

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: P702216

Luminaire Tested: 340-4C-40-D010 / 340-EU4C-3040-9035-4LBW1LI-CC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702216
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-40-D010 / 340-EU4C-3040-9035-4LBW1LI-CC
Description: FARALLON 4" LED GLASS DOWNLIGHT. CYLINDRICAL CLEAR GLASS KIT.
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

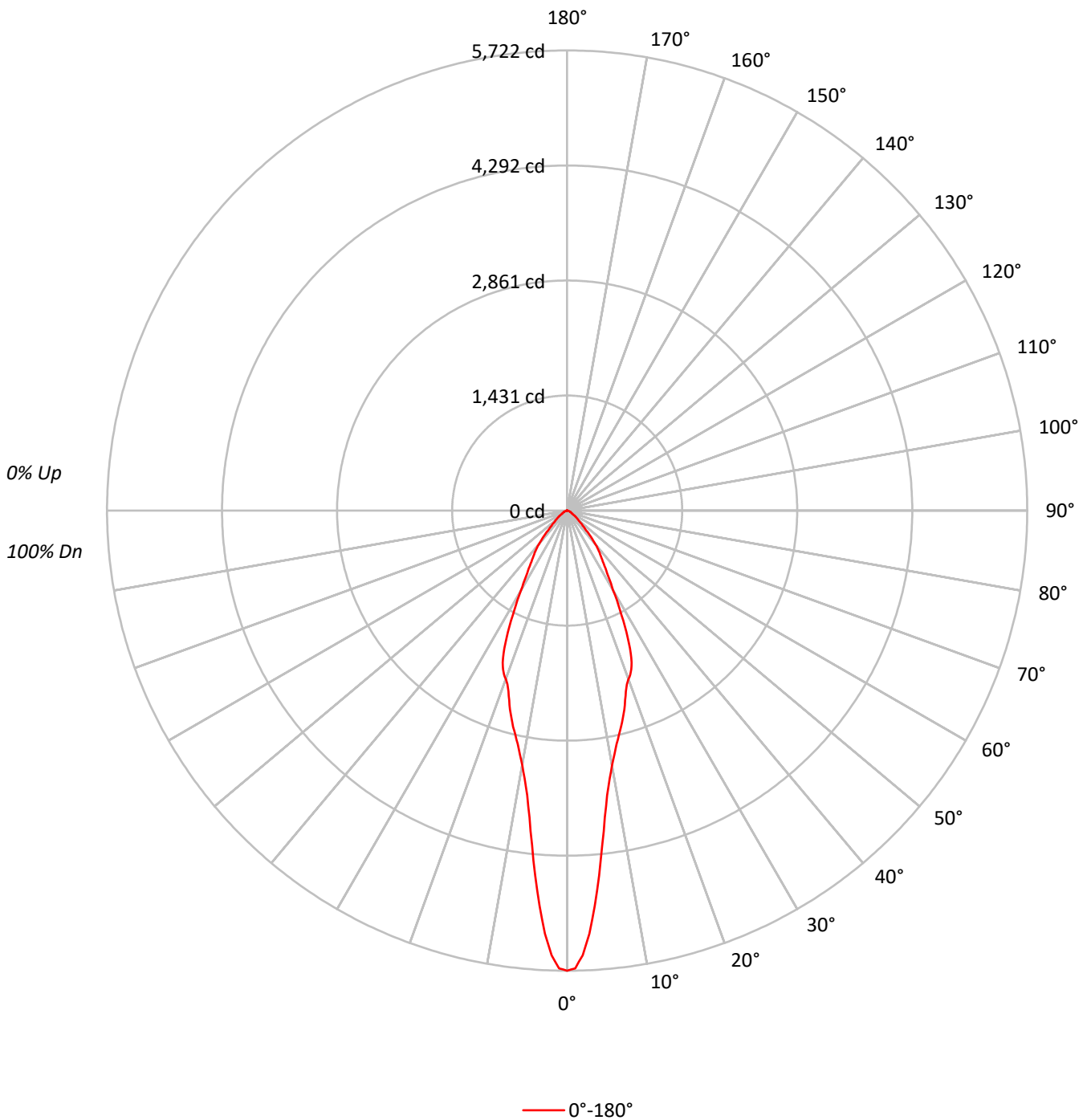
Lumens per Lamp: N/A
Luminaire Lumens: 2860.9 lumens
Efficiency: N/A
Efficacy: 60.9 lumens/watt
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.64
Luminous Opening: Circular (Dia: 0.34' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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°	663656
5°	530089
10°	378874
15°	321212
20°	275340
25°	233065
30°	153184
35°	109307
40°	83485
45°	49093
50°	32407
55°	23578
60°	15356
65°	13832
70°	11767
75°	8470
80°	6345
85°	4258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 49093 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.1	13.5
10°-20°	743.9	26.0
20°-30°	803.5	28.1
30°-40°	496.3	17.3
40°-50°	248.6	8.7
50°-60°	104.3	3.6
60°-70°	49.1	1.7
70°-80°	21.6	0.8
80°-90°	4.7	0.2
90°-100°	0.4	0.0
100°-110°	1.3	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°	1934.5	67.6
0°-40°	2430.9	85.0
0°-60°	2783.8	97.3
0°-90°	2859.2	99.9
90°-120°	1.7	0.1
90°-150°	1.7	0.1
90°-180°	2.0	0.1
0°-180°	2860.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5722	
5°	4553	387
15°	2675	744
25°	1821	804
35°	772	496
45°	299	249
55°	117	104
65°	50	49
75°	19	22
85°	3	4
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°	5722.0
1°	5693.6
2°	5532.9
3°	5268.3
4°	4924.8
5°	4553.0
6°	4181.2
7°	3844.1
8°	3576.2
9°	3374.6
10°	3217.0
11°	3081.6
12°	2965.0
13°	2864.1
14°	2772.8
15°	2675.1
16°	2577.4
17°	2467.1
18°	2366.3
19°	2284.4
20°	2230.8
21°	2186.7
22°	2130.0
23°	2051.2
24°	1944.1
25°	1821.2
27.5°	1465.2
30°	1143.8
32.5°	923.2
35°	772.0
37.5°	661.7
40°	551.4
42.5°	412.8
45°	299.3
47.5°	226.9
50°	179.6
52.5°	148.1
55°	116.6
57.5°	81.9
60°	66.2
62.5°	56.7
65°	50.4
67.5°	41.0
70°	34.7
72.5°	25.2

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CANDELA DISTRIBUTION (continued):

	0°
75°	18.9
77.5°	15.8
80°	9.5
82.5°	6.3
85°	3.2
87.5°	3.2
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	3.2
102.5°	3.2
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)