

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: P701782

Luminaire Tested: 340-4C-05-D010 / 340-EU4C-1020-9050-4LBW1LI-CC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701782
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-1020-9050-4LBW1LI-CC
Description: FARALLON 4" LED GLASS DOWNLIGHT. CYLINDRICAL CLEAR GLASS KIT.
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

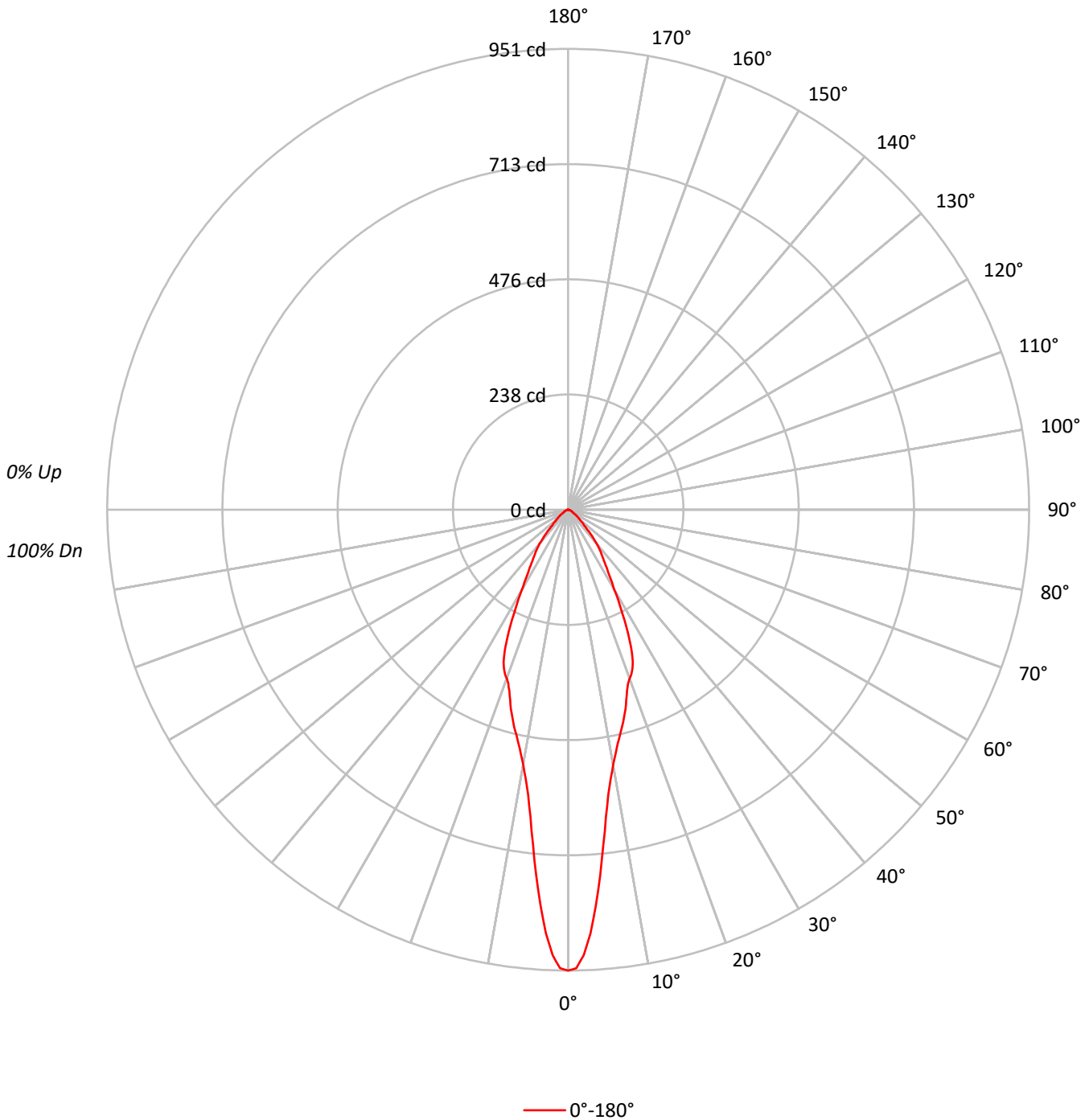
Lumens per Lamp: N/A
Luminaire Lumens: 475.5 lumens
Efficiency: N/A
Efficacy: 66.0 lumens/watt
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.64
Luminous Opening: Circular (Dia: 0.34' x H: 0')
CIE Type: Direct

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°	110312
5°	88111
10°	62985
15°	53397
20°	45767
25°	38738
30°	25459
35°	18166
40°	13884
45°	8168
50°	5395
55°	3923
60°	2552
65°	2305
70°	1967
75°	1389
80°	1069
85°	665

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8168 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.3	13.5
10°-20°	123.7	26.0
20°-30°	133.6	28.1
30°-40°	82.5	17.4
40°-50°	41.3	8.7
50°-60°	17.3	3.6
60°-70°	8.2	1.7
70°-80°	3.6	0.8
80°-90°	0.8	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°	321.6	67.6
0°-40°	404.1	85.0
0°-60°	462.7	97.3
0°-90°	475.2	99.9
90°-120°	0.3	0.1
90°-150°	0.3	0.1
90°-180°	0.0	0.0
0°-180°	475.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	951	
5°	757	64
15°	445	124
25°	303	134
35°	128	83
45°	50	41
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°	951.1
1°	946.4
2°	919.7
3°	875.7
4°	818.6
5°	756.8
6°	695.0
7°	639.0
8°	594.5
9°	560.9
10°	534.8
11°	512.2
12°	492.9
13°	476.1
14°	460.9
15°	444.7
16°	428.4
17°	410.1
18°	393.3
19°	379.7
20°	370.8
21°	363.5
22°	354.1
23°	341.0
24°	323.2
25°	302.7
27.5°	243.5
30°	190.1
32.5°	153.5
35°	128.3
37.5°	110.0
40°	91.7
42.5°	68.6
45°	49.8
47.5°	37.7
50°	29.9
52.5°	24.6
55°	19.4
57.5°	13.6
60°	11.0
62.5°	9.4
65°	8.4
67.5°	6.8
70°	5.8
72.5°	4.2

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CANDELA DISTRIBUTION (continued):

	0°
75°	3.1
77.5°	2.6
80°	1.6
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)