

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: P702160

Luminaire Tested: 340-4C-35-D010 / 340-EU4C-3040-9035-4LBW1LI-CC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702160
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-35-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

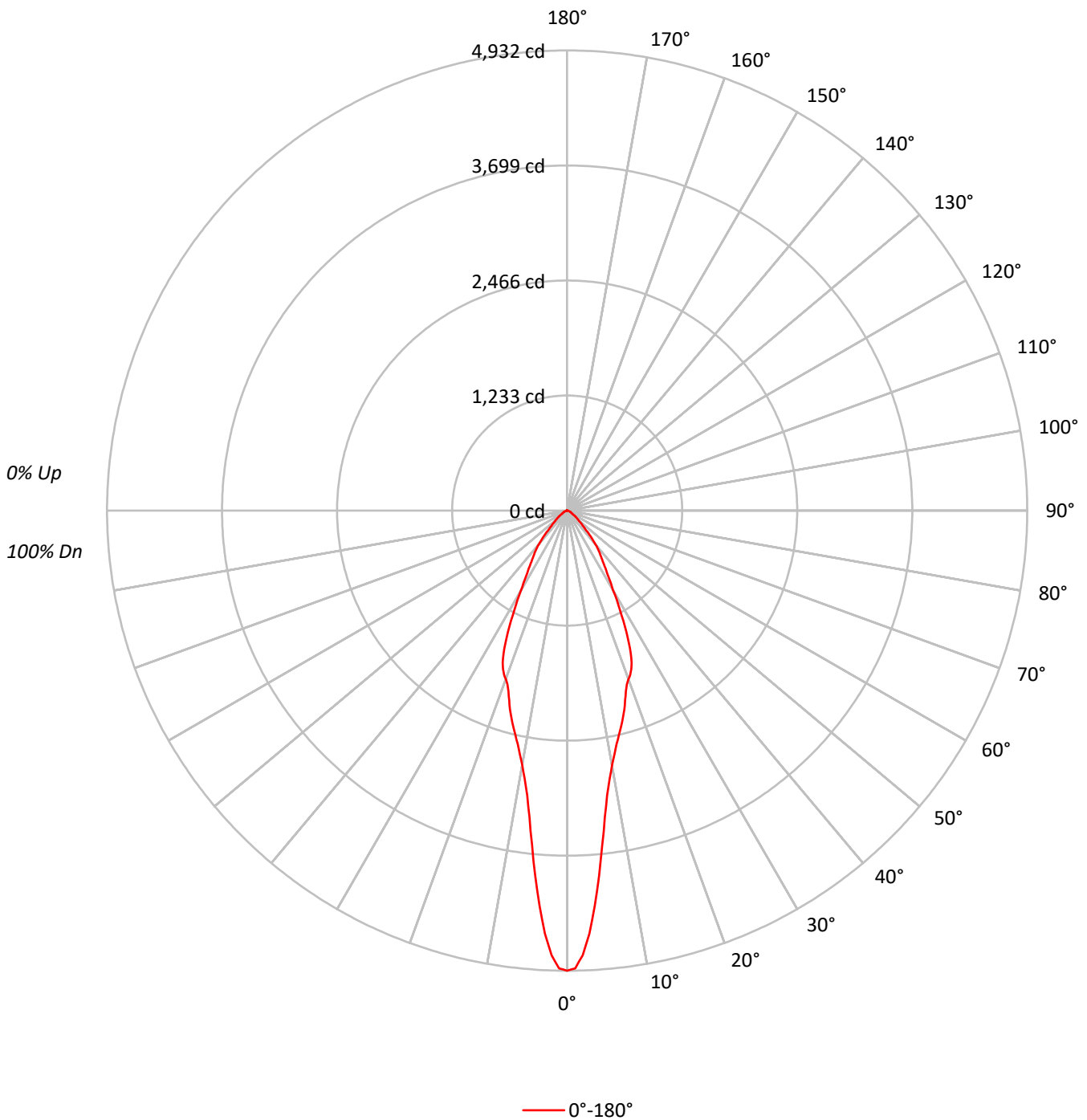
Lumens per Lamp: N/A
Luminaire Lumens: 2465.7 lumens
Efficiency: N/A
Efficacy: 61.0 lumens/watt
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.64
Luminous Opening: Circular (Dia: 0.34' x H: 0')
CIE Type: Direct

Input Watts (W): 40.4
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°	571994
5°	456880
10°	326559
15°	276844
20°	237313
25°	200880
30°	132024
35°	94214
40°	71963
45°	42318
50°	27932
55°	20322
60°	13222
65°	11938
70°	10139
75°	7304
80°	5410
85°	3593

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 42318 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.6	13.5
10°-20°	641.2	26.0
20°-30°	692.5	28.1
30°-40°	427.8	17.4
40°-50°	214.3	8.7
50°-60°	89.9	3.6
60°-70°	42.3	1.7
70°-80°	18.6	0.8
80°-90°	4.0	0.2
90°-100°	0.4	0.0
100°-110°	1.1	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°	1667.4	67.6
0°-40°	2095.1	85.0
0°-60°	2399.3	97.3
0°-90°	2464.2	99.9
90°-120°	1.5	0.1
90°-150°	1.5	0.1
90°-180°	1.0	0.0
0°-180°	2465.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4932	
5°	3924	334
15°	2306	641
25°	1570	693
35°	665	428
45°	258	214
55°	100	90
65°	44	42
75°	16	19
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	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	4931.7
1°	4907.3
2°	4768.8
3°	4540.7
4°	4244.7
5°	3924.2
6°	3603.8
7°	3313.2
8°	3082.3
9°	2908.5
10°	2772.8
11°	2656.0
12°	2555.5
13°	2468.6
14°	2389.8
15°	2305.6
16°	2221.5
17°	2126.4
18°	2039.5
19°	1968.9
20°	1922.7
21°	1884.7
22°	1835.8
23°	1767.9
24°	1675.6
25°	1569.7
27.5°	1262.8
30°	985.8
32.5°	795.7
35°	665.4
37.5°	570.3
40°	475.3
42.5°	355.8
45°	258.0
47.5°	195.5
50°	154.8
52.5°	127.6
55°	100.5
57.5°	70.6
60°	57.0
62.5°	48.9
65°	43.5
67.5°	35.3
70°	29.9
72.5°	21.7

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CANDELA DISTRIBUTION (continued):

	0°
75°	16.3
77.5°	13.6
80°	8.1
82.5°	5.4
85°	2.7
87.5°	2.7
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	2.7
102.5°	2.7
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)