

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: P702515

Luminaire Tested: 340-6C-20-D010 / 340-EU4C-1020-9050-4LBW1LI-GFC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702515
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-15)
Test Lab: INNOVATION CENTER
Issue Date: 8/30/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 340-6C-20-D010 / 340-EU4C-1020-9050-4LBW1LI-GFC
Description: FARALLON 6" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, CLEAR OUTSIDE C
KIT.
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

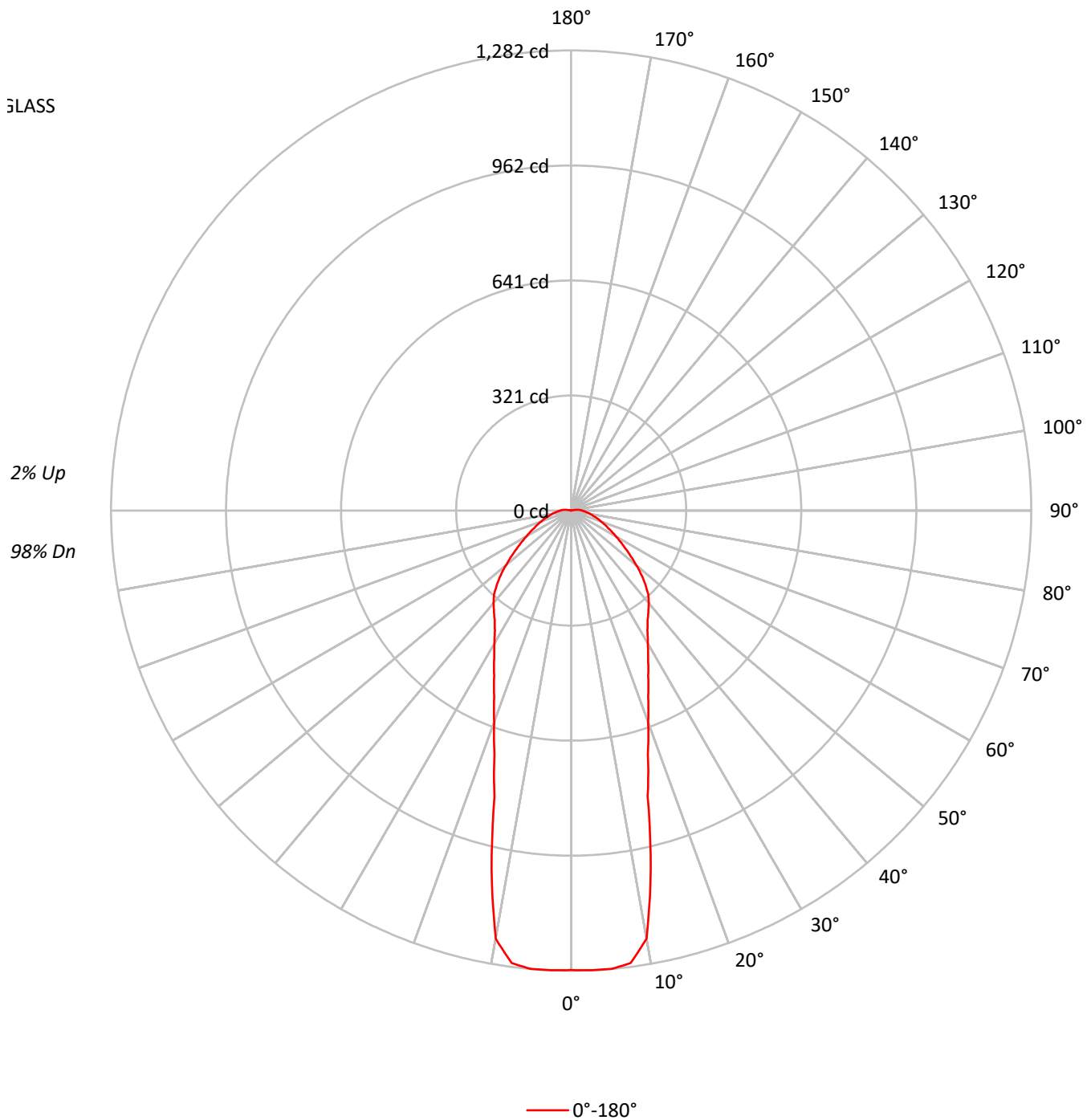
Lumens per Lamp: N/A
Luminaire Lumens: 1479.1 lumens
Efficiency: N/A
Efficacy: 67.8 lumens/watt
Spacing Criteria (0/90/45): 0.61 / 0.61 / 0.74
Luminous Opening: Vertical Cylinder (Dia: 0.46' x H: 0.49')
CIE Type: Direct

