

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: P702519

Luminaire Tested: 340-6C-20-D010 / 340-EU4C-1020-9727-4LBW1LI-CQ

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702519
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-20-D010 / 340-EU4C-1020-9727-4LBW1LI-CQ
Description: FARALLON 6" LED GLASS DOWNLIGHT CYLINDRICAL FROSTED, QUADRATE ETCHED GLASS KIT.
Light Source: 2700K CCT, 97 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

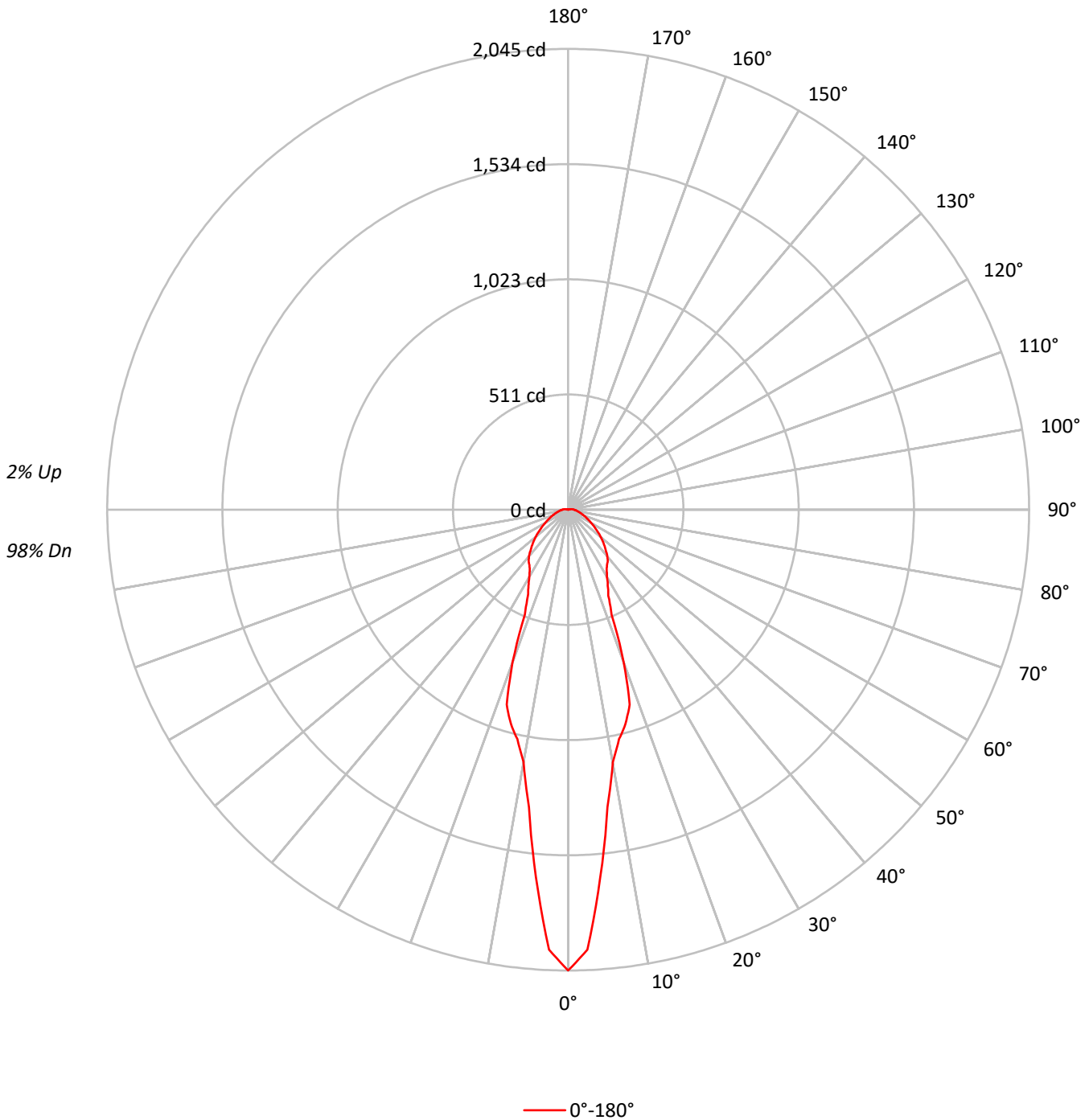
Lumens per Lamp: N/A
Luminaire Lumens: 1336.9 lumens
Efficiency: N/A
Efficacy: 61.3 lumens/watt
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.54
Luminous Opening: Vertical Cylinder (Dia: 0.46' x H: 0.49')
CIE Type: Direct

Input Watts (W): 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	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°	133391
5°	95819
10°	60796
15°	48676
20°	33487
25°	18562
30°	14554
35°	12226
40°	10739
45°	8910
50°	7315
55°	5791
60°	4612
65°	3630
70°	2891
75°	2332
80°	1884
85°	1552

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8910 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.9	10.5
10°-20°	268.5	20.1
20°-30°	208.4	15.6
30°-40°	189.6	14.2
40°-50°	175.9	13.2
50°-60°	135.4	10.1
60°-70°	92.7	6.9
70°-80°	60.2	4.5
80°-90°	37.4	2.8
90°-100°	21.7	1.6
100°-110°	6.9	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°	616.9	46.1
0°-40°	806.5	60.3
0°-60°	1117.8	83.6
0°-90°	1308.1	97.8
90°-120°	28.8	2.2
90°-150°	28.8	2.2
90°-180°	29.0	2.2
0°-180°	1336.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2045	
5°	1637	140
15°	983	269
25°	421	208
35°	300	190
45°	228	176
55°	150	135
65°	92	93
75°	56	60
85°	34	30
90°	25	14
95°	20	15
105°	6	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°	2044.6
2.5°	1954.1
5°	1637.2
7.5°	1331.3
10°	1137.8
12.5°	1042.6
15°	983.3
17.5°	906.8
20°	721.1
22.5°	504.1
25°	421.4
27.5°	380.8
30°	344.9
32.5°	316.8
35°	299.7
37.5°	288.7
40°	270.0
42.5°	248.2
45°	227.9
47.5°	207.6
50°	188.9
52.5°	168.6
55°	149.8
57.5°	134.2
60°	118.6
62.5°	104.6
65°	92.1
67.5°	82.7
70°	71.8
72.5°	64.0
75°	56.2
77.5°	49.9
80°	43.7
82.5°	39.0
85°	34.3
87.5°	29.7
90°	25.0
92.5°	23.4
95°	20.3
97.5°	17.2
100°	12.5
102.5°	9.4
105°	6.2
107.5°	3.1
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)