

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: P702108

Luminaire Tested: 340-4C-30-D010 / 340-EU4C-3040-9035-4LBW1LI-GCC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702108
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-30-D010 / 340-EU4C-3040-9035-4LBW1LI-GCC
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, CLEAR INSIDE, CLEAR OUTSIDE GLA
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

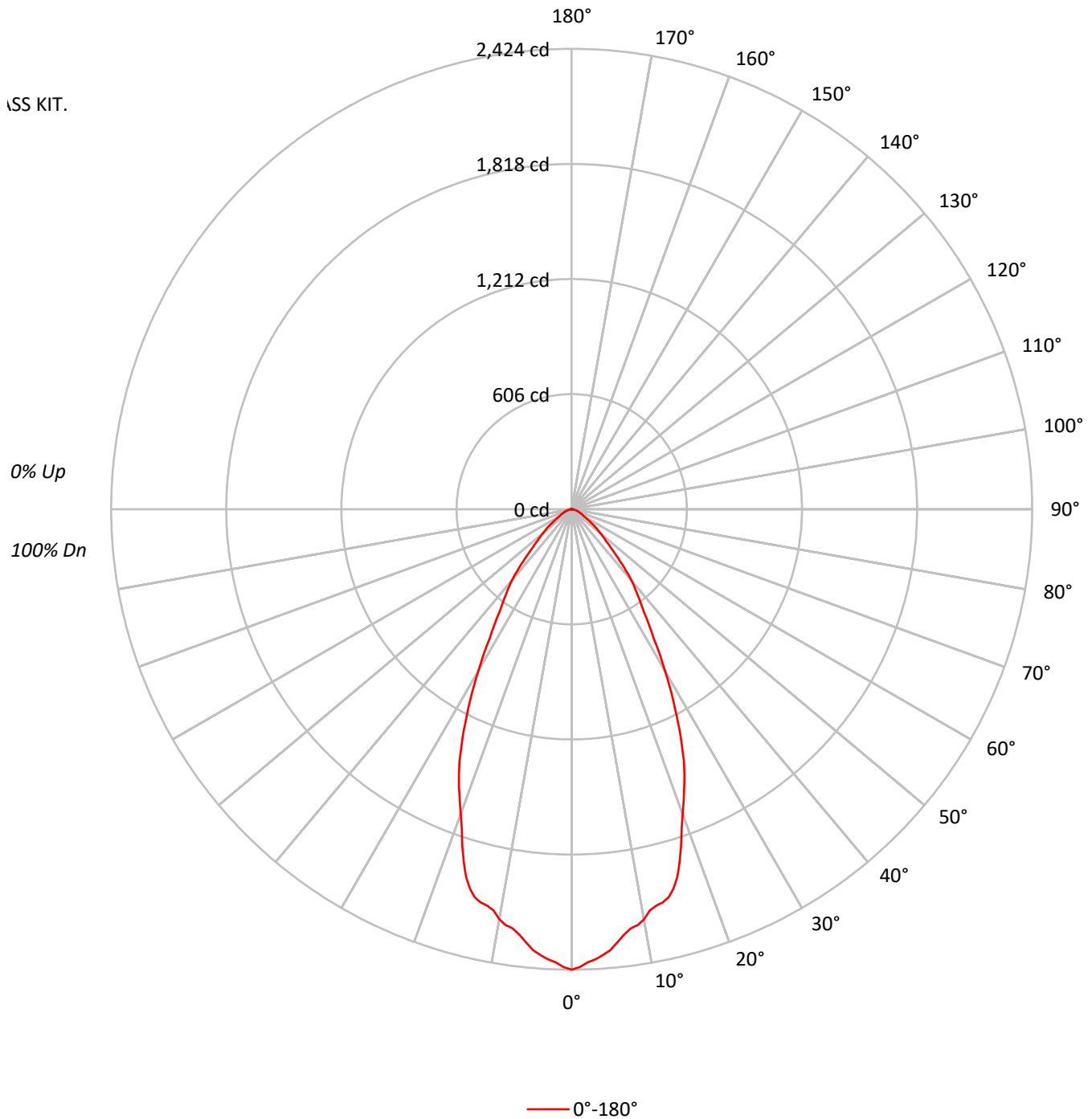
Lumens per Lamp: N/A
Luminaire Lumens: 2287.2 lumens
Efficiency: N/A
Efficacy: 72.4 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.34' x H: 0')
CIE Type: Direct

Input Watts (W): 31.6
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: P702108

CATALOG NUMBER: 340-4C-30-D010 / 340-EU4C-3040-9035-4LBW1LI-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		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°	281190
5°	271273
10°	258157
15°	248290
20°	210652
25°	175733
30°	131542
35°	94440
40°	74522
45°	49421
50°	36106
55°	25580
60°	17606
65°	15149
70°	13259
75°	11338
80°	9217
85°	9182

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 49421 cd/sqm

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CATALOG NUMBER: 340-4C-30-D010 / 340-EU4C-3040-9035-4LBW1LI-GCC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.1	9.5
10°-20°	563.7	24.6
20°-30°	620.2	27.1
30°-40°	430.0	18.8
40°-50°	245.1	10.7
50°-60°	116.5	5.1
60°-70°	55.1	2.4
70°-80°	27.0	1.2
80°-90°	7.8	0.3
90°-100°	2.8	0.1
100°-110°	1.8	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°	1401.0	61.3
0°-40°	1830.9	80.1
0°-60°	2192.6	95.9
0°-90°	2282.5	99.8
90°-120°	4.7	0.2
90°-150°	4.7	0.2
90°-180°	5.0	0.2
0°-180°	2287.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2424	
5°	2330	217
15°	2068	564
25°	1373	620
35°	667	430
45°	301	245
55°	126	117
65°	55	55
75°	25	27
85°	7	7
90°	2	2
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

TEST NUMBER: P702108

CATALOG NUMBER: 340-4C-30-D010 / 340-EU4C-3040-9035-4LBW1LI-GCC

CANDELA DISTRIBUTION (FULL):

0°	
0°	2424.4
1°	2410.6
2°	2387.5
3°	2373.7
4°	2353.0
5°	2330.0
6°	2293.2
7°	2256.4
8°	2228.8
9°	2217.3
10°	2192.0
11°	2152.9
12°	2134.5
13°	2125.3
14°	2106.9
15°	2067.8
16°	2014.9
17°	1943.6
18°	1863.1
19°	1778.0
20°	1706.7
21°	1644.6
22°	1582.5
23°	1518.1
24°	1451.4
25°	1373.2
27.5°	1175.4
30°	982.2
32.5°	800.5
35°	667.0
37.5°	570.4
40°	492.2
42.5°	393.3
45°	301.3
47.5°	241.5
50°	200.1
52.5°	163.3
55°	126.5
57.5°	96.6
60°	75.9
62.5°	64.4
65°	55.2
67.5°	46.0
70°	39.1
72.5°	32.2

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CATALOG NUMBER: 340-4C-30-D010 / 340-EU4C-3040-9035-4LBW1LI-GCC

CANDELA DISTRIBUTION (continued):

	0°
75°	25.3
77.5°	18.4
80°	13.8
82.5°	9.2
85°	6.9
87.5°	4.6
90°	2.3
92.5°	2.3
95°	2.3
97.5°	2.3
100°	4.6
102.5°	2.3
105°	2.3
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)