

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: P702040

Luminaire Tested: 340-4C-25-D010 / 340-EU4C-3040-9027-4LBW1LI-GFF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702040
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-6)
Test Lab: INNOVATION CENTER
Issue Date: 8/30/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 340-4C-25-D010 / 340-EU4C-3040-9027-4LBW1LI-GFF
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, FROSTED OUTSIDE KIT.
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

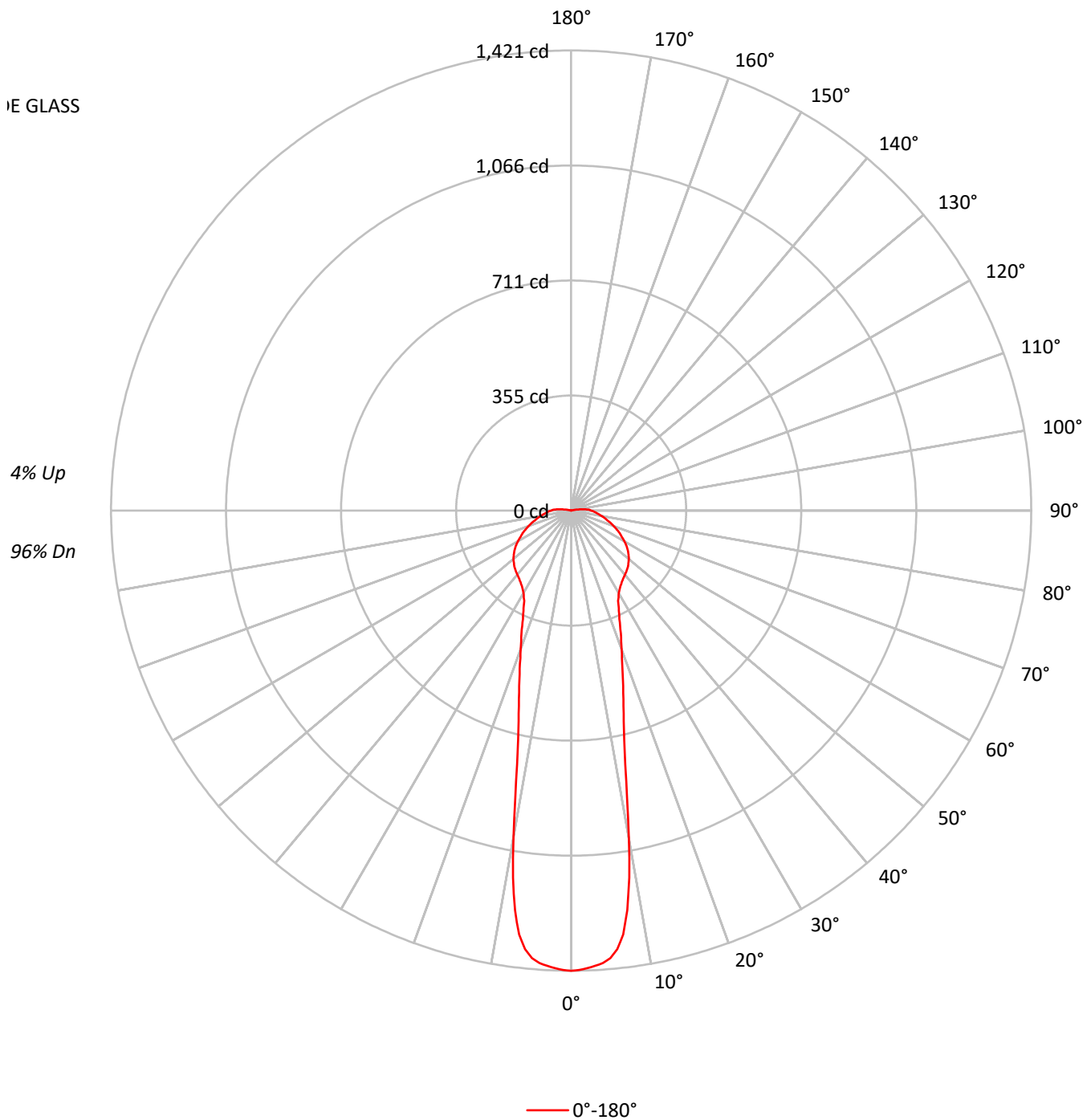
Lumens per Lamp: N/A
Luminaire Lumens: 1440.3 lumens
Efficiency: N/A
Efficacy: 45.7 lumens/watt
Spacing Criteria (0/90/45): 0.44 / 0.44 / 0.54
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

