

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: P702241

Luminaire Tested: 340-4C-40-D010 / 340-EU4C-3040-9727-4LBW1LI-GCC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702241
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-40-D010 / 340-EU4C-3040-9727-4LBW1LI-GCC
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, CLEAR INSIDE, CLEAR OUTSIDE GLA
Light Source: 2700K CCT, 97 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

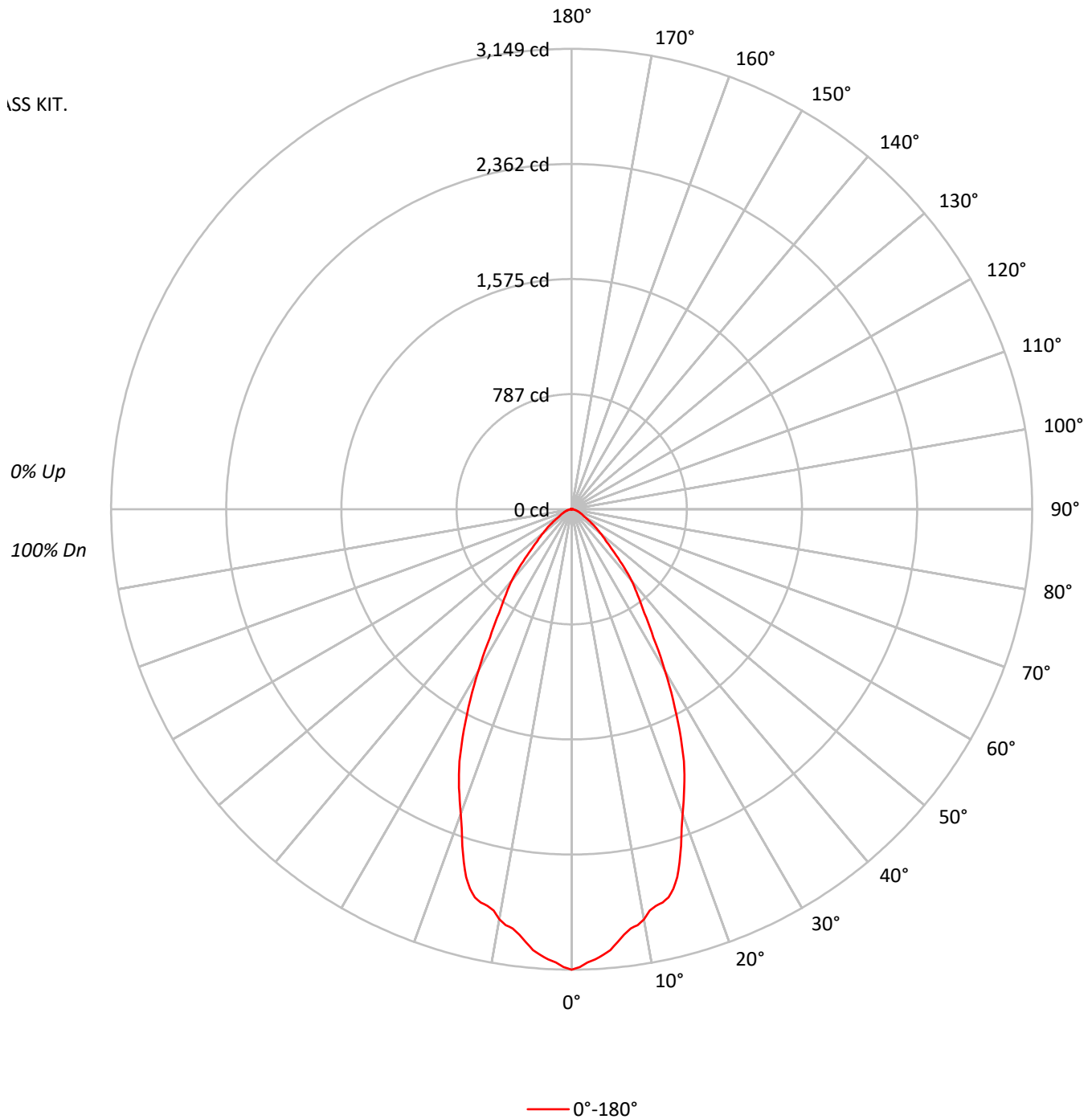
Lumens per Lamp: N/A
Luminaire Lumens: 2971.2 lumens
Efficiency: N/A
Efficacy: 63.2 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.34' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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: P702241

CATALOG NUMBER: 340-4C-40-D010 / 340-EU4C-3040-9727-4LBW1LI-GCC

Luminous Intensity Polar Plot



TEST NUMBER: P702241

CATALOG NUMBER: 340-4C-40-D010 / 340-EU4C-3040-9727-4LBW1LI-GCC

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°	365266
5°	352399
10°	335369
15°	322544
20°	273649
25°	228279
30°	170876
35°	122687
40°	96809
45°	64199
50°	46914
55°	33223
60°	22872
65°	19677
70°	17227
75°	14743
80°	11956
85°	11977

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 64199 cd/sqm

TEST NUMBER: P702241

CATALOG NUMBER: 340-4C-40-D010 / 340-EU4C-3040-9727-4LBW1LI-GCC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.1	9.5
10°-20°	732.3	24.6
20°-30°	805.6	27.1
30°-40°	558.5	18.8
40°-50°	318.4	10.7
50°-60°	151.4	5.1
60°-70°	71.6	2.4
70°-80°	35.0	1.2
80°-90°	10.2	0.3
90°-100°	3.7	0.1
100°-110°	2.4	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°	1819.9	61.3
0°-40°	2378.5	80.1
0°-60°	2848.2	95.9
0°-90°	2965.1	99.8
90°-120°	6.1	0.2
90°-150°	6.1	0.2
90°-180°	6.0	0.2
0°-180°	2971.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3149	
5°	3027	282
15°	2686	732
25°	1784	806
35°	866	559
45°	391	318
55°	164	151
65°	72	72
75°	33	35
85°	9	9
90°	3	2
95°	3	3
105°	3	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: P702241

CATALOG NUMBER: 340-4C-40-D010 / 340-EU4C-3040-9727-4LBW1LI-GCC

CANDELA DISTRIBUTION (FULL):

0°	
0°	3149.3
1°	3131.4
2°	3101.5
3°	3083.6
4°	3056.7
5°	3026.8
6°	2979.0
7°	2931.2
8°	2895.4
9°	2880.4
10°	2847.6
11°	2796.8
12°	2772.9
13°	2760.9
14°	2737.0
15°	2686.2
16°	2617.5
17°	2524.9
18°	2420.3
19°	2309.7
20°	2217.1
21°	2136.4
22°	2055.7
23°	1972.1
24°	1885.4
25°	1783.8
27.5°	1526.9
30°	1275.9
32.5°	1039.8
35°	866.5
37.5°	741.0
40°	639.4
42.5°	510.9
45°	391.4
47.5°	313.7
50°	260.0
52.5°	212.1
55°	164.3
57.5°	125.5
60°	98.6
62.5°	83.7
65°	71.7
67.5°	59.8
70°	50.8
72.5°	41.8

TEST NUMBER: P702241

CATALOG NUMBER: 340-4C-40-D010 / 340-EU4C-3040-9727-4LBW1LI-GCC

CANDELA DISTRIBUTION (continued):

	0°
75°	32.9
77.5°	23.9
80°	17.9
82.5°	12.0
85°	9.0
87.5°	6.0
90°	3.0
92.5°	3.0
95°	3.0
97.5°	3.0
100°	6.0
102.5°	3.0
105°	3.0
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)