

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: P702470

Luminaire Tested: 340-6C-15-D010 / 340-EU4C-1020-9730-4LBW1LI-CQ

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702470
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-13)
Test Lab: INNOVATION CENTER
Issue Date: 8/30/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 340-6C-15-D010 / 340-EU4C-1020-9730-4LBW1LI-CQ
Description: FARALLON 6" LED GLASS DOWNLIGHT CYLINDRICAL FROSTED, QUADRATE ETCHED GLASS KIT.
Light Source: 3000K CCT, 97 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

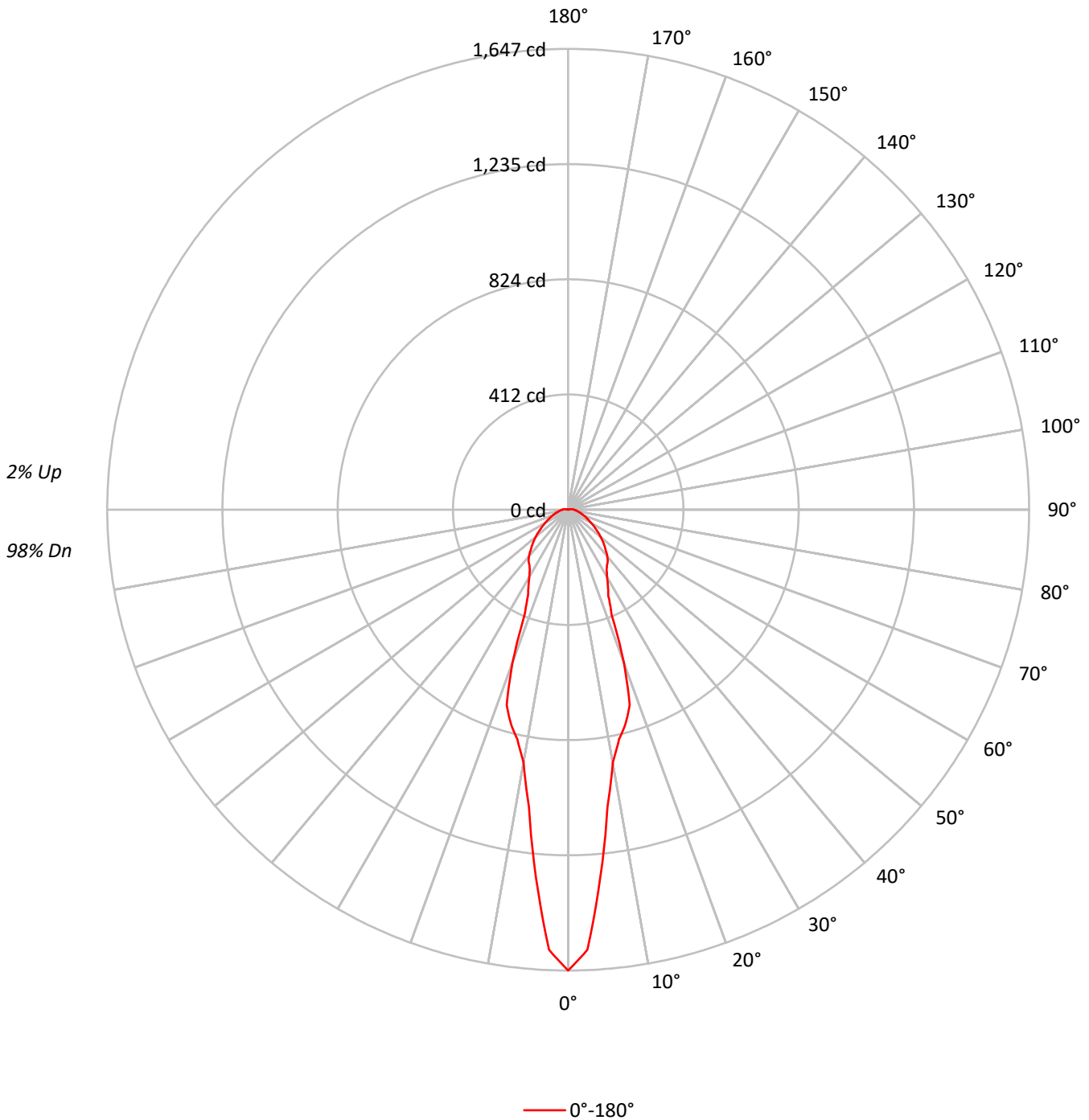
Lumens per Lamp: N/A
Luminaire Lumens: 1076.9 lumens
Efficiency: N/A
Efficacy: 68.2 lumens/watt
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.54
Luminous Opening: Vertical Cylinder (Dia: 0.46' x H: 0.49')
CIE Type: Direct

