

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: P702617

Luminaire Tested: 340-6C-30-D010 / 340-EU4C-3040-9040-4LBW1LI-CQ

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702617
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-30-D010 / 340-EU4C-3040-9040-4LBW1LI-CQ
Description: FARALLON 6" LED GLASS DOWNLIGHT CYLINDRICAL FROSTED, QUADRATE ETCHED GLASS KIT.
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

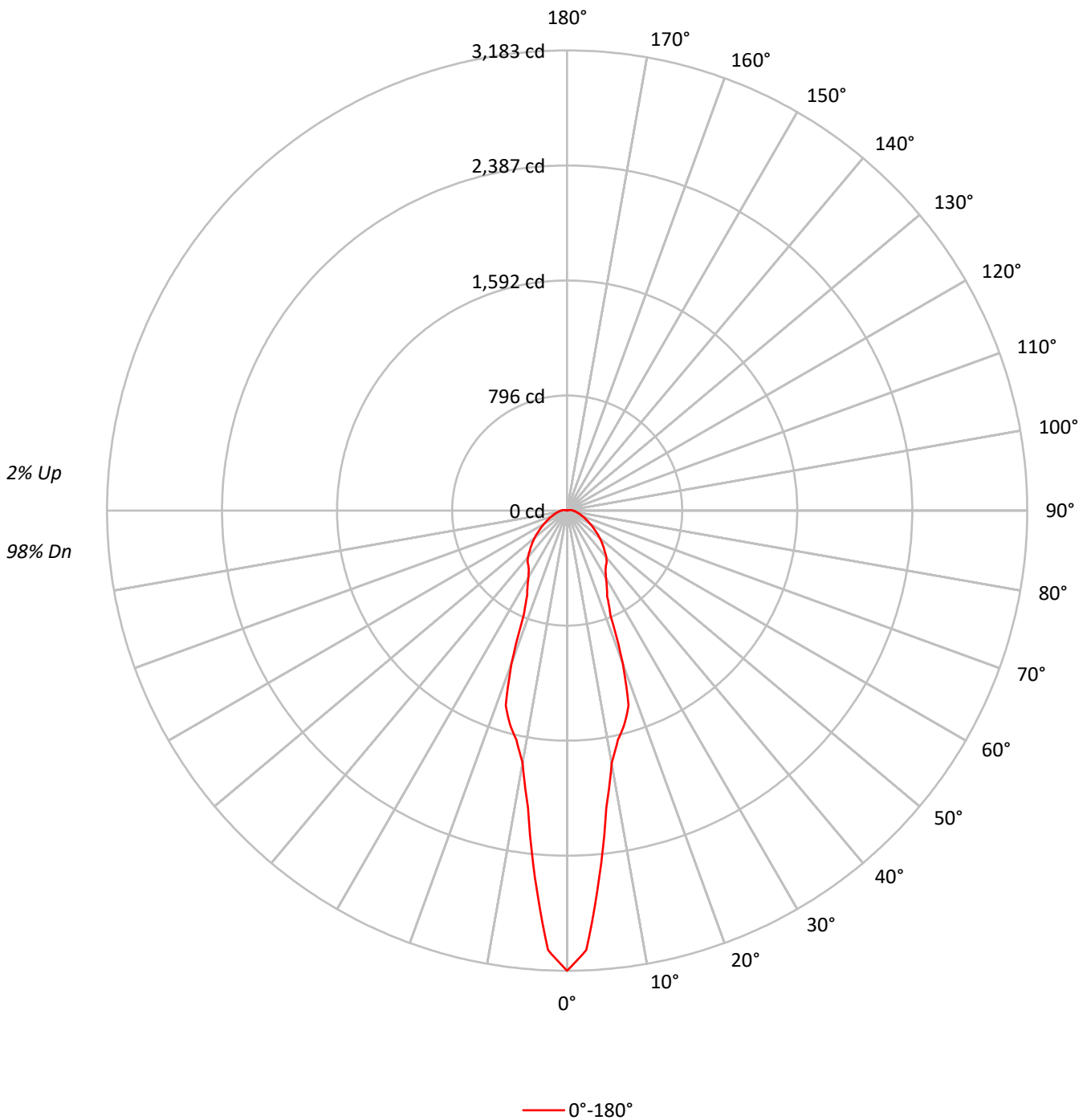
Lumens per Lamp: N/A
Luminaire Lumens: 2081.4 lumens
Efficiency: N/A
Efficacy: 65.9 lumens/watt
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.54
Luminous Opening: Vertical Cylinder (Dia: 0.46' x H: 0.49')
CIE Type: Direct

Input Watts (W): 31.6
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°	207667
5°	149177
10°	94651
15°	75778
20°	52133
25°	28901
30°	22660
35°	19031
40°	16721
45°	13871
50°	11386
55°	9019
60°	7182
65°	5652
70°	4502
75°	3630
80°	2932
85°	2420

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13871 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.9	10.5
10°-20°	418.0	20.1
20°-30°	324.5	15.6
30°-40°	295.2	14.2
40°-50°	273.9	13.2
50°-60°	210.8	10.1
60°-70°	144.3	6.9
70°-80°	93.7	4.5
80°-90°	58.3	2.8
90°-100°	33.8	1.6
100°-110°	10.7	0.5
110°-120°	0.3	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°	960.4	46.1
0°-40°	1255.6	60.3
0°-60°	1740.3	83.6
0°-90°	2036.6	97.8
90°-120°	44.8	2.2
90°-150°	44.8	2.2
90°-180°	45.0	2.2
0°-180°	2081.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3183	
5°	2549	218
15°	1531	418
25°	656	325
35°	466	295
45°	355	274
55°	233	211
65°	143	144
75°	88	94
85°	54	47
90°	39	22
95°	32	23
105°	10	11
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°	3183.1
2.5°	3042.2
5°	2548.9
7.5°	2072.7
10°	1771.4
12.5°	1623.1
15°	1530.8
17.5°	1411.8
20°	1122.6
22.5°	784.8
25°	656.1
27.5°	592.9
30°	537.0
32.5°	493.3
35°	466.5
37.5°	449.5
40°	420.4
42.5°	386.3
45°	354.8
47.5°	323.2
50°	294.0
52.5°	262.4
55°	233.3
57.5°	209.0
60°	184.7
62.5°	162.8
65°	143.4
67.5°	128.8
70°	111.8
72.5°	99.6
75°	87.5
77.5°	77.8
80°	68.0
82.5°	60.7
85°	53.5
87.5°	46.2
90°	38.9
92.5°	36.4
95°	31.6
97.5°	26.7
100°	19.4
102.5°	14.6
105°	9.7
107.5°	4.9
110°	2.4

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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)