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	118	118	118	118	115	115	115	115	109	109	109		104	104	104		99	99	99	96
1	107	101	96	92	103	98	94	90	94	90	87		89	86	83		85	82	80	78
2	97	88	81	75	94	86	79	74	82	76	72		78	73	69		74	71	67	65
3	89	78	70	63	86	76	69	62	73	66	61		69	64	59		66	62	58	55
4	82	70	61	54	79	68	60	54	65	58	53		63	57	52		60	55	51	48
5	76	63	54	48	74	62	54	47	59	52	47		57	51	46		55	49	45	43
6	71	58	49	43	69	57	48	42	54	47	42		52	46	41		51	45	40	38
7	66	53	45	39	64	52	44	38	50	43	38		49	42	37		47	41	37	35
8	62	49	41	35	60	48	41	35	47	40	35		45	39	34		44	38	34	32
9	59	46	38	33	57	45	38	32	44	37	32		42	36	32		41	36	31	30
10	55	43	35	30	54	42	35	30	41	34	30		40	34	30		39	33	29	28

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	164824
5°	140661
10°	93060
15°	51583
20°	34765
25°	24979
30°	19878
35°	17570
40°	16143
45°	15043
50°	13877
55°	12630
60°	11167
65°	9787
70°	8352
75°	7043
80°	5964
85°	5094

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15043 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.1	8.5
10°-20°	179.0	12.4
20°-30°	163.7	11.4
30°-40°	171.2	11.9
40°-50°	190.6	13.2
50°-60°	190.5	13.2
60°-70°	163.3	11.3
70°-80°	123.3	8.6
80°-90°	85.2	5.9
90°-100°	45.2	3.1
100°-110°	6.2	0.4
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°	464.8	32.3
0°-40°	636.0	44.2
0°-60°	1017.1	70.6
0°-90°	1388.9	96.4
90°-120°	51.4	3.6
90°-150°	51.4	3.6
90°-180°	51.0	3.5
0°-180°	1440.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1421	
5°	1388	122
15°	625	179
25°	350	164
35°	272	171
45°	247	191
55°	214	190
65°	166	163
75°	115	123
85°	78	67
90°	61	34
95°	43	29
105°	4	6
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°	1421.1
1°	1419.2
2°	1413.6
3°	1408.1
4°	1400.6
5°	1387.6
6°	1361.5
7°	1318.8
8°	1246.2
9°	1147.6
10°	1026.7
11°	904.0
12°	801.7
13°	727.3
14°	669.6
15°	625.0
16°	584.1
17°	546.9
18°	513.4
19°	481.8
20°	455.7
21°	431.5
22°	409.2
23°	386.9
24°	366.4
25°	349.7
27.5°	314.3
30°	293.9
32.5°	280.9
35°	271.6
37.5°	264.1
40°	258.5
42.5°	253.0
45°	247.4
47.5°	239.9
50°	232.5
52.5°	223.2
55°	213.9
57.5°	202.7
60°	189.7
62.5°	176.7
65°	165.5
67.5°	152.5
70°	139.5
72.5°	128.3

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CANDELA DISTRIBUTION (continued):

	0°
75°	115.3
77.5°	106.0
80°	94.9
82.5°	85.6
85°	78.1
87.5°	70.7
90°	61.4
92.5°	55.8
95°	42.8
97.5°	27.9
100°	16.7
102.5°	9.3
105°	3.7
107.5°	1.9
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)