

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: P701747

Luminaire Tested: 340-4C-05-D010 / 340-EU4C-1020-9024-4LBW1LI-CC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701747
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-1020-9024-4LBW1LI-CC
Description: FARALLON 4" LED GLASS DOWNLIGHT. CYLINDRICAL CLEAR GLASS KIT.
Light Source: 2400K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

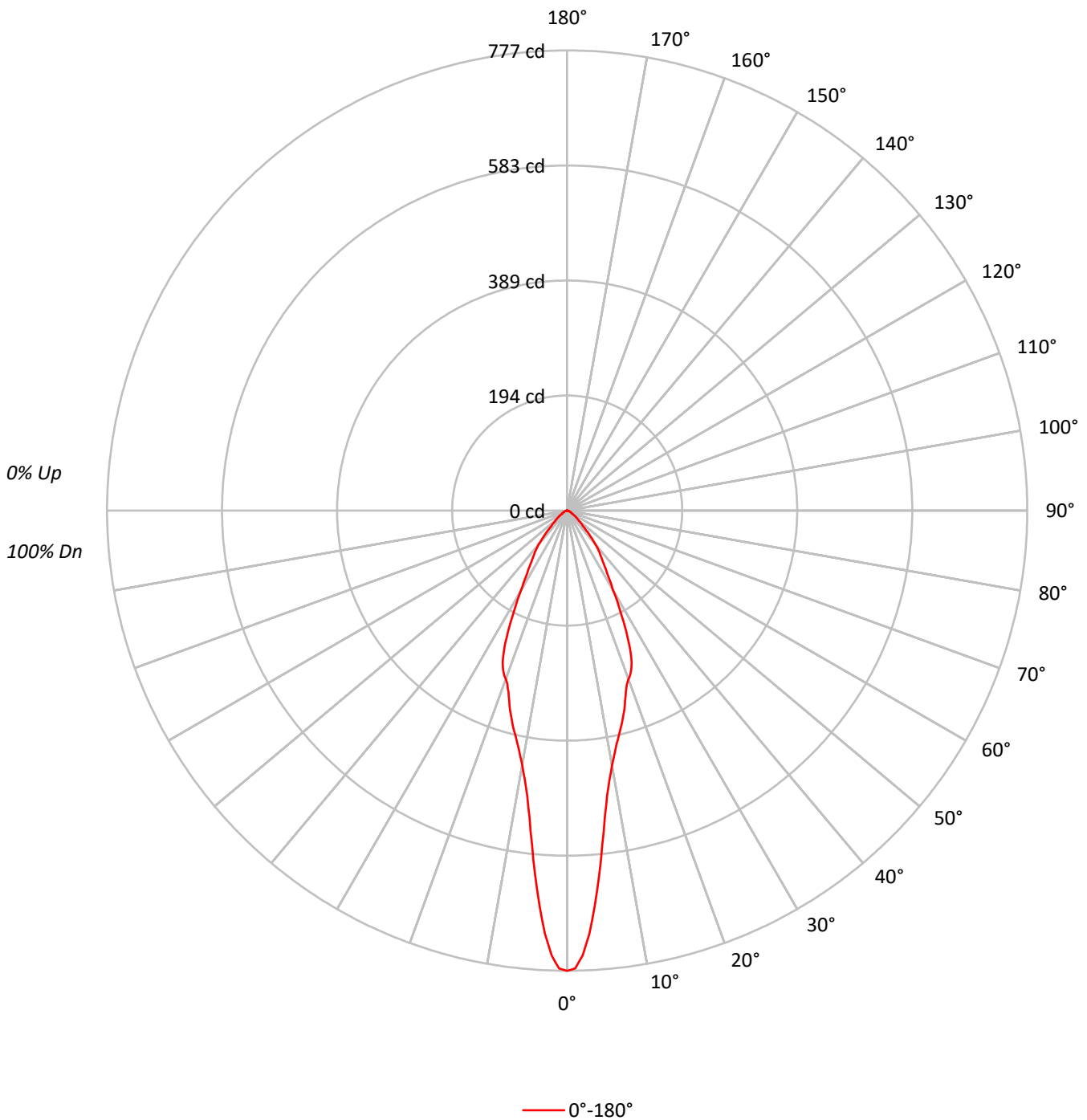
Lumens per Lamp: N/A
Luminaire Lumens: 388.5 lumens
Efficiency: N/A
Efficacy: 54.0 lumens/watt
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.64
Luminous Opening: Circular (Dia: 0.34' x H: 0')
CIE Type: Direct

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°	90131
5°	71998
10°	51455
15°	43623
20°	37398
25°	31661
30°	20799
35°	14839
40°	11340
45°	6676
50°	4403
55°	3195
60°	2088
65°	1866
70°	1594
75°	1165
80°	868
85°	532

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6676 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.6	13.5
10°-20°	101.0	26.0
20°-30°	109.1	28.1
30°-40°	67.4	17.3
40°-50°	33.8	8.7
50°-60°	14.1	3.6
60°-70°	6.7	1.7
70°-80°	2.9	0.8
80°-90°	0.6	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°	262.7	67.6
0°-40°	330.2	85.0
0°-60°	378.1	97.3
0°-90°	388.3	99.9
90°-120°	0.2	0.1
90°-150°	0.2	0.1
90°-180°	0.0	0.0
0°-180°	388.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	777	
5°	618	53
15°	363	101
25°	247	109
35°	105	67
45°	41	34
55°	16	14
65°	7	7
75°	3	3
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°	777.1
1°	773.3
2°	751.5
3°	715.5
4°	668.9
5°	618.4
6°	567.9
7°	522.1
8°	485.7
9°	458.3
10°	436.9
11°	418.5
12°	402.7
13°	389.0
14°	376.6
15°	363.3
16°	350.1
17°	335.1
18°	321.4
19°	310.3
20°	303.0
21°	297.0
22°	289.3
23°	278.6
24°	264.0
25°	247.4
27.5°	199.0
30°	155.3
32.5°	125.4
35°	104.8
37.5°	89.9
40°	74.9
42.5°	56.1
45°	40.7
47.5°	30.8
50°	24.4
52.5°	20.1
55°	15.8
57.5°	11.1
60°	9.0
62.5°	7.7
65°	6.8
67.5°	5.6
70°	4.7
72.5°	3.4

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CANDELA DISTRIBUTION (continued):

	0°
75°	2.6
77.5°	2.1
80°	1.3
82.5°	0.9
85°	0.4
87.5°	0.4
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.4
102.5°	0.4
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)