

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: P702062

Luminaire Tested: 340-4C-25-D010 / 340-EU4C-3040-9050-4LBW1LI-CC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702062
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-25-D010 / 340-EU4C-3040-9050-4LBW1LI-CC
Description: FARALLON 4" LED GLASS DOWNLIGHT. CYLINDRICAL CLEAR GLASS KIT.
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

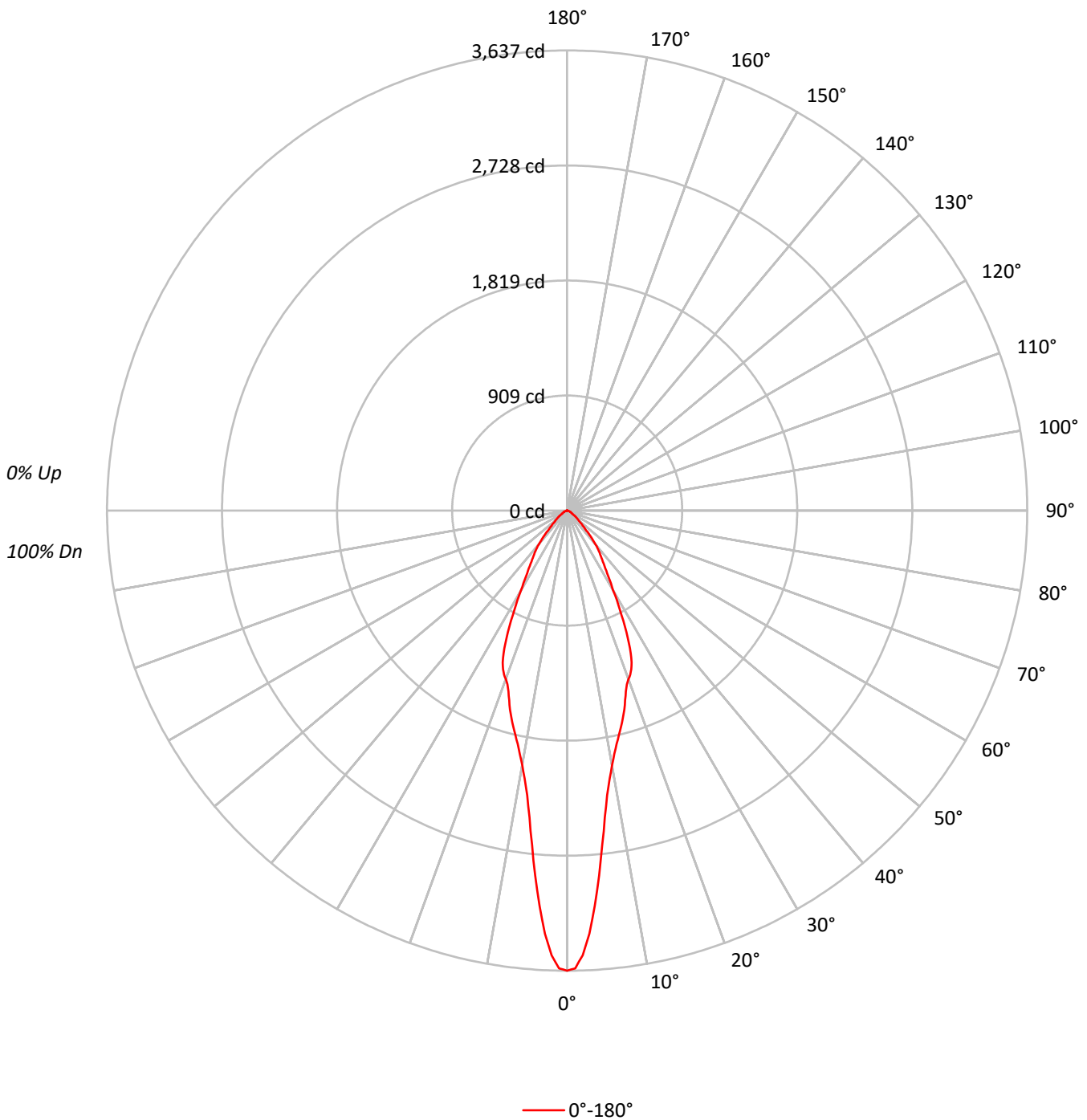
Lumens per Lamp: N/A
Luminaire Lumens: 1818.2 lumens
Efficiency: N/A
Efficacy: 57.7 lumens/watt
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.64
Luminous Opening: Circular (Dia: 0.34' x H: 0')
CIE Type: Direct

Input Watts (W): 31.5
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°	421808
5°	336914
10°	240809
15°	204151
20°	175007
25°	148129
30°	97364
35°	69464
40°	53068
45°	31214
50°	20606
55°	14984
60°	9766
65°	8782
70°	7460
75°	5377
80°	4008
85°	2662

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 31214 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.0	13.5
10°-20°	472.8	26.0
20°-30°	510.7	28.1
30°-40°	315.5	17.4
40°-50°	158.0	8.7
50°-60°	66.3	3.6
60°-70°	31.2	1.7
70°-80°	13.7	0.8
80°-90°	3.0	0.2
90°-100°	0.3	0.0
100°-110°	0.8	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°	1229.5	67.6
0°-40°	1545.0	85.0
0°-60°	1769.3	97.3
0°-90°	1817.2	99.9
90°-120°	1.1	0.1
90°-150°	1.1	0.1
90°-180°	1.0	0.1
0°-180°	1818.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3637	
5°	2894	246
15°	1700	473
25°	1158	511
35°	491	315
45°	190	158
55°	74	66
65°	32	31
75°	12	14
85°	2	3
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°	3636.8
1°	3618.8
2°	3516.7
3°	3348.4
4°	3130.1
5°	2893.8
6°	2657.5
7°	2443.2
8°	2273.0
9°	2144.8
10°	2044.7
11°	1958.6
12°	1884.5
13°	1820.4
14°	1762.3
15°	1700.2
16°	1638.2
17°	1568.1
18°	1504.0
19°	1451.9
20°	1417.9
21°	1389.8
22°	1353.8
23°	1303.7
24°	1235.6
25°	1157.5
27.5°	931.2
30°	727.0
32.5°	586.8
35°	490.6
37.5°	420.6
40°	350.5
42.5°	262.3
45°	190.3
47.5°	144.2
50°	114.2
52.5°	94.1
55°	74.1
57.5°	52.1
60°	42.1
62.5°	36.0
65°	32.0
67.5°	26.0
70°	22.0
72.5°	16.0

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CANDELA DISTRIBUTION (continued):

	0°
75°	12.0
77.5°	10.0
80°	6.0
82.5°	4.0
85°	2.0
87.5°	2.0
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	2.0
102.5°	2.0
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)