

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: P702031

Luminaire Tested: 340-4C-25-D010 / 340-EU4C-3040-9024-4LBW1LI-GCC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702031
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-3040-9024-4LBW1LI-GCC
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, CLEAR INSIDE, CLEAR OUTSIDE GLA
Light Source: 2400K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

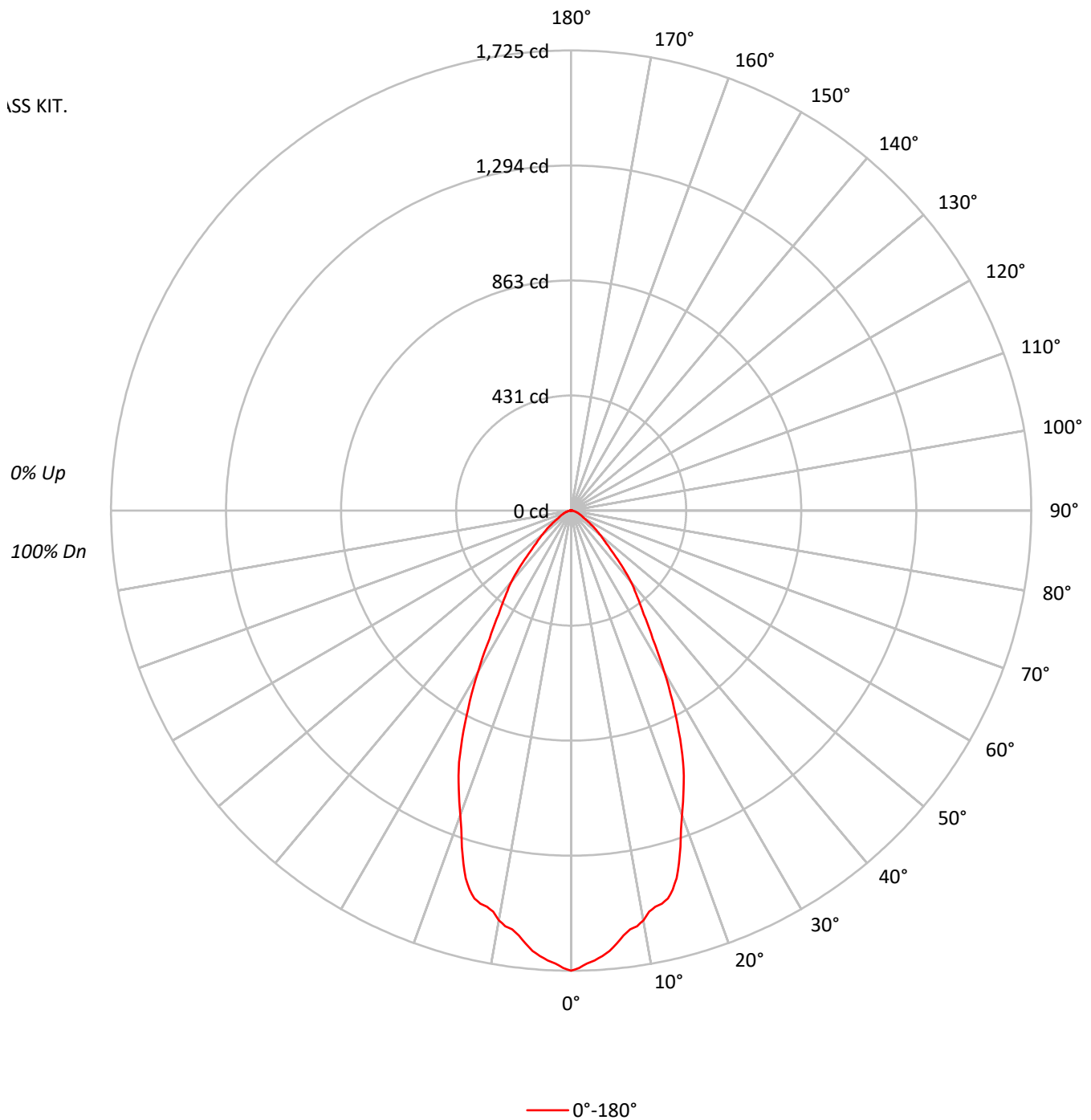
Lumens per Lamp: N/A
Luminaire Lumens: 1627.1 lumens
Efficiency: N/A
Efficacy: 51.7 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.34' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P702031

CATALOG NUMBER: 340-4C-25-D010 / 340-EU4C-3040-9024-4LBW1LI-GCC

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°	200036
5°	192988
10°	183666
15°	176642
20°	149865
25°	125017
30°	93574
35°	67184
40°	53022
45°	35167
50°	25694
55°	18199
60°	12526
65°	10785
70°	9427
75°	8066
80°	6546
85°	6521

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 35167 cd/sqm

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CATALOG NUMBER: 340-4C-25-D010 / 340-EU4C-3040-9024-4LBW1LI-GCC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.5	9.5
10°-20°	401.0	24.6
20°-30°	441.2	27.1
30°-40°	305.9	18.8
40°-50°	174.4	10.7
50°-60°	82.9	5.1
60°-70°	39.2	2.4
70°-80°	19.2	1.2
80°-90°	5.6	0.3
90°-100°	2.0	0.1
100°-110°	1.3	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°	996.7	61.3
0°-40°	1302.6	80.1
0°-60°	1559.9	95.9
0°-90°	1623.8	99.8
90°-120°	3.3	0.2
90°-150°	3.3	0.2
90°-180°	3.0	0.2
0°-180°	1627.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1725	
5°	1658	154
15°	1471	401
25°	977	441
35°	474	306
45°	214	174
55°	90	83
65°	39	39
75°	18	19
85°	5	5
90°	2	1
95°	2	2
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

TEST NUMBER: P702031

CATALOG NUMBER: 340-4C-25-D010 / 340-EU4C-3040-9024-4LBW1LI-GCC

CANDELA DISTRIBUTION (FULL):

0°	
0°	1724.7
1°	1714.9
2°	1698.6
3°	1688.7
4°	1674.0
5°	1657.6
6°	1631.5
7°	1605.3
8°	1585.6
9°	1577.5
10°	1559.5
11°	1531.6
12°	1518.6
13°	1512.0
14°	1498.9
15°	1471.1
16°	1433.5
17°	1382.7
18°	1325.5
19°	1264.9
20°	1214.2
21°	1170.0
22°	1125.8
23°	1080.0
24°	1032.5
25°	976.9
27.5°	836.2
30°	698.7
32.5°	569.5
35°	474.5
37.5°	405.8
40°	350.2
42.5°	279.8
45°	214.4
47.5°	171.8
50°	142.4
52.5°	116.2
55°	90.0
57.5°	68.7
60°	54.0
62.5°	45.8
65°	39.3
67.5°	32.7
70°	27.8
72.5°	22.9

TEST NUMBER: P702031

CATALOG NUMBER: 340-4C-25-D010 / 340-EU4C-3040-9024-4LBW1LI-GCC

CANDELA DISTRIBUTION (continued):

	0°
75°	18.0
77.5°	13.1
80°	9.8
82.5°	6.5
85°	4.9
87.5°	3.3
90°	1.6
92.5°	1.6
95°	1.6
97.5°	1.6
100°	3.3
102.5°	1.6
105°	1.6
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)