

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: P702045

Luminaire Tested: 340-4C-25-D010 / 340-EU4C-3040-9030-4LBW1LI-GCC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702045
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-25-D010 / 340-EU4C-3040-9030-4LBW1LI-GCC
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, CLEAR INSIDE, CLEAR OUTSIDE GLA
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

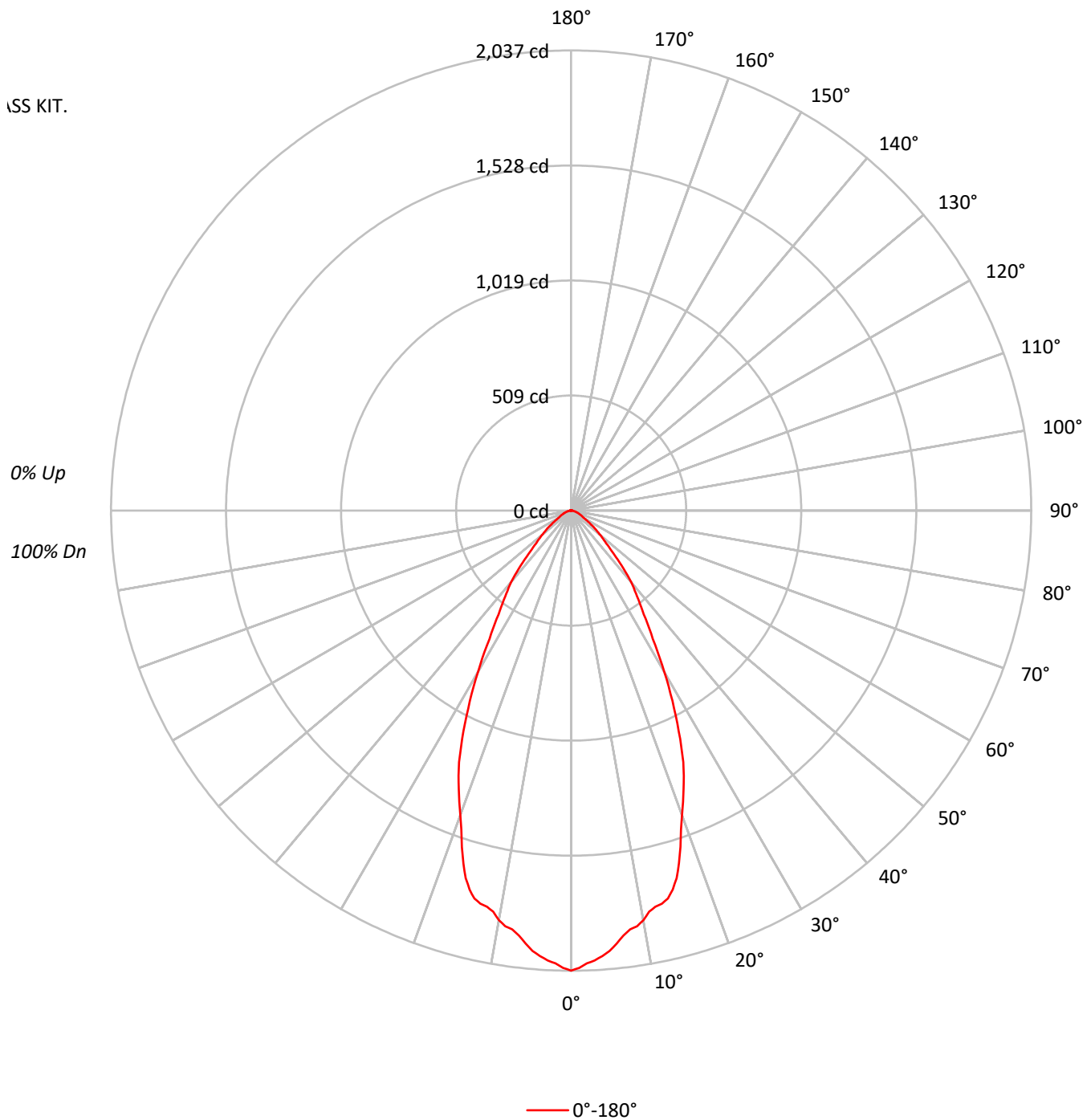
Lumens per Lamp: N/A
Luminaire Lumens: 1921.4 lumens
Efficiency: N/A
Efficacy: 61.0 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.34' x H: 0')
CIE Type: Direct

Input Watts (W): 31.5
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°	236211
5°	227893
10°	216866
15°	208582
20°	176957
25°	147630
30°	110502
35°	79347
40°	62606
45°	41515
50°	30332
55°	21495
60°	14799
65°	12734
70°	11123
75°	9545
80°	7748
85°	7718

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 41515 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.4	9.5
10°-20°	473.5	24.6
20°-30°	521.0	27.1
30°-40°	361.2	18.8
40°-50°	205.9	10.7
50°-60°	97.9	5.1
60°-70°	46.3	2.4
70°-80°	22.7	1.2
80°-90°	6.6	0.3
90°-100°	2.3	0.1
100°-110°	1.5	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°	1176.9	61.3
0°-40°	1538.1	80.1
0°-60°	1841.9	95.9
0°-90°	1917.5	99.8
90°-120°	3.9	0.2
90°-150°	3.9	0.2
90°-180°	4.0	0.2
0°-180°	1921.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2037	
5°	1957	182
15°	1737	474
25°	1154	521
35°	560	361
45°	253	206
55°	106	98
65°	46	46
75°	21	23
85°	6	6
90°	2	1
95°	2	2
105°	2	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°	2036.6
1°	2025.0
2°	2005.7
3°	1994.1
4°	1976.7
5°	1957.4
6°	1926.5
7°	1895.5
8°	1872.4
9°	1862.7
10°	1841.4
11°	1808.6
12°	1793.1
13°	1785.4
14°	1769.9
15°	1737.1
16°	1692.7
17°	1632.8
18°	1565.1
19°	1493.6
20°	1433.7
21°	1381.6
22°	1329.4
23°	1275.3
24°	1219.3
25°	1153.6
27.5°	987.4
30°	825.1
32.5°	672.4
35°	560.4
37.5°	479.2
40°	413.5
42.5°	330.4
45°	253.1
47.5°	202.9
50°	168.1
52.5°	137.2
55°	106.3
57.5°	81.2
60°	63.8
62.5°	54.1
65°	46.4
67.5°	38.6
70°	32.8
72.5°	27.1

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CANDELA DISTRIBUTION (continued):

	0°
75°	21.3
77.5°	15.5
80°	11.6
82.5°	7.7
85°	5.8
87.5°	3.9
90°	1.9
92.5°	1.9
95°	1.9
97.5°	1.9
100°	3.9
102.5°	1.9
105°	1.9
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)