

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: P702080

Luminaire Tested: 340-4C-25-D010 / 340-EU4C-3040-9730-4LBW1LI-GCC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702080
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-3040-9730-4LBW1LI-GCC
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, CLEAR INSIDE, CLEAR OUTSIDE GLA
Light Source: 3000K CCT, 97 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

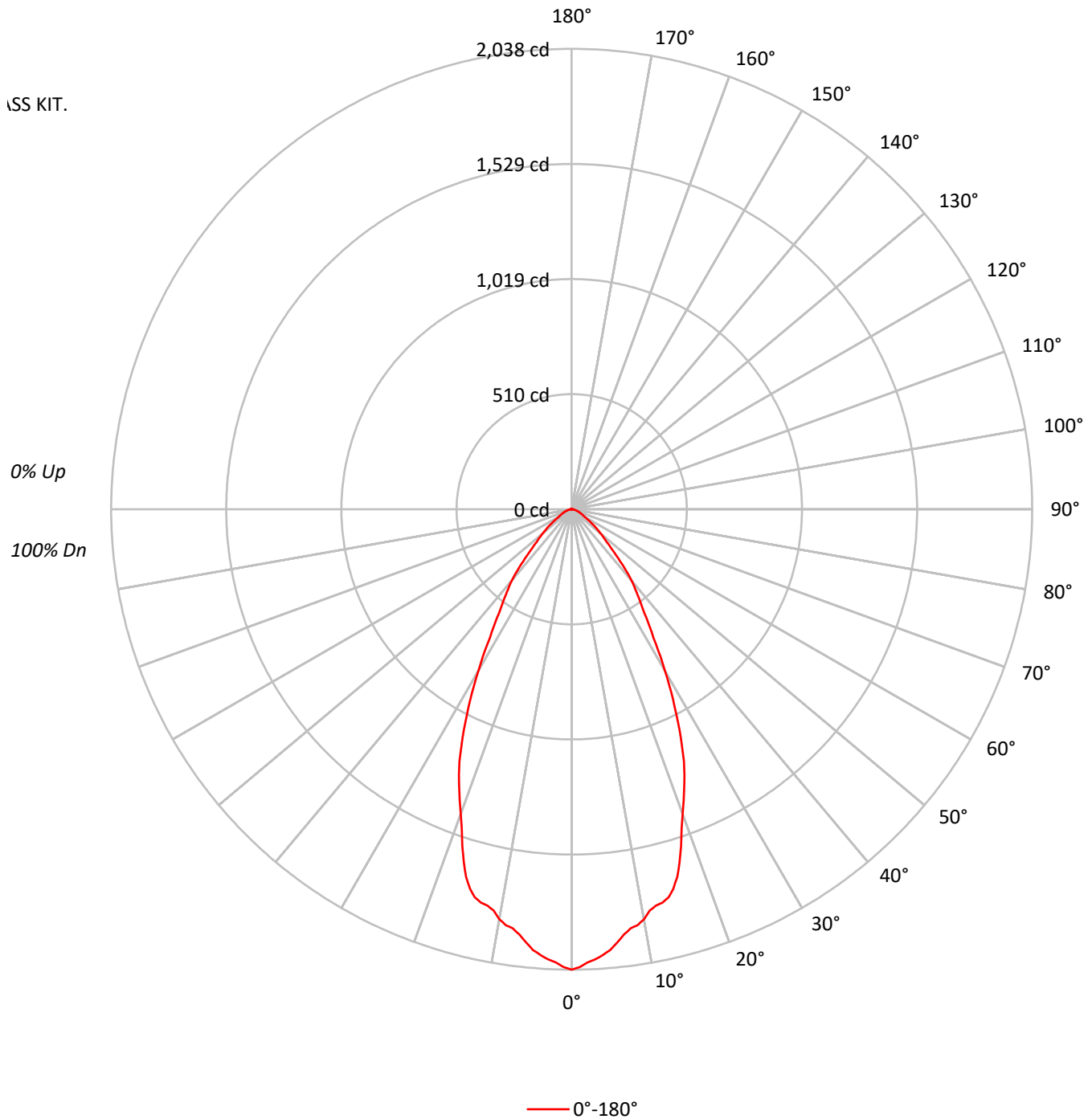
Lumens per Lamp: N/A
Luminaire Lumens: 1922.6 lumens
Efficiency: N/A
Efficacy: 61.0 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.34' x H: 0')
CIE Type: Direct

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°	236374
5°	228044
10°	217019
15°	208726
20°	177080
25°	147720
30°	110569
35°	79389
40°	62652
45°	41548
50°	30350
55°	21495
60°	14799
65°	12734
70°	11157
75°	9545
80°	7748
85°	7718

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 41548 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.5	9.5
10°-20°	473.9	24.6
20°-30°	521.3	27.1
30°-40°	361.4	18.8
40°-50°	206.1	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°	1177.7	61.3
0°-40°	1539.1	80.1
0°-60°	1843.1	95.9
0°-90°	1918.8	99.8
90°-120°	3.9	0.2
90°-150°	3.9	0.2
90°-180°	4.0	0.2
0°-180°	1922.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2038	
5°	1959	183
15°	1738	474
25°	1154	521
35°	561	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°	2038.0
1°	2026.4
2°	2007.1
3°	1995.5
4°	1978.0
5°	1958.7
6°	1927.8
7°	1896.8
8°	1873.6
9°	1864.0
10°	1842.7
11°	1809.8
12°	1794.4
13°	1786.6
14°	1771.2
15°	1738.3
16°	1693.8
17°	1633.9
18°	1566.2
19°	1494.7
20°	1434.7
21°	1382.5
22°	1330.3
23°	1276.2
24°	1220.1
25°	1154.3
27.5°	988.1
30°	825.6
32.5°	672.9
35°	560.7
37.5°	479.5
40°	413.8
42.5°	330.6
45°	253.3
47.5°	203.0
50°	168.2
52.5°	137.3
55°	106.3
57.5°	81.2
60°	63.8
62.5°	54.1
65°	46.4
67.5°	38.7
70°	32.9
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)