

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: P701751

Luminaire Tested: 340-4C-05-D010 / 340-EU4C-1020-9024-4LBW1LI-GCC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701751
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-05-D010 / 340-EU4C-1020-9024-4LBW1LI-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

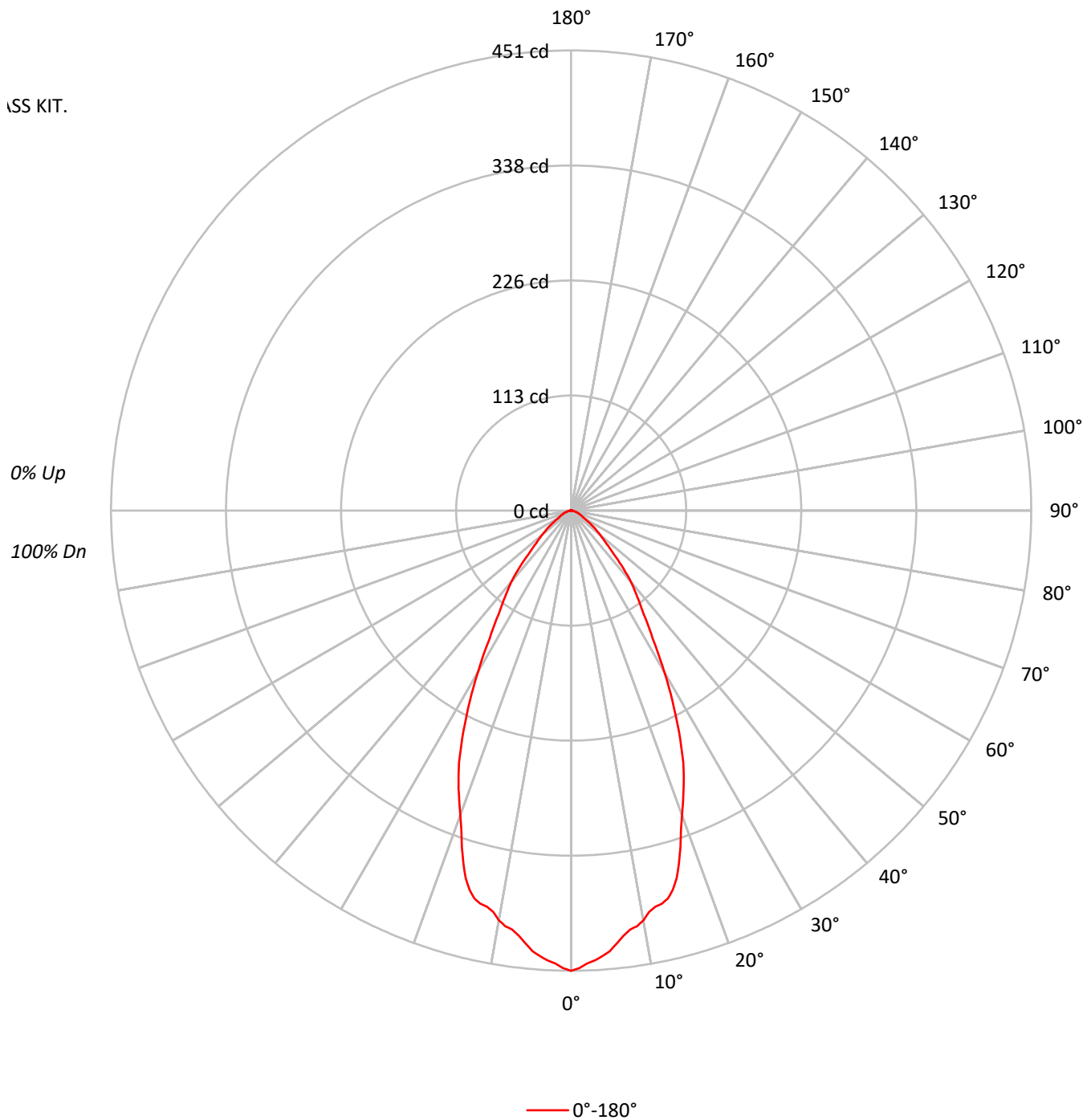
Lumens per Lamp: N/A
Luminaire Lumens: 425.5 lumens
Efficiency: N/A
Efficacy: 59.1 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.34' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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: P701751

CATALOG NUMBER: 340-4C-05-D010 / 340-EU4C-1020-9024-4LBW1LI-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		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°	52320
5°	50471
10°	48028
15°	46193
20°	39188
25°	32697
30°	24468
35°	17571
40°	13869
45°	9202
50°	6712
55°	4752
60°	3271
65°	2827
70°	2476
75°	2106
80°	1737
85°	1730

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9202 cd/sqm

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CATALOG NUMBER: 340-4C-05-D010 / 340-EU4C-1020-9024-4LBW1LI-GCC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.4	9.5
10°-20°	104.9	24.6
20°-30°	115.4	27.1
30°-40°	80.0	18.8
40°-50°	45.6	10.7
50°-60°	21.7	5.1
60°-70°	10.3	2.4
70°-80°	5.0	1.2
80°-90°	1.5	0.3
90°-100°	0.5	0.1
100°-110°	0.3	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°	260.6	61.3
0°-40°	340.6	80.0
0°-60°	407.9	95.9
0°-90°	424.7	99.8
90°-120°	0.8	0.2
90°-150°	0.8	0.2
90°-180°	1.0	0.2
0°-180°	425.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	451	
5°	434	40
15°	385	105
25°	256	115
35°	124	80
45°	56	46
55°	24	22
65°	10	10
75°	5	5
85°	1	1
90°	0	0
95°	0	0
105°	0	0
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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CATALOG NUMBER: 340-4C-05-D010 / 340-EU4C-1020-9024-4LBW1LI-GCC

CANDELA DISTRIBUTION (FULL):

0°	
0°	451.1
1°	448.5
2°	444.2
3°	441.6
4°	437.8
5°	433.5
6°	426.7
7°	419.8
8°	414.7
9°	412.5
10°	407.8
11°	400.6
12°	397.1
13°	395.4
14°	392.0
15°	384.7
16°	374.9
17°	361.6
18°	346.6
19°	330.8
20°	317.5
21°	306.0
22°	294.4
23°	282.4
24°	270.0
25°	255.5
27.5°	218.7
30°	182.7
32.5°	148.9
35°	124.1
37.5°	106.1
40°	91.6
42.5°	73.2
45°	56.1
47.5°	44.9
50°	37.2
52.5°	30.4
55°	23.5
57.5°	18.0
60°	14.1
62.5°	12.0
65°	10.3
67.5°	8.6
70°	7.3
72.5°	6.0

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CATALOG NUMBER: 340-4C-05-D010 / 340-EU4C-1020-9024-4LBW1LI-GCC

CANDELA DISTRIBUTION (continued):

	0°
75°	4.7
77.5°	3.4
80°	2.6
82.5°	1.7
85°	1.3
87.5°	0.9
90°	0.4
92.5°	0.4
95°	0.4
97.5°	0.4
100°	0.9
102.5°	0.4
105°	0.4
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)