

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: P702180

Luminaire Tested: 340-4C-35-D010 / 340-EU4C-3040-9050-4LBW1LI-GFF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702180
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-35-D010 / 340-EU4C-3040-9050-4LBW1LI-GFF
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, FROSTED OUTSIDE KIT.
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

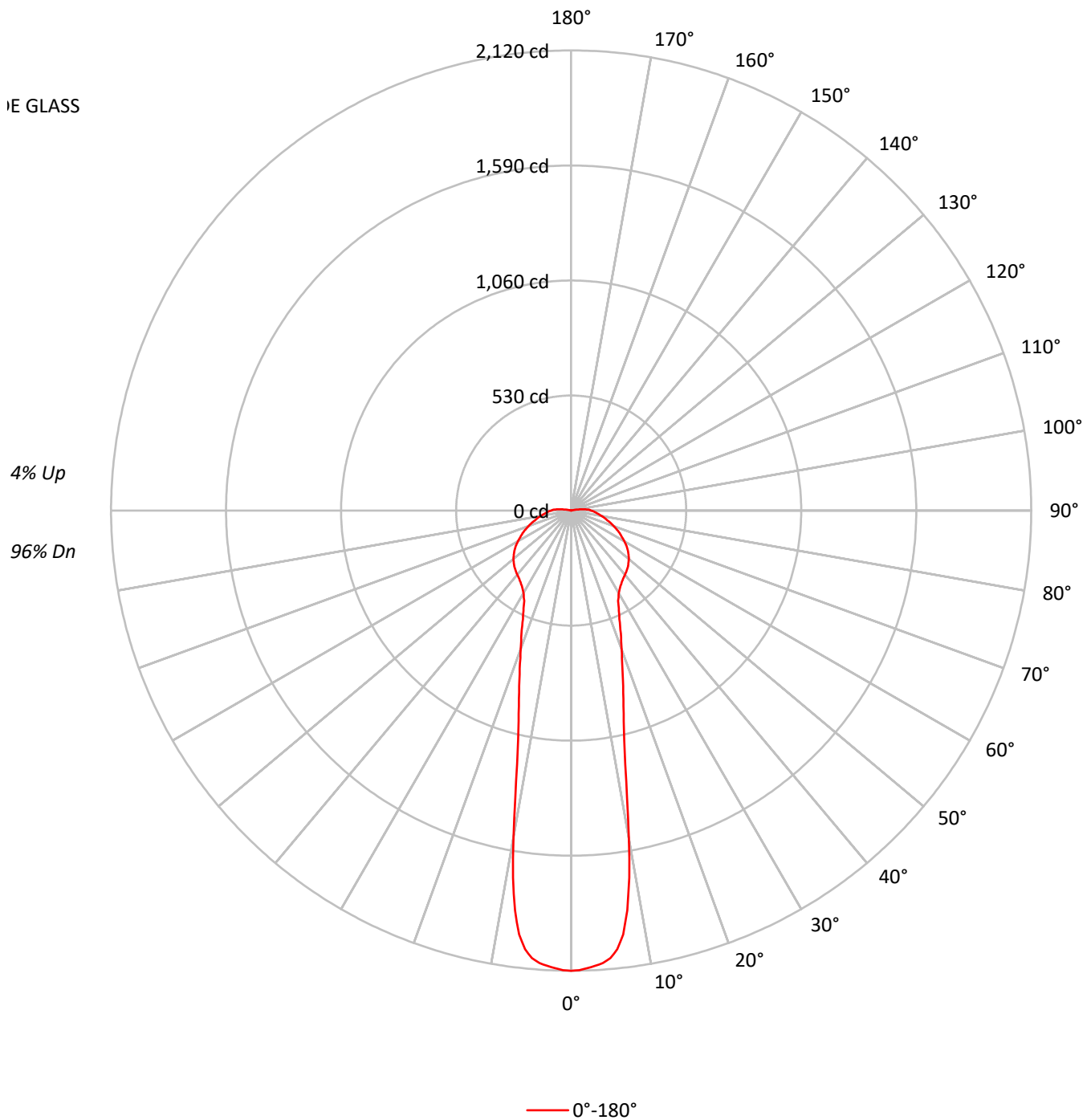
Lumens per Lamp: N/A
Luminaire Lumens: 2149.3 lumens
Efficiency: N/A
Efficacy: 53.2 lumens/watt
Spacing Criteria (0/90/45): 0.44 / 0.44 / 0.54
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 40.4
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°	245931
5°	209877
10°	138861
15°	76961
20°	51876
25°	37271
30°	29658
35°	26213
40°	24092
45°	22442
50°	20705
55°	18848
60°	16666
65°	14607
70°	12465
75°	10513
80°	8893
85°	7605

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 22442 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.2	8.5
10°-20°	267.1	12.4
20°-30°	244.3	11.4
30°-40°	255.4	11.9
40°-50°	284.4	13.2
50°-60°	284.2	13.2
60°-70°	243.7	11.3
70°-80°	184.0	8.6
80°-90°	127.1	5.9
90°-100°	67.5	3.1
100°-110°	9.3	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°	693.6	32.3
0°-40°	949.0	44.2
0°-60°	1517.7	70.6
0°-90°	2072.5	96.4
90°-120°	76.8	3.6
90°-150°	76.8	3.6
90°-180°	77.0	3.6
0°-180°	2149.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2120	
5°	2070	182
15°	932	267
25°	522	244
35°	405	255
45°	369	284
55°	319	284
65°	247	244
75°	172	184
85°	117	100
90°	92	51
95°	64	44
105°	6	9
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°	2120.4
1°	2117.6
2°	2109.3
3°	2100.9
4°	2089.8
5°	2070.4
6°	2031.6
7°	1967.7
8°	1859.5
9°	1712.4
10°	1532.0
11°	1348.8
12°	1196.2
13°	1085.2
14°	999.1
15°	932.5
16°	871.5
17°	816.0
18°	766.0
19°	718.8
20°	680.0
21°	643.9
22°	610.6
23°	577.3
24°	546.7
25°	521.8
27.5°	469.0
30°	438.5
32.5°	419.1
35°	405.2
37.5°	394.1
40°	385.8
42.5°	377.4
45°	369.1
47.5°	358.0
50°	346.9
52.5°	333.0
55°	319.2
57.5°	302.5
60°	283.1
62.5°	263.7
65°	247.0
67.5°	227.6
70°	208.2
72.5°	191.5

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CANDELA DISTRIBUTION (continued):

	0°
75°	172.1
77.5°	158.2
80°	141.5
82.5°	127.7
85°	116.6
87.5°	105.5
90°	91.6
92.5°	83.3
95°	63.8
97.5°	41.6
100°	25.0
102.5°	13.9
105°	5.6
107.5°	2.8
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)