

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: P702503

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

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702503
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-11)
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-CC
Description: FARALLON 6" LED GLASS DOWNLIGHT. CYLINDRICAL CLEAR GLASS KIT.
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

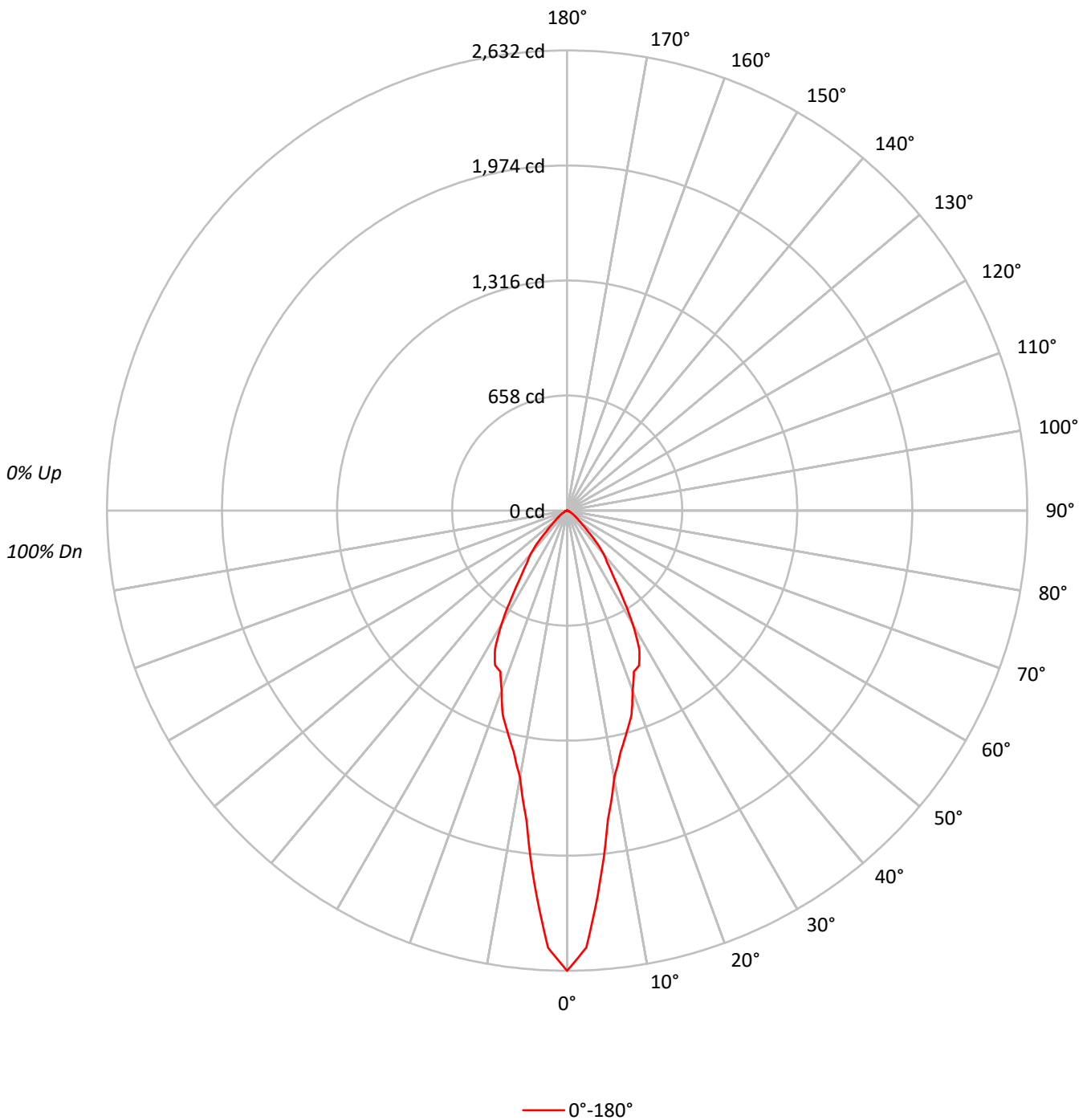
Lumens per Lamp: N/A
Luminaire Lumens: 1511.8 lumens
Efficiency: N/A
Efficacy: 69.3 lumens/watt
Spacing Criteria (0/90/45): 0.44 / 0.44 / 0.71
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

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	111	111	111		106	106	106		102	102	102	100
1	113	110	108	105	111	108	106	104	104	102	100		100	99	97		97	96	94	93
2	107	102	98	94	105	100	96	93	97	94	91		94	91	89		91	89	87	85
3	101	95	89	85	99	93	88	84	90	86	83		88	85	82		86	83	80	79
4	96	88	82	78	94	87	81	77	85	80	76		83	79	75		81	77	74	73
5	91	82	76	71	89	81	75	71	79	74	70		78	73	70		76	72	69	68
6	86	77	71	66	85	76	70	66	74	69	65		73	68	65		72	68	64	63
7	82	72	66	61	80	71	65	61	70	65	61		69	64	61		68	63	60	59
8	78	68	62	57	76	67	61	57	66	61	57		65	60	57		64	60	56	55
9	74	64	58	54	73	63	58	54	62	57	53		62	57	53		61	56	53	52
10	70	60	54	50	69	60	54	50	59	54	50		58	53	50		58	53	50	49

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	171720
5°	140207
10°	102743
15°	88723
20°	75982
25°	70236
30°	56621
35°	36756
40°	27790
45°	15510
50°	9033
55°	5994
60°	4084
65°	2547
70°	2194
75°	1664
80°	1240
85°	1198

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15510 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.1	12.2
10°-20°	367.6	24.3
20°-30°	434.6	28.7
30°-40°	304.1	20.1
40°-50°	141.9	9.4
50°-60°	49.2	3.3
60°-70°	18.7	1.2
70°-80°	7.6	0.5
80°-90°	1.8	0.1
90°-100°	1.1	0.1
100°-110°	0.6	0.0
110°-120°	0.0	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°	987.2	65.3
0°-40°	1291.3	85.4
0°-60°	1482.4	98.1
0°-90°	1510.5	99.9
90°-120°	1.7	0.1
90°-150°	1.7	0.1
90°-180°	2.0	0.1
0°-180°	1511.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2632	
5°	2141	185
15°	1314	368
25°	976	435
35°	462	304
45°	168	142
55°	53	49
65°	16	19
75°	7	8
85°	2	2
90°	0	0
95°	0	1
105°	0	1
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°	2632.1
2.5°	2501.9
5°	2140.9
7.5°	1784.9
10°	1550.9
12.5°	1412.5
15°	1313.6
17.5°	1224.6
20°	1094.4
22.5°	997.1
25°	975.7
27.5°	893.3
30°	751.6
32.5°	591.7
35°	461.5
37.5°	377.4
40°	326.3
42.5°	253.8
45°	168.1
47.5°	117.0
50°	89.0
52.5°	67.6
55°	52.7
57.5°	41.2
60°	31.3
62.5°	23.1
65°	16.5
67.5°	14.8
70°	11.5
72.5°	9.9
75°	6.6
77.5°	4.9
80°	3.3
82.5°	1.6
85°	1.6
87.5°	1.6
90°	0.0
92.5°	0.0
95°	0.0
97.5°	1.6
100°	1.6
102.5°	1.6
105°	0.0
107.5°	0.0
110°	0.0

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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)