

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: P702104

Luminaire Tested: 340-4C-30-D010 / 340-EU4C-3040-9035-4LBW1LI-CC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702104
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-30-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

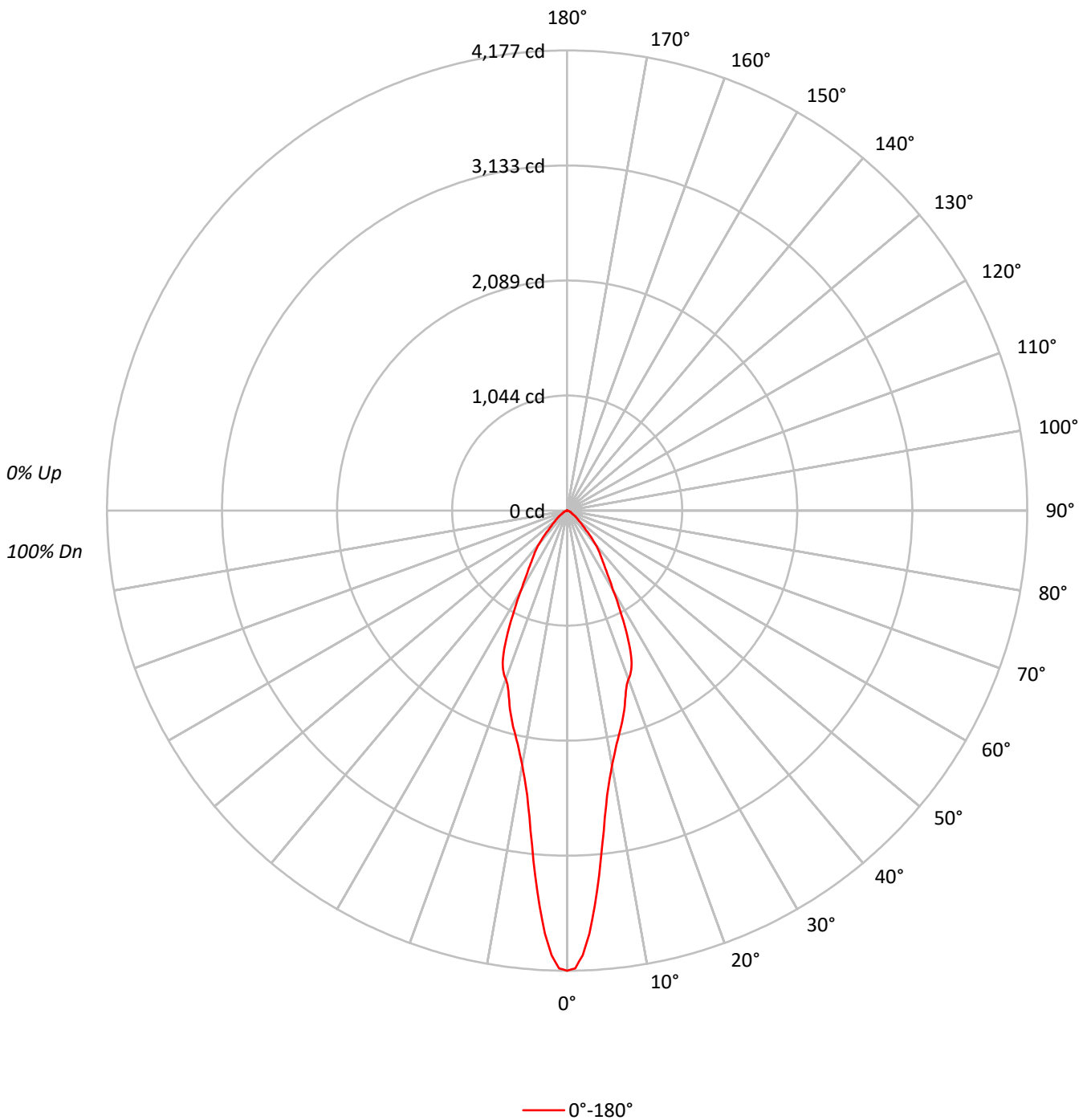
Lumens per Lamp: N/A
Luminaire Lumens: 2088.3 lumens
Efficiency: N/A
Efficacy: 66.1 lumens/watt
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.64
Luminous Opening: Circular (Dia: 0.34' x H: 0')
CIE Type: Direct

Input Watts (W): 31.6
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°	484462
5°	386966
10°	276577
15°	234482
20°	201000
25°	170140
30°	111815
35°	79786
40°	60941
45°	35839
50°	23655
55°	17208
60°	11204
65°	10099
70°	8580
75°	6184
80°	4609
85°	3061

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 35839 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.6	13.5
10°-20°	543.1	26.0
20°-30°	586.6	28.1
30°-40°	362.3	17.3
40°-50°	181.5	8.7
50°-60°	76.1	3.6
60°-70°	35.8	1.7
70°-80°	15.8	0.8
80°-90°	3.4	0.2
90°-100°	0.3	0.0
100°-110°	0.9	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°	1412.2	67.6
0°-40°	1774.5	85.0
0°-60°	2032.1	97.3
0°-90°	2087.1	99.9
90°-120°	1.2	0.1
90°-150°	1.2	0.1
90°-180°	1.0	0.0
0°-180°	2088.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4177	
5°	3324	283
15°	1953	543
25°	1330	587
35°	564	362
45°	218	181
55°	85	76
65°	37	36
75°	14	16
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	0

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CANDELA DISTRIBUTION (FULL):

0°	
0°	4177.0
1°	4156.3
2°	4039.0
3°	3845.8
4°	3595.1
5°	3323.7
6°	3052.3
7°	2806.2
8°	2610.6
9°	2463.4
10°	2348.4
11°	2249.5
12°	2164.4
13°	2090.8
14°	2024.1
15°	1952.8
16°	1881.5
17°	1801.0
18°	1727.4
19°	1667.6
20°	1628.5
21°	1596.3
22°	1554.9
23°	1497.4
24°	1419.2
25°	1329.5
27.5°	1069.6
30°	834.9
32.5°	673.9
35°	563.5
37.5°	483.0
40°	402.5
42.5°	301.3
45°	218.5
47.5°	165.6
50°	131.1
52.5°	108.1
55°	85.1
57.5°	59.8
60°	48.3
62.5°	41.4
65°	36.8
67.5°	29.9
70°	25.3
72.5°	18.4

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CANDELA DISTRIBUTION (continued):

	0°
75°	13.8
77.5°	11.5
80°	6.9
82.5°	4.6
85°	2.3
87.5°	2.3
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	2.3
102.5°	2.3
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)