

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: P701817

Luminaire Tested: 340-4C-08-D010 / 340-EU4C-1020-9030-4LBW1LI-CC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701817
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-08-D010 / 340-EU4C-1020-9030-4LBW1LI-CC
Description: FARALLON 4" LED GLASS DOWNLIGHT. CYLINDRICAL CLEAR GLASS KIT.
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

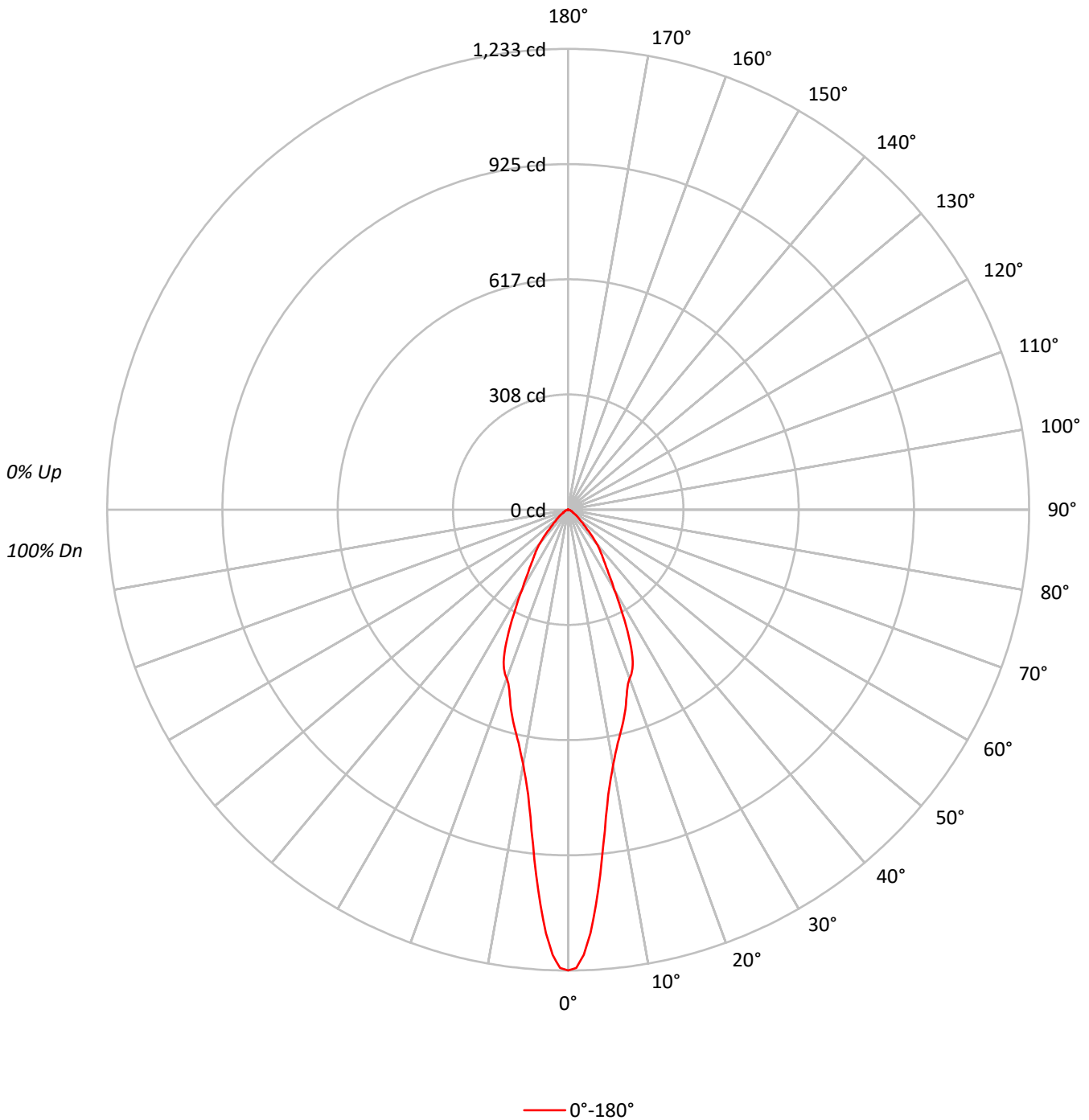
Lumens per Lamp: N/A
Luminaire Lumens: 616.3 lumens
Efficiency: N/A
Efficacy: 62.3 lumens/watt
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.64
Luminous Opening: Circular (Dia: 0.34' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
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°	142972
5°	114191
10°	81616
15°	69199
20°	59319
25°	50204
30°	32999
35°	23546
40°	17987
45°	10580
50°	6983
55°	5075
60°	3317
65°	2991
70°	2543
75°	1837
80°	1336
85°	932

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10580 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.4	13.5
10°-20°	160.3	26.0
20°-30°	173.1	28.1
30°-40°	106.9	17.3
40°-50°	53.6	8.7
50°-60°	22.5	3.6
60°-70°	10.6	1.7
70°-80°	4.6	0.8
80°-90°	1.0	0.2
90°-100°	0.1	0.0
100°-110°	0.3	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°	416.7	67.6
0°-40°	523.7	85.0
0°-60°	599.7	97.3
0°-90°	615.9	99.9
90°-120°	0.4	0.1
90°-150°	0.4	0.1
90°-180°	0.0	0.0
0°-180°	616.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1233	
5°	981	83
15°	576	160
25°	392	173
35°	166	107
45°	64	54
55°	25	22
65°	11	11
75°	4	5
85°	1	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°	1232.7
1°	1226.6
2°	1192.0
3°	1134.9
4°	1060.9
5°	980.8
6°	900.8
7°	828.1
8°	770.4
9°	727.0
10°	693.0
11°	663.9
12°	638.7
13°	617.0
14°	597.3
15°	576.3
16°	555.2
17°	531.5
18°	509.8
19°	492.1
20°	480.6
21°	471.1
22°	458.9
23°	441.9
24°	418.8
25°	392.3
27.5°	315.6
30°	246.4
32.5°	198.9
35°	166.3
37.5°	142.5
40°	118.8
42.5°	88.9
45°	64.5
47.5°	48.9
50°	38.7
52.5°	31.9
55°	25.1
57.5°	17.6
60°	14.3
62.5°	12.2
65°	10.9
67.5°	8.8
70°	7.5
72.5°	5.4

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CANDELA DISTRIBUTION (continued):

	0°
75°	4.1
77.5°	3.4
80°	2.0
82.5°	1.4
85°	0.7
87.5°	0.7
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.7
102.5°	0.7
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)