

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: P702236

Luminaire Tested: 340-4C-40-D010 / 340-EU4C-3040-9050-4LBW1LI-GFF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702236
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-40-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

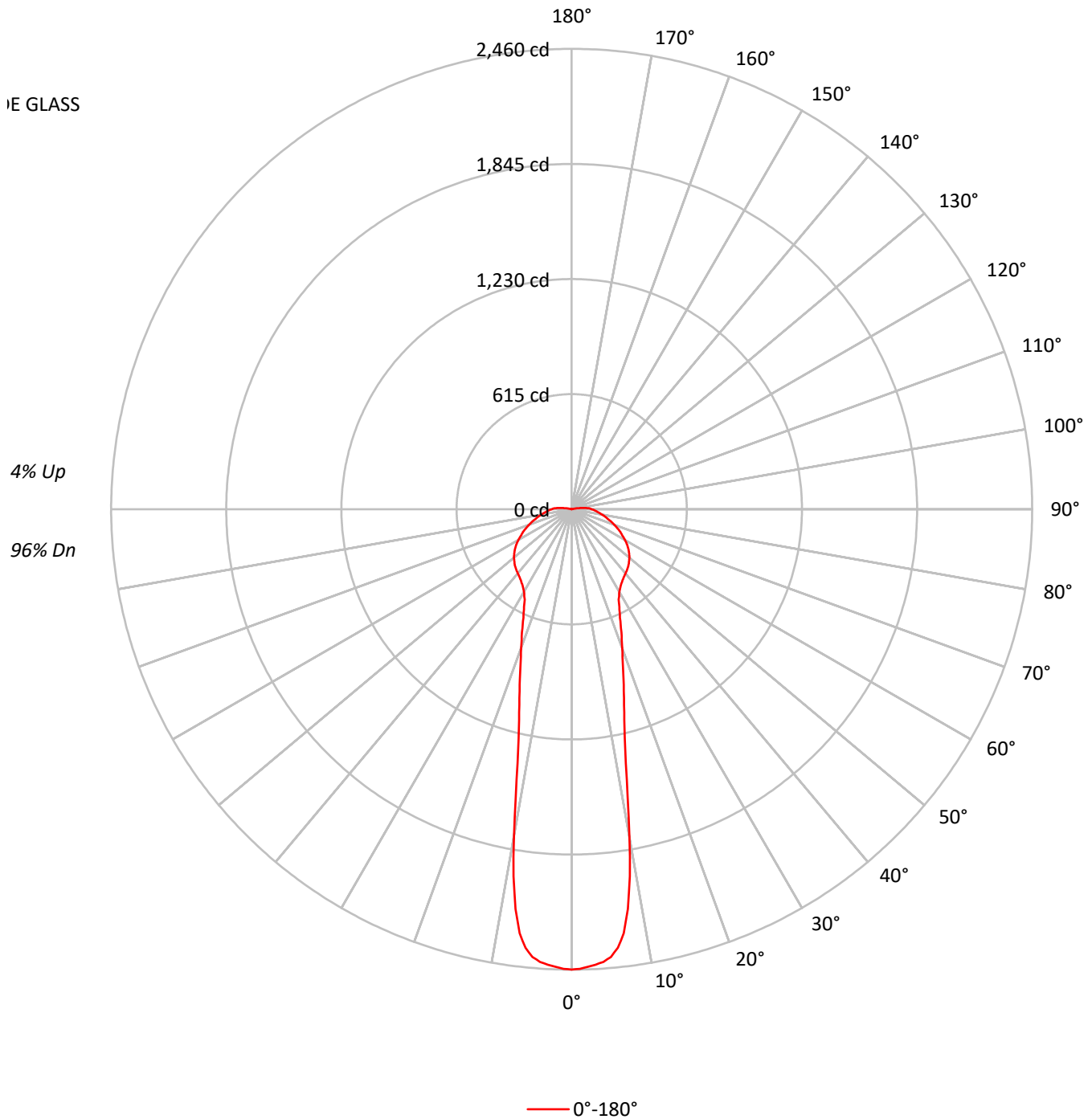
Lumens per Lamp: N/A
Luminaire Lumens: 2493.0 lumens
Efficiency: N/A
Efficacy: 53.0 lumens/watt
Spacing Criteria (0/90/45): 0.44 / 0.44 / 0.54
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 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

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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°	285272
5°	243461
10°	161076
15°	89275
20°	60169
25°	43229
30°	34406
35°	30405
40°	27946
45°	26036
50°	24017
55°	21860
60°	19332
65°	16943
70°	14458
75°	12193
80°	10319
85°	8818

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 26036 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.3	8.5
10°-20°	309.8	12.4
20°-30°	283.4	11.4
30°-40°	296.3	11.9
40°-50°	329.9	13.2
50°-60°	329.7	13.2
60°-70°	282.7	11.3
70°-80°	213.4	8.6
80°-90°	147.4	5.9
90°-100°	78.3	3.1
100°-110°	10.7	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°	804.6	32.3
0°-40°	1100.9	44.2
0°-60°	1760.5	70.6
0°-90°	2404.0	96.4
90°-120°	89.0	3.6
90°-150°	89.0	3.6
90°-180°	89.0	3.6
0°-180°	2493.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2460	
5°	2402	211
15°	1082	310
25°	605	283
35°	470	296
45°	428	330
55°	370	330
65°	286	283
75°	200	213
85°	135	116
90°	106	59
95°	74	50
105°	6	11
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°	2459.6
1°	2456.4
2°	2446.7
3°	2437.1
4°	2424.2
5°	2401.7
6°	2356.6
7°	2282.5
8°	2157.0
9°	1986.4
10°	1777.1
11°	1564.6
12°	1387.6
13°	1258.8
14°	1159.0
15°	1081.7
16°	1010.9
17°	946.5
18°	888.6
19°	833.8
20°	788.7
21°	746.9
22°	708.3
23°	669.6
24°	634.2
25°	605.2
27.5°	544.1
30°	508.7
32.5°	486.1
35°	470.0
37.5°	457.2
40°	447.5
42.5°	437.8
45°	428.2
47.5°	415.3
50°	402.4
52.5°	386.3
55°	370.2
57.5°	350.9
60°	328.4
62.5°	305.8
65°	286.5
67.5°	264.0
70°	241.5
72.5°	222.1

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CANDELA DISTRIBUTION (continued):

	0°
75°	199.6
77.5°	183.5
80°	164.2
82.5°	148.1
85°	135.2
87.5°	122.3
90°	106.2
92.5°	96.6
95°	74.0
97.5°	48.3
100°	29.0
102.5°	16.1
105°	6.4
107.5°	3.2
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)