

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: P702504

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

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702504
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-12)
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-CF
Description: FARALLON 6" LED GLASS DOWNLIGHT. CYLINDRICAL FROSTED GLASS KIT.
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

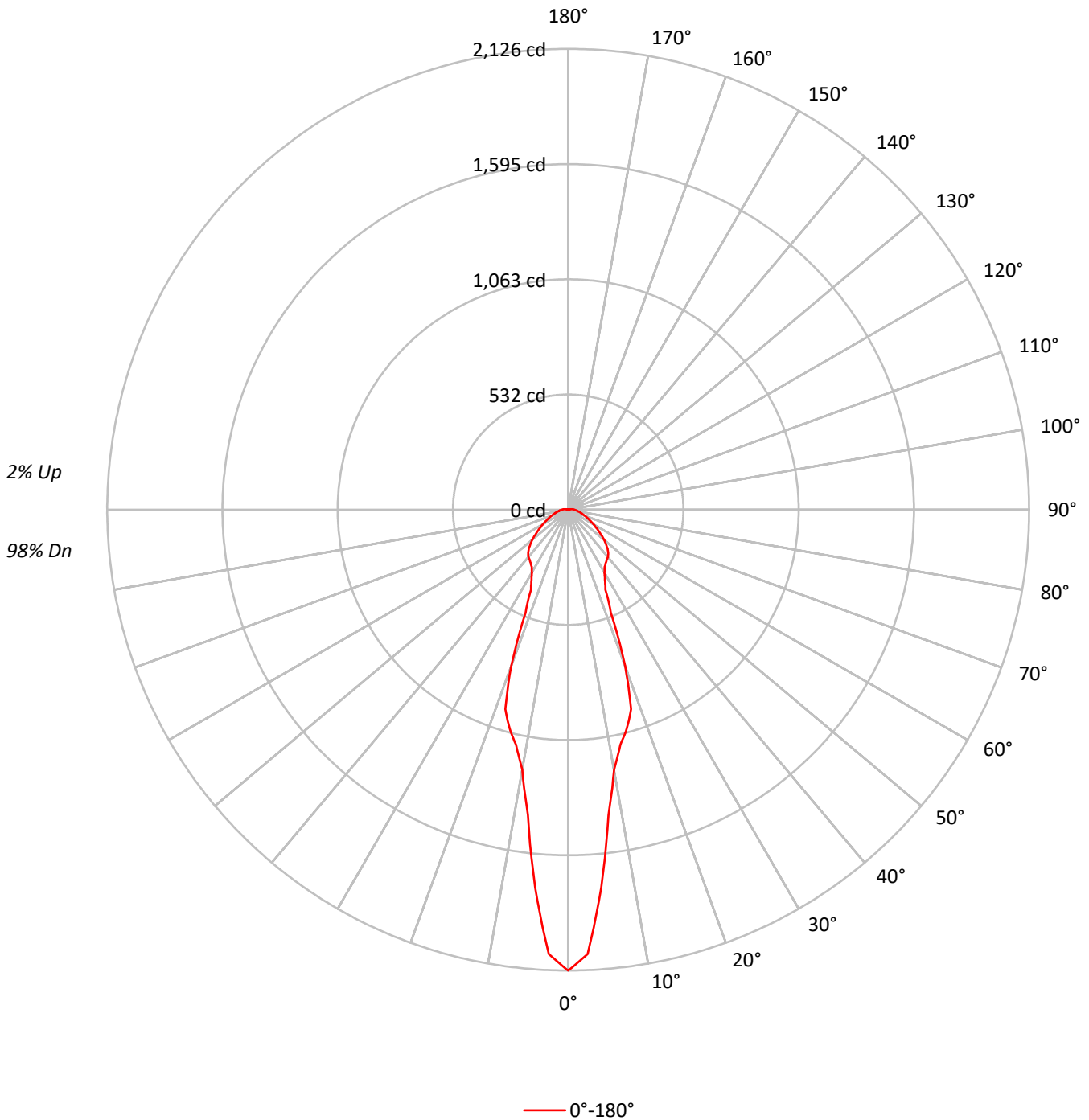
Lumens per Lamp: N/A
Luminaire Lumens: 1428.9 lumens
Efficiency: N/A
Efficacy: 65.5 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.55
Luminous Opening: Vertical Cylinder (Dia: 0.46' x H: 0.49')
CIE Type: Direct

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	119	119	119	119	116	116	116	116	110	110	110		105	105	105		100	100	100	98
1	109	105	101	98	107	103	99	96	98	95	93		94	92	90		90	88	87	84
2	101	94	88	83	99	92	87	82	88	84	80		85	81	78		82	79	76	74
3	94	85	78	72	92	83	77	72	80	75	70		77	73	69		75	71	67	65
4	88	77	70	64	85	76	69	64	73	67	63		71	66	62		69	64	61	59
5	82	71	63	58	80	70	63	57	68	61	56		66	60	56		64	59	55	53
6	77	66	58	52	75	65	57	52	63	56	52		61	55	51		59	54	50	49
7	73	61	53	48	71	60	53	48	58	52	47		57	51	47		55	50	47	45
8	69	57	50	44	67	56	49	44	55	48	44		53	48	44		52	47	43	42
9	65	53	46	41	64	53	46	41	52	45	41		50	45	41		49	44	40	39
10	62	50	43	39	61	50	43	39	49	43	38		48	42	38		47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	138708
5°	102344
10°	65081
15°	51725
20°	35665
25°	17932
30°	14120
35°	12304
40°	11340
45°	10051
50°	8361
55°	6626
60°	5253
65°	4158
70°	3254
75°	2597
80°	2130
85°	1715

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10051 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.9	10.4
10°-20°	285.9	20.0
20°-30°	207.6	14.5
30°-40°	190.4	13.3
40°-50°	196.4	13.7
50°-60°	154.4	10.8
60°-70°	105.0	7.3
70°-80°	67.2	4.7
80°-90°	41.6	2.9
90°-100°	24.1	1.7
100°-110°	7.2	0.5
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°	642.4	45.0
0°-40°	832.8	58.3
0°-60°	1183.6	82.8
0°-90°	1397.4	97.8
90°-120°	31.5	2.2
90°-150°	31.5	2.2
90°-180°	32.0	2.2
0°-180°	1428.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2126	
5°	1749	149
15°	1045	286
25°	407	208
35°	302	190
45°	257	196
55°	171	154
65°	106	105
75°	63	67
85°	38	33
90°	28	16
95°	23	17
105°	7	7
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°	2126.1
2.5°	2051.9
5°	1748.7
7.5°	1420.7
10°	1218.0
12.5°	1110.8
15°	1044.9
17.5°	964.2
20°	768.0
22.5°	514.2
25°	407.1
27.5°	365.9
30°	334.6
32.5°	313.1
35°	301.6
37.5°	291.7
40°	285.1
42.5°	273.6
45°	257.1
47.5°	237.3
50°	215.9
52.5°	192.8
55°	171.4
57.5°	151.6
60°	135.1
62.5°	118.7
65°	105.5
67.5°	92.3
70°	80.8
72.5°	70.9
75°	62.6
77.5°	56.0
80°	49.4
82.5°	42.9
85°	37.9
87.5°	33.0
90°	28.0
92.5°	26.4
95°	23.1
97.5°	18.1
100°	13.2
102.5°	9.9
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)