Input Watts (W): 15.8
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	110	105	102	98	107	103	100	97	98	96	93		94	92	90		90	89	87	85
2	102	95	89	84	99	93	87	83	89	84	81		85	82	78		82	79	76	74
3	95	86	79	73	92	84	78	72	81	75	71		78	73	70		75	71	68	66
4	88	78	71	65	86	77	70	64	74	68	63		72	67	62		69	65	61	59
5	83	72	64	58	81	71	63	58	68	62	57		66	61	57		64	60	56	54
6	78	66	59	53	76	65	58	53	63	57	52		62	56	52		60	55	51	49
7	73	62	54	49	71	61	54	49	59	53	48		58	52	48		56	51	47	46
8	69	58	50	45	68	57	50	45	55	49	45		54	48	44		53	48	44	42
9	66	54	47	42	64	53	47	42	52	46	42		51	45	41		50	45	41	40
10	62	51	44	40	61	50	44	39	49	43	39		48	43	39		47	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	107451
5°	77190
10°	48977
15°	39211
20°	26977
25°	14955
30°	11727
35°	9848
40°	8651
45°	7178
50°	5890
55°	4666
60°	3717
65°	2925
70°	2328
75°	1879
80°	1518
85°	1253

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7178 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.7	10.5
10°-20°	216.3	20.1
20°-30°	167.9	15.6
30°-40°	152.8	14.2
40°-50°	141.7	13.2
50°-60°	109.1	10.1
60°-70°	74.6	6.9
70°-80°	48.4	4.5
80°-90°	30.2	2.8
90°-100°	17.5	1.6
100°-110°	5.5	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°	497.0	46.1
0°-40°	649.7	60.3
0°-60°	900.5	83.6
0°-90°	1053.7	97.8
90°-120°	23.2	2.2
90°-150°	23.2	2.2
90°-180°	23.0	2.1
0°-180°	1076.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1647	
5°	1319	113
15°	792	216
25°	340	168
35°	241	153
45°	184	142
55°	121	109
65°	74	75
75°	45	48
85°	28	24
90°	20	11
95°	16	12
105°	5	6
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°	1647.0
2.5°	1574.1
5°	1318.9
7.5°	1072.5
10°	916.6
12.5°	839.9
15°	792.1
17.5°	730.5
20°	580.9
22.5°	406.1
25°	339.5
27.5°	306.8
30°	277.9
32.5°	255.2
35°	241.4
37.5°	232.6
40°	217.5
42.5°	199.9
45°	183.6
47.5°	167.2
50°	152.1
52.5°	135.8
55°	120.7
57.5°	108.1
60°	95.6
62.5°	84.2
65°	74.2
67.5°	66.6
70°	57.8
72.5°	51.5
75°	45.3
77.5°	40.2
80°	35.2
82.5°	31.4
85°	27.7
87.5°	23.9
90°	20.1
92.5°	18.9
95°	16.3
97.5°	13.8
100°	10.1
102.5°	7.5
105°	5.0
107.5°	2.5
110°	1.3

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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)