

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: P702509

Luminaire Tested: 340-6C-20-D010 / 340-EU4C-1020-9040-4LBW1LI-GFF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702509
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-14)
Test Lab: INNOVATION CENTER
Issue Date: 8/30/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 340-6C-20-D010 / 340-EU4C-1020-9040-4LBW1LI-GFF
Description: FARALLON 6" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, FROSTED OUTSIDE KIT.
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

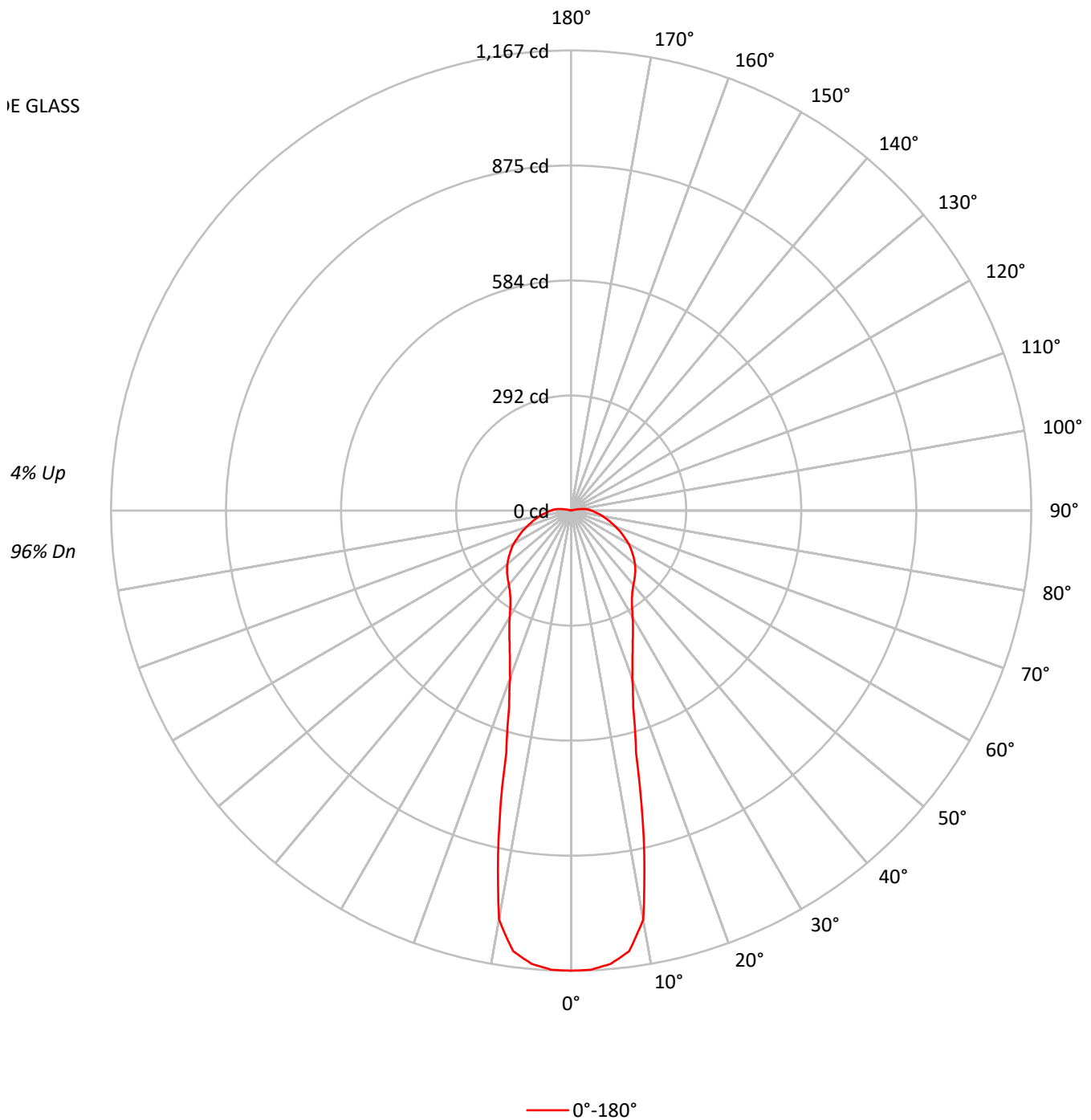
Lumens per Lamp: N/A
Luminaire Lumens: 1350.7 lumens
Efficiency: N/A
Efficacy: 62.0 lumens/watt
Spacing Criteria (0/90/45): 0.53 / 0.53 / 0.63
Luminous Opening: Vertical Cylinder (Dia: 0.46' x H: 0.49')
CIE Type: Direct

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

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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	102	97	93	104	99	95	91	94	91	88		90	87	84		85	83	81	79
2	98	89	82	77	95	87	81	75	83	78	73		79	75	71		76	72	69	66
3	90	79	71	65	87	77	70	64	74	68	62		71	65	61		68	63	59	57
4	83	71	63	56	80	70	62	56	67	60	54		64	58	53		61	56	52	50
5	77	65	56	49	75	63	55	49	61	54	48		58	52	47		56	51	47	44
6	72	59	50	44	70	58	50	44	56	49	43		54	47	43		52	46	42	40
7	67	54	46	40	65	53	45	40	51	44	39		50	43	39		48	43	38	36
8	63	50	42	37	61	49	42	36	48	41	36		46	40	36		45	39	35	33
9	60	47	39	34	58	46	39	34	45	38	33		43	37	33		42	37	33	31
10	56	44	36	31	55	43	36	31	42	35	31		41	35	31		40	34	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	76129
5°	67521
10°	56276
15°	31493
20°	21046
25°	16263
30°	13145
35°	10957
40°	9769
45°	8956
50°	8171
55°	7326
60°	6536
65°	5652
70°	4845
75°	4103
80°	3484
85°	2909

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8956 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.3	7.9
10°-20°	186.8	13.8
20°-30°	171.3	12.7
30°-40°	170.3	12.6
40°-50°	176.9	13.1
50°-60°	170.0	12.6
60°-70°	142.2	10.5
70°-80°	104.9	7.8
80°-90°	71.0	5.3
90°-100°	41.2	3.0
100°-110°	8.6	0.6
110°-120°	0.2	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°	465.3	34.5
0°-40°	635.6	47.1
0°-60°	982.6	72.7
0°-90°	1300.7	96.3
90°-120°	50.0	3.7
90°-150°	50.0	3.7
90°-180°	50.0	3.7
0°-180°	1350.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1167	
5°	1154	107
15°	636	187
25°	369	171
35°	269	170
45°	229	177
55°	190	170
65°	143	142
75°	99	105
85°	64	56
90°	51	28
95°	40	28
105°	7	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°	1166.9
2.5°	1165.2
5°	1153.7
7.5°	1127.3
10°	1053.2
12.5°	850.4
15°	636.2
17.5°	522.5
20°	453.2
22.5°	405.4
25°	369.2
27.5°	339.5
30°	311.5
32.5°	286.8
35°	268.6
37.5°	255.5
40°	245.6
42.5°	237.3
45°	229.1
47.5°	220.9
50°	211.0
52.5°	201.1
55°	189.5
57.5°	179.6
60°	168.1
62.5°	154.9
65°	143.4
67.5°	131.9
70°	120.3
72.5°	108.8
75°	98.9
77.5°	89.0
80°	80.8
82.5°	72.5
85°	64.3
87.5°	57.7
90°	51.1
92.5°	46.1
95°	39.6
97.5°	29.7
100°	19.8
102.5°	11.5
105°	6.6
107.5°	3.3
110°	1.6

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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)