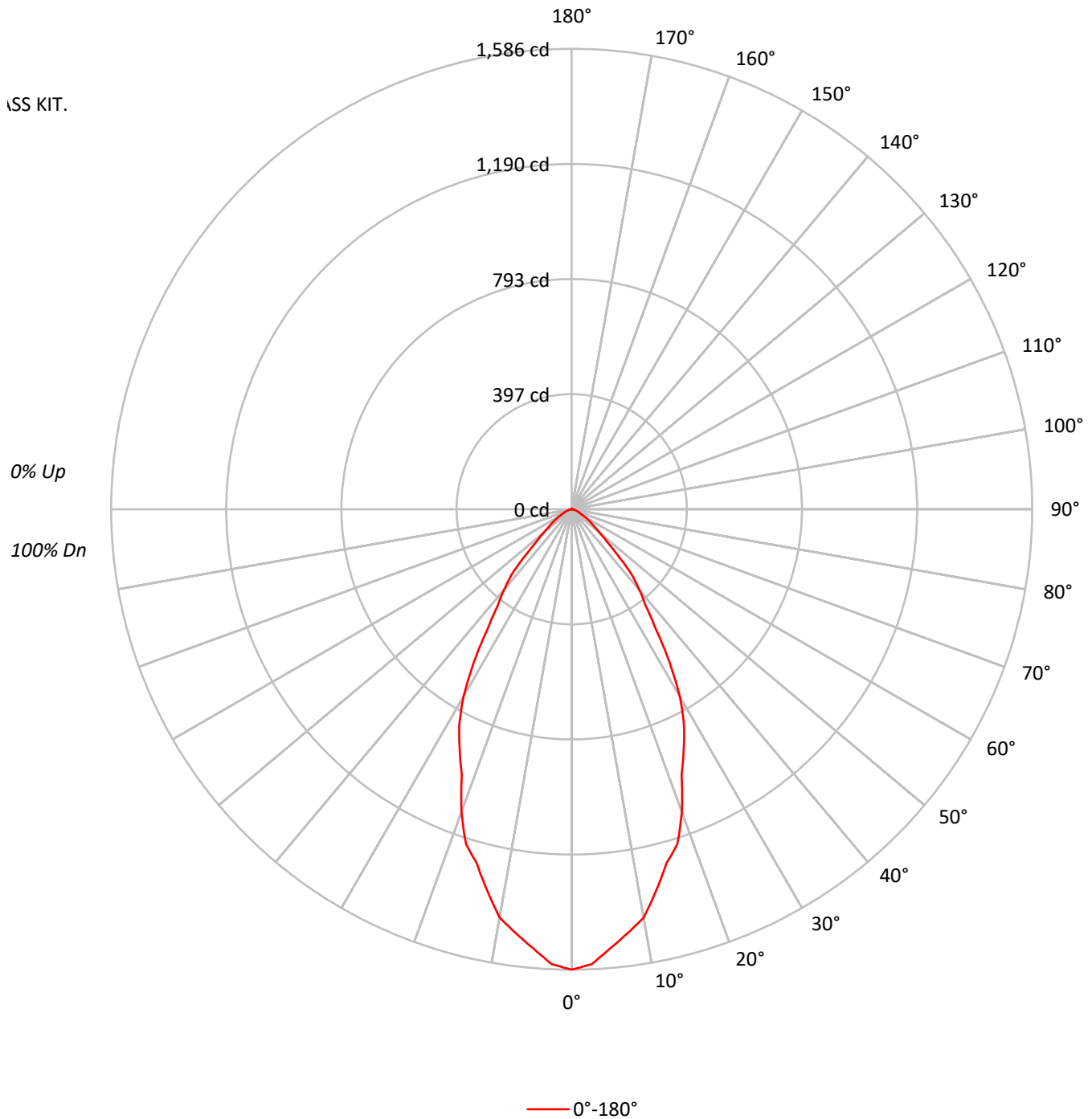
Lumens per Lamp: N/A
Luminaire Lumens: 1550.1 lumens
Efficiency: N/A
Efficacy: 71.1 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.82 / 0.89
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

Input Watts (W): 21.8
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	95	93	92
2	106	101	96	92	104	99	95	91	95	92	89		92	90	87		90	87	85	83
3	100	93	87	83	98	91	86	82	88	84	81		86	82	79		84	81	78	76
4	94	86	79	75	92	84	79	74	82	77	73		80	76	72		78	74	71	70
5	89	79	73	68	87	78	72	68	76	71	67		75	70	66		73	69	66	64
6	84	74	67	62	82	73	67	62	71	66	62		70	65	61		69	64	61	59
7	79	69	62	58	78	68	62	57	67	61	57		66	60	57		64	60	56	55
8	75	64	58	53	74	64	58	53	63	57	53		62	56	53		61	56	52	51
9	71	60	54	50	70	60	54	50	59	53	49		58	53	49		57	52	49	48
10	67	57	51	46	66	56	50	46	56	50	46		55	50	46		54	49	46	44

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	103452
5°	99453
10°	94607
15°	85279
20°	77044
25°	65722
30°	56086
35°	40395
40°	30838
45°	20732
50°	12829
55°	9236
60°	6720
65°	4585
70°	3872
75°	3151
80°	2931
85°	2321

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 20732 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.2	9.2
10°-20°	356.1	23.0
20°-30°	419.8	27.1
30°-40°	326.4	21.1
40°-50°	179.0	11.5
50°-60°	74.7	4.8
60°-70°	31.6	2.0
70°-80°	13.6	0.9
80°-90°	3.8	0.2
90°-100°	1.7	0.1
100°-110°	1.1	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°	918.2	59.2
0°-40°	1244.6	80.3
0°-60°	1498.3	96.7
0°-90°	1547.3	99.8
90°-120°	2.8	0.2
90°-150°	2.8	0.2
90°-180°	3.0	0.2
0°-180°	1550.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1586	
5°	1519	142
15°	1263	356
25°	913	420
35°	507	326
45°	225	179
55°	81	75
65°	30	32
75°	12	14
85°	3	3
90°	2	1
95°	2	1
105°	2	1
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°	1585.7
2.5°	1568.5
5°	1518.6
7.5°	1473.3
10°	1428.1
12.5°	1345.4
15°	1262.6
17.5°	1209.6
20°	1109.7
22.5°	989.5
25°	913.0
27.5°	838.1
30°	744.5
32.5°	630.5
35°	507.2
37.5°	418.3
40°	362.1
42.5°	307.5
45°	224.7
47.5°	162.3
50°	126.4
52.5°	99.9
55°	81.2
57.5°	65.6
60°	51.5
62.5°	37.5
65°	29.7
67.5°	25.0
70°	20.3
72.5°	15.6
75°	12.5
77.5°	9.4
80°	7.8
82.5°	4.7
85°	3.1
87.5°	1.6
90°	1.6
92.5°	1.6
95°	1.6
97.5°	1.6
100°	1.6
102.5°	1.6
105°	1.6
107.5°	0.0
110°	0.0

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CANDELA DISTRIBUTION (continued):

	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)