

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: P702511

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

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702511
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-1020-9050-4LBW1LI-CF
Description: FARALLON 6" LED GLASS DOWNLIGHT. CYLINDRICAL FROSTED GLASS KIT.
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

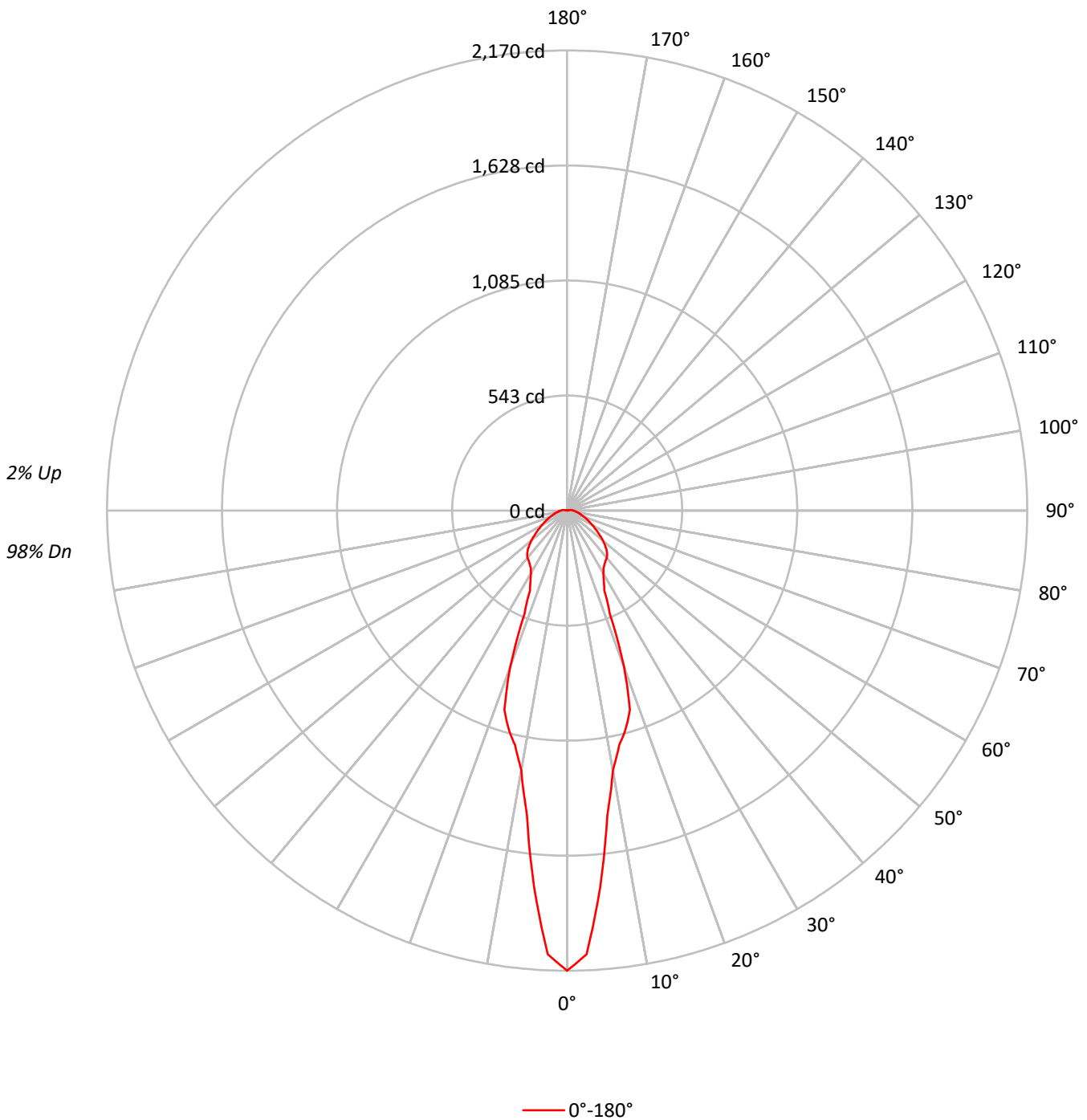
Lumens per Lamp: N/A
Luminaire Lumens: 1458.2 lumens
Efficiency: N/A
Efficacy: 66.9 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.55
Luminous Opening: Vertical Cylinder (Dia: 0.46' x H: 0.49')
CIE Type: Direct

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°	141553
5°	104445
10°	66417
15°	52789
20°	36399
25°	18298
30°	14406
35°	12557
40°	11574
45°	10258
50°	8531
55°	6761
60°	5362
65°	4241
70°	3318
75°	2651
80°	2178
85°	1751

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10258 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.9	10.4
10°-20°	291.8	20.0
20°-30°	211.9	14.5
30°-40°	194.4	13.3
40°-50°	200.5	13.7
50°-60°	157.5	10.8
60°-70°	107.1	7.3
70°-80°	68.6	4.7
80°-90°	42.4	2.9
90°-100°	24.6	1.7
100°-110°	7.4	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°	655.6	45.0
0°-40°	849.9	58.3
0°-60°	1207.9	82.8
0°-90°	1426.0	97.8
90°-120°	32.2	2.2
90°-150°	32.2	2.2
90°-180°	32.0	2.2
0°-180°	1458.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2170	
5°	1785	152
15°	1066	292
25°	415	212
35°	308	194
45°	262	200
55°	175	158
65°	108	107
75°	64	69
85°	39	34
90°	29	16
95°	24	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°	2169.7
2.5°	2094.1
5°	1784.6
7.5°	1449.9
10°	1243.0
12.5°	1133.7
15°	1066.4
17.5°	984.0
20°	783.8
22.5°	524.8
25°	415.4
27.5°	373.4
30°	341.4
32.5°	319.6
35°	307.8
37.5°	297.7
40°	291.0
42.5°	279.2
45°	262.4
47.5°	242.2
50°	220.3
52.5°	196.8
55°	174.9
57.5°	154.7
60°	137.9
62.5°	121.1
65°	107.6
67.5°	94.2
70°	82.4
72.5°	72.3
75°	63.9
77.5°	57.2
80°	50.5
82.5°	43.7
85°	38.7
87.5°	33.6
90°	28.6
92.5°	26.9
95°	23.5
97.5°	18.5
100°	13.5
102.5°	10.1
105°	6.7
107.5°	3.4
110°	1.7

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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)