

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: P701978

Luminaire Tested: 340-4C-20-D010 / 340-EU4C-1020-9027-4LBW1LI-CC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701978
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-3)
Test Lab: INNOVATION CENTER
Issue Date: 8/30/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 340-4C-20-D010 / 340-EU4C-1020-9027-4LBW1LI-CC
Description: FARALLON 4" LED GLASS DOWNLIGHT. CYLINDRICAL CLEAR GLASS KIT.
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

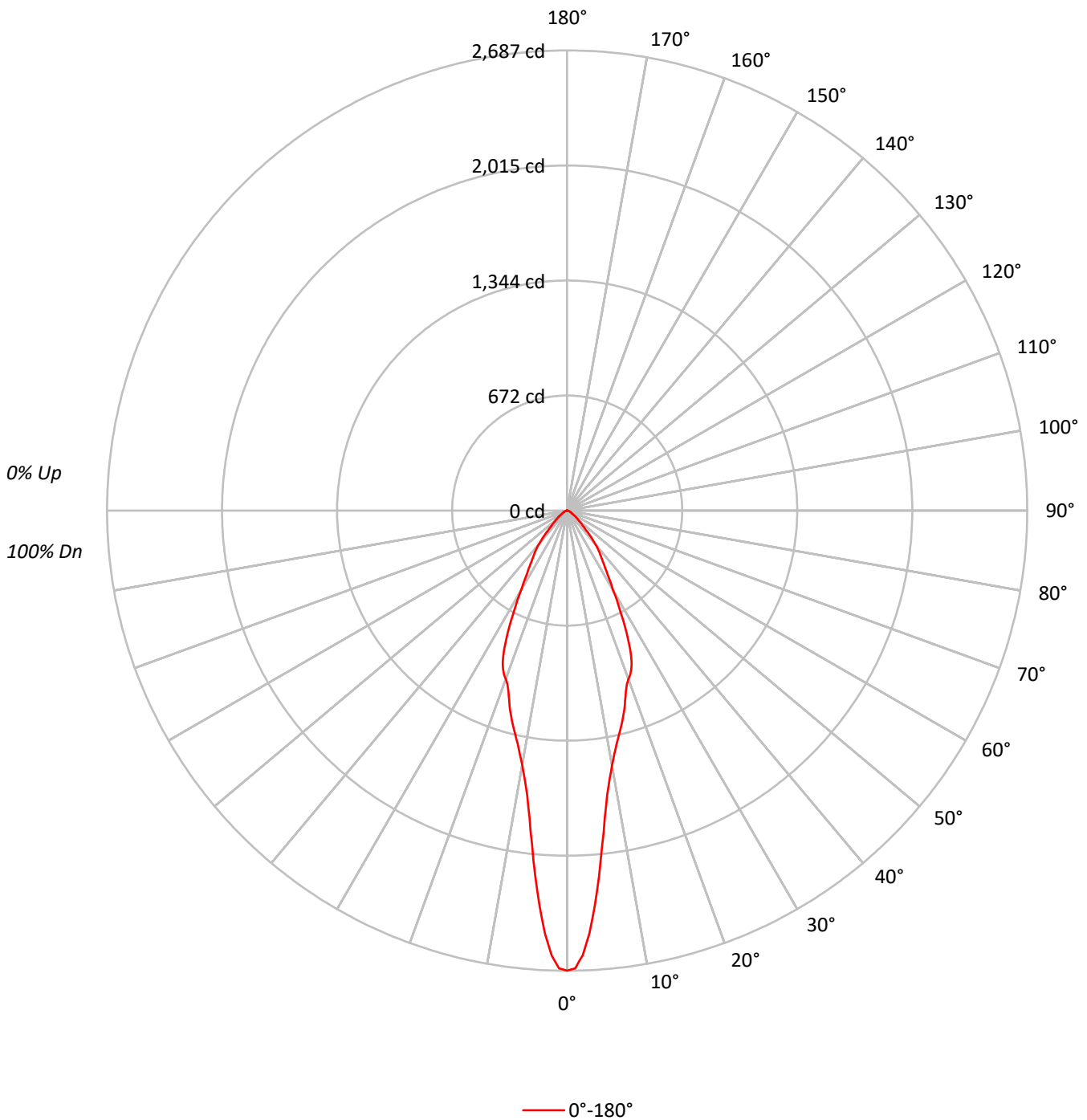
Lumens per Lamp: N/A
Luminaire Lumens: 1343.2 lumens
Efficiency: N/A
Efficacy: 61.6 lumens/watt
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.64
Luminous Opening: Circular (Dia: 0.34' x H: 0')
CIE Type: Direct

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	103	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	85	91	87	83		88	85	82		86	83	81	79
4	96	88	82	78	94	87	82	78	85	80	77		83	79	76		81	78	75	73
5	91	82	76	72	89	82	76	72	80	75	71		78	74	70		76	73	70	68
6	87	77	71	67	85	77	71	67	75	70	66		74	69	66		72	68	65	64
7	82	73	67	62	81	72	66	62	71	66	62		70	65	61		68	64	61	60
8	78	69	63	58	77	68	62	58	67	62	58		66	61	58		65	61	57	56
9	75	65	59	55	74	64	59	55	63	58	55		63	58	54		62	57	54	53
10	71	62	56	52	70	61	55	52	60	55	52		59	55	51		59	54	51	50

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	311600
5°	248896
10°	177895
15°	150814
20°	129277
25°	109430
30°	71918
35°	51326
40°	39199
45°	23046
50°	15211
55°	11061
60°	7214
65°	6504
70°	5528
75°	3988
80°	2939
85°	1996

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 23046 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.8	13.5
10°-20°	349.3	26.0
20°-30°	377.3	28.1
30°-40°	233.1	17.4
40°-50°	116.7	8.7
50°-60°	48.9	3.6
60°-70°	23.0	1.7
70°-80°	10.1	0.8
80°-90°	2.2	0.2
90°-100°	0.2	0.0
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°	908.3	67.6
0°-40°	1141.4	85.0
0°-60°	1307.0	97.3
0°-90°	1342.4	99.9
90°-120°	0.8	0.1
90°-150°	0.8	0.1
90°-180°	1.0	0.1
0°-180°	1343.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2687	
5°	2138	182
15°	1256	349
25°	855	377
35°	362	233
45°	140	117
55°	55	49
65°	24	23
75°	9	10
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	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	2686.6
1°	2673.3
2°	2597.9
3°	2473.6
4°	2312.4
5°	2137.8
6°	1963.2
7°	1804.9
8°	1679.2
9°	1584.5
10°	1510.5
11°	1446.9
12°	1392.1
13°	1344.8
14°	1301.9
15°	1256.0
16°	1210.2
17°	1158.4
18°	1111.1
19°	1072.6
20°	1047.4
21°	1026.7
22°	1000.1
23°	963.1
24°	912.8
25°	855.1
27.5°	687.9
30°	537.0
32.5°	433.5
35°	362.5
37.5°	310.7
40°	258.9
42.5°	193.8
45°	140.5
47.5°	106.5
50°	84.3
52.5°	69.5
55°	54.7
57.5°	38.5
60°	31.1
62.5°	26.6
65°	23.7
67.5°	19.2
70°	16.3
72.5°	11.8

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CANDELA DISTRIBUTION (continued):

	0°
75°	8.9
77.5°	7.4
80°	4.4
82.5°	3.0
85°	1.5
87.5°	1.5
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	1.5
102.5°	1.5
105°	0.0
107.5°	0.0
110°	0.0
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)