

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: P702117

Luminaire Tested: 340-4C-30-D010 / 340-EU4C-3040-9040-4LBW1LI-GFF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702117
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-30-D010 / 340-EU4C-3040-9040-4LBW1LI-GFF
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, FROSTED OUTSIDE KIT.
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

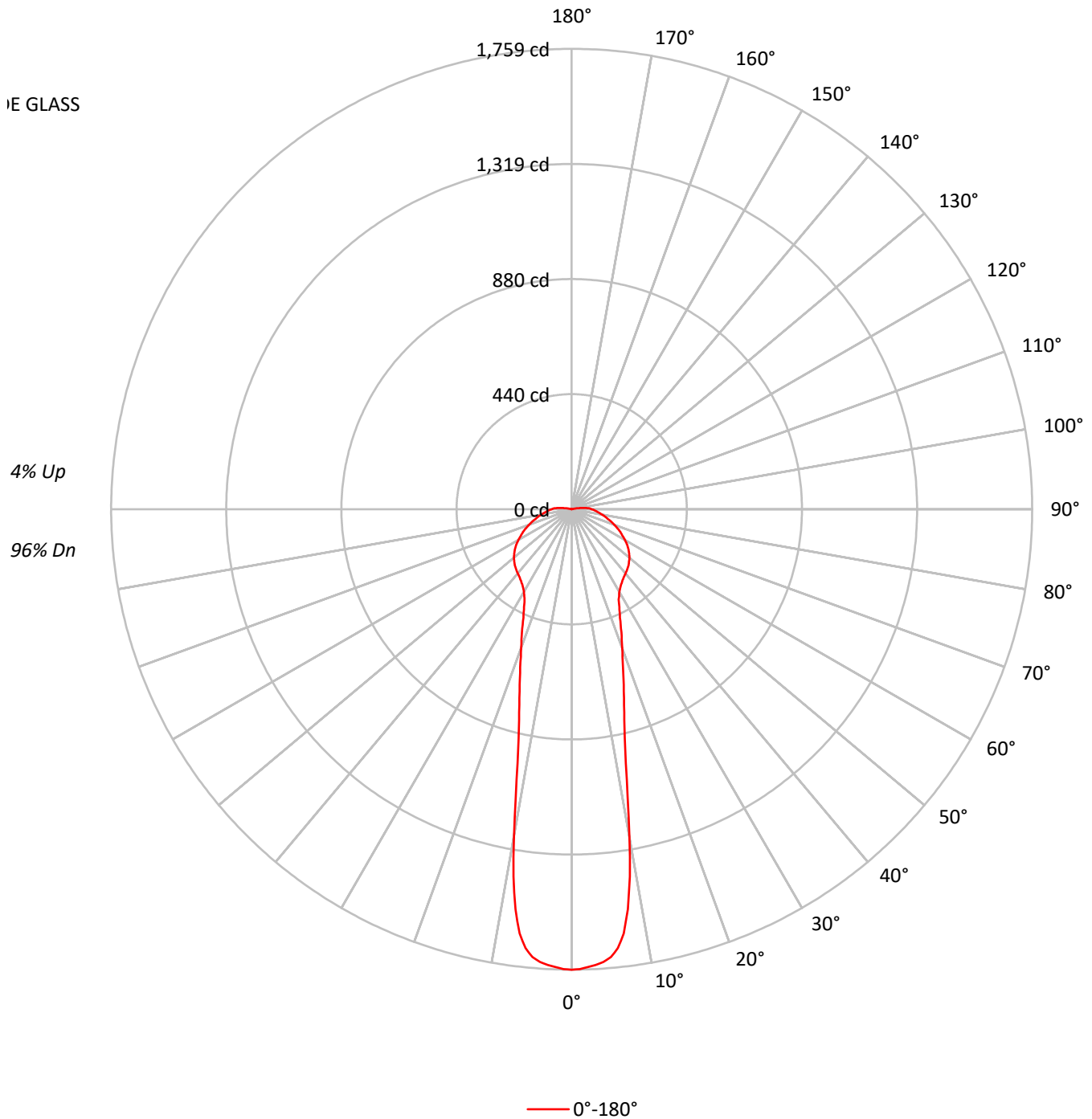
Lumens per Lamp: N/A
Luminaire Lumens: 1783.3 lumens
Efficiency: N/A
Efficacy: 56.4 lumens/watt
Spacing Criteria (0/90/45): 0.44 / 0.44 / 0.54
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 31.6
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

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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°	204061
5°	174144
10°	115222
15°	63863
20°	43042
25°	30921
30°	24612
35°	21749
40°	19990
45°	18624
50°	17183
55°	15636
60°	13828
65°	12123
70°	10339
75°	8723
80°	7378
85°	6307

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18624 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.2	8.5
10°-20°	221.6	12.4
20°-30°	202.7	11.4
30°-40°	211.9	11.9
40°-50°	236.0	13.2
50°-60°	235.8	13.2
60°-70°	202.2	11.3
70°-80°	152.7	8.6
80°-90°	105.5	5.9
90°-100°	56.0	3.1
100°-110°	7.7	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°	575.5	32.3
0°-40°	787.5	44.2
0°-60°	1259.3	70.6
0°-90°	1719.6	96.4
90°-120°	63.7	3.6
90°-150°	63.7	3.6
90°-180°	64.0	3.6
0°-180°	1783.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1759	
5°	1718	151
15°	774	222
25°	433	203
35°	336	212
45°	306	236
55°	265	236
65°	205	202
75°	143	153
85°	97	83
90°	76	42
95°	53	36
105°	5	8
115°	0	0
125°	0	0
135°	0	0
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1759.4
1°	1757.1
2°	1750.2
3°	1743.3
4°	1734.1
5°	1717.9
6°	1685.7
7°	1632.7
8°	1542.9
9°	1420.9
10°	1271.2
11°	1119.2
12°	992.5
13°	900.4
14°	829.0
15°	773.8
16°	723.1
17°	677.0
18°	635.6
19°	596.4
20°	564.2
21°	534.3
22°	506.6
23°	479.0
24°	453.7
25°	432.9
27.5°	389.2
30°	363.9
32.5°	347.7
35°	336.2
37.5°	327.0
40°	320.1
42.5°	313.2
45°	306.3
47.5°	297.1
50°	287.9
52.5°	276.3
55°	264.8
57.5°	251.0
60°	234.9
62.5°	218.8
65°	205.0
67.5°	188.8
70°	172.7
72.5°	158.9

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CANDELA DISTRIBUTION (continued):

	0°
75°	142.8
77.5°	131.3
80°	117.4
82.5°	105.9
85°	96.7
87.5°	87.5
90°	76.0
92.5°	69.1
95°	53.0
97.5°	34.5
100°	20.7
102.5°	11.5
105°	4.6
107.5°	2.3
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)