

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: P701768

Luminaire Tested: 340-4C-05-D010 / 340-EU4C-1020-9035-4LBW1LI-CC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701768
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-05-D010 / 340-EU4C-1020-9035-4LBW1LI-CC
Description: FARALLON 4" LED GLASS DOWNLIGHT. CYLINDRICAL CLEAR GLASS KIT.
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

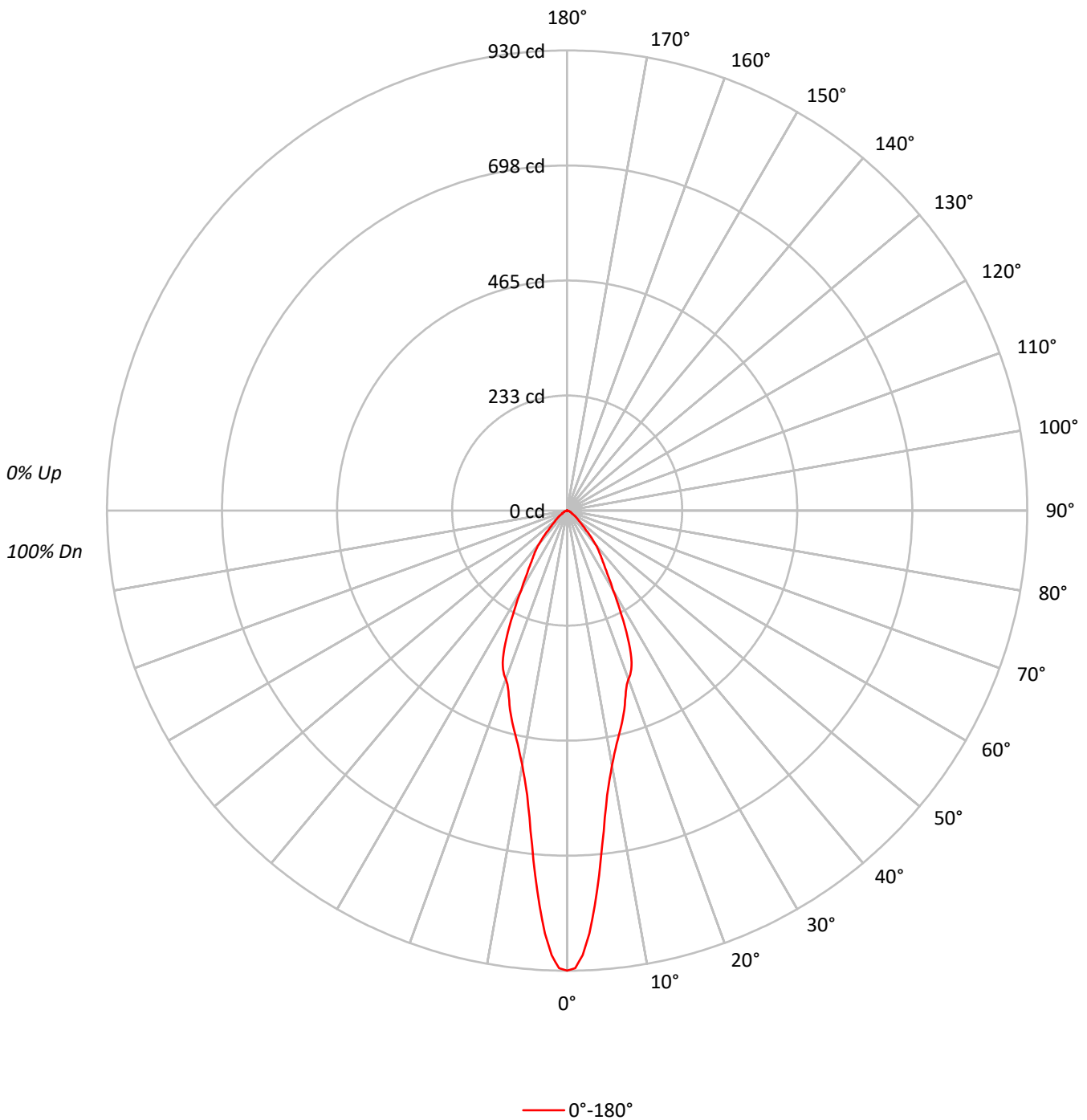
Lumens per Lamp: N/A
Luminaire Lumens: 464.8 lumens
Efficiency: N/A
Efficacy: 64.6 lumens/watt
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.64
Luminous Opening: Circular (Dia: 0.34' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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°	107830
5°	86132
10°	61560
15°	52196
20°	44742
25°	37867
30°	24883
35°	17755
40°	13566
45°	7972
50°	5269
55°	3822
60°	2505
65°	2250
70°	1899
75°	1389
80°	1002
85°	665

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7972 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.9	13.5
10°-20°	120.9	26.0
20°-30°	130.6	28.1
30°-40°	80.6	17.3
40°-50°	40.4	8.7
50°-60°	16.9	3.6
60°-70°	8.0	1.7
70°-80°	3.5	0.8
80°-90°	0.7	0.2
90°-100°	0.1	0.0
100°-110°	0.2	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°	314.3	67.6
0°-40°	395.0	85.0
0°-60°	452.3	97.3
0°-90°	464.6	99.9
90°-120°	0.3	0.1
90°-150°	0.3	0.1
90°-180°	0.0	0.0
0°-180°	464.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	930	
5°	740	63
15°	435	121
25°	296	131
35°	125	81
45°	49	40
55°	19	17
65°	8	8
75°	3	4
85°	0	1
90°	0	0
95°	0	0
105°	0	0
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°	929.7
1°	925.1
2°	899.0
3°	856.0
4°	800.2
5°	739.8
6°	679.4
7°	624.6
8°	581.1
9°	548.3
10°	522.7
11°	500.7
12°	481.8
13°	465.4
14°	450.5
15°	434.7
16°	418.8
17°	400.9
18°	384.5
19°	371.2
20°	362.5
21°	355.3
22°	346.1
23°	333.3
24°	315.9
25°	295.9
27.5°	238.1
30°	185.8
32.5°	150.0
35°	125.4
37.5°	107.5
40°	89.6
42.5°	67.1
45°	48.6
47.5°	36.9
50°	29.2
52.5°	24.1
55°	18.9
57.5°	13.3
60°	10.8
62.5°	9.2
65°	8.2
67.5°	6.7
70°	5.6
72.5°	4.1

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CANDELA DISTRIBUTION (continued):

	0°
75°	3.1
77.5°	2.6
80°	1.5
82.5°	1.0
85°	0.5
87.5°	0.5
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.5
102.5°	0.5
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)