Input Watts (W): 21.8
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: P702515

CATALOG NUMBER: 340-6C-20-D010 / 340-EU4C-1020-9050-4LBW1LI-GFC

Luminous Intensity Polar Plot



TEST NUMBER: P702515

CATALOG NUMBER: 340-6C-20-D010 / 340-EU4C-1020-9050-4LBW1LI-GFC

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	110	110	110		105	105	105		100	100	100	98
1	109	105	101	97	106	102	99	96	98	95	92		94	91	89		90	88	86	84
2	101	93	87	82	98	91	86	81	88	83	79		84	80	77		81	78	75	73
3	93	84	76	71	91	82	75	70	79	73	69		76	71	67		73	69	66	64
4	86	76	68	62	84	74	67	61	72	65	60		69	64	60		67	62	59	57
5	81	69	61	55	78	68	60	55	66	59	54		64	58	53		62	57	53	51
6	75	63	55	50	73	62	55	49	60	54	49		59	53	48		57	52	48	46
7	71	58	51	45	69	58	50	45	56	49	44		54	49	44		53	48	44	42
8	66	54	47	41	65	54	46	41	52	46	41		51	45	41		50	44	40	38
9	63	51	43	38	61	50	43	38	49	42	38		48	42	37		47	41	37	36
10	59	47	40	35	58	47	40	35	46	39	35		45	39	35		44	38	35	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	83508
5°	75013
10°	64707
15°	40800
20°	29136
25°	22377
30°	18027
35°	15163
40°	13380
45°	11443
50°	9186
55°	7152
60°	5623
65°	4442
70°	3588
75°	2863
80°	2320
85°	1828

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11443 cd/sqm

TEST NUMBER: P702515

CATALOG NUMBER: 340-6C-20-D010 / 340-EU4C-1020-9050-4LBW1LI-GFC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.5	8.1
10°-20°	237.9	16.1
20°-30°	235.7	15.9
30°-40°	234.8	15.9
40°-50°	224.1	15.2
50°-60°	167.3	11.3
60°-70°	113.4	7.7
70°-80°	74.0	5.0
80°-90°	44.9	3.0
90°-100°	23.4	1.6
100°-110°	3.1	0.2
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°	594.1	40.2
0°-40°	828.9	56.0
0°-60°	1220.3	82.5
0°-90°	1452.5	98.2
90°-120°	26.6	1.8
90°-150°	26.6	1.8
90°-180°	27.0	1.8
0°-180°	1479.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1280	
5°	1282	121
15°	824	238
25°	508	236
35°	372	235
45°	293	224
55°	185	167
65°	113	113
75°	69	74
85°	40	36
90°	30	17
95°	22	16
105°	2	3
115°	0	0
125°	0	0
135°	0	0
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	

TEST NUMBER: P702515

CATALOG NUMBER: 340-6C-20-D010 / 340-EU4C-1020-9050-4LBW1LI-GFC

CANDELA DISTRIBUTION (FULL):

0°	
0°	1280.0
2.5°	1281.7
5°	1281.7
7.5°	1271.6
10°	1211.0
12.5°	1024.3
15°	824.2
17.5°	711.5
20°	627.4
22.5°	560.1
25°	508.0
27.5°	464.2
30°	427.2
32.5°	395.3
35°	371.7
37.5°	353.2
40°	336.4
42.5°	317.9
45°	292.7
47.5°	265.8
50°	237.2
52.5°	210.2
55°	185.0
57.5°	163.2
60°	144.6
62.5°	127.8
65°	112.7
67.5°	100.9
70°	89.1
72.5°	79.1
75°	69.0
77.5°	60.6
80°	53.8
82.5°	47.1
85°	40.4
87.5°	35.3
90°	30.3
92.5°	26.9
95°	21.9
97.5°	16.8
100°	10.1
102.5°	5.0
105°	1.7
107.5°	0.0
110°	0.0

TEST NUMBER: P702515

CATALOG NUMBER: 340-6C-20-D010 / 340-EU4C-1020-9050-4LBW1LI-GFC

CANDELA DISTRIBUTION (continued):

	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)