

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: P702238

Luminaire Tested: 340-4C-40-D010 / 340-EU4C-3040-9727-4LBW1LI-CF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702238
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-4)
Test Lab: INNOVATION CENTER
Issue Date: 8/30/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 340-4C-40-D010 / 340-EU4C-3040-9727-4LBW1LI-CF
Description: FARALLON 4" LED GLASS DOWNLIGHT. CYLINDRICAL FROSTED GLASS KIT.
Light Source: 2700K CCT, 97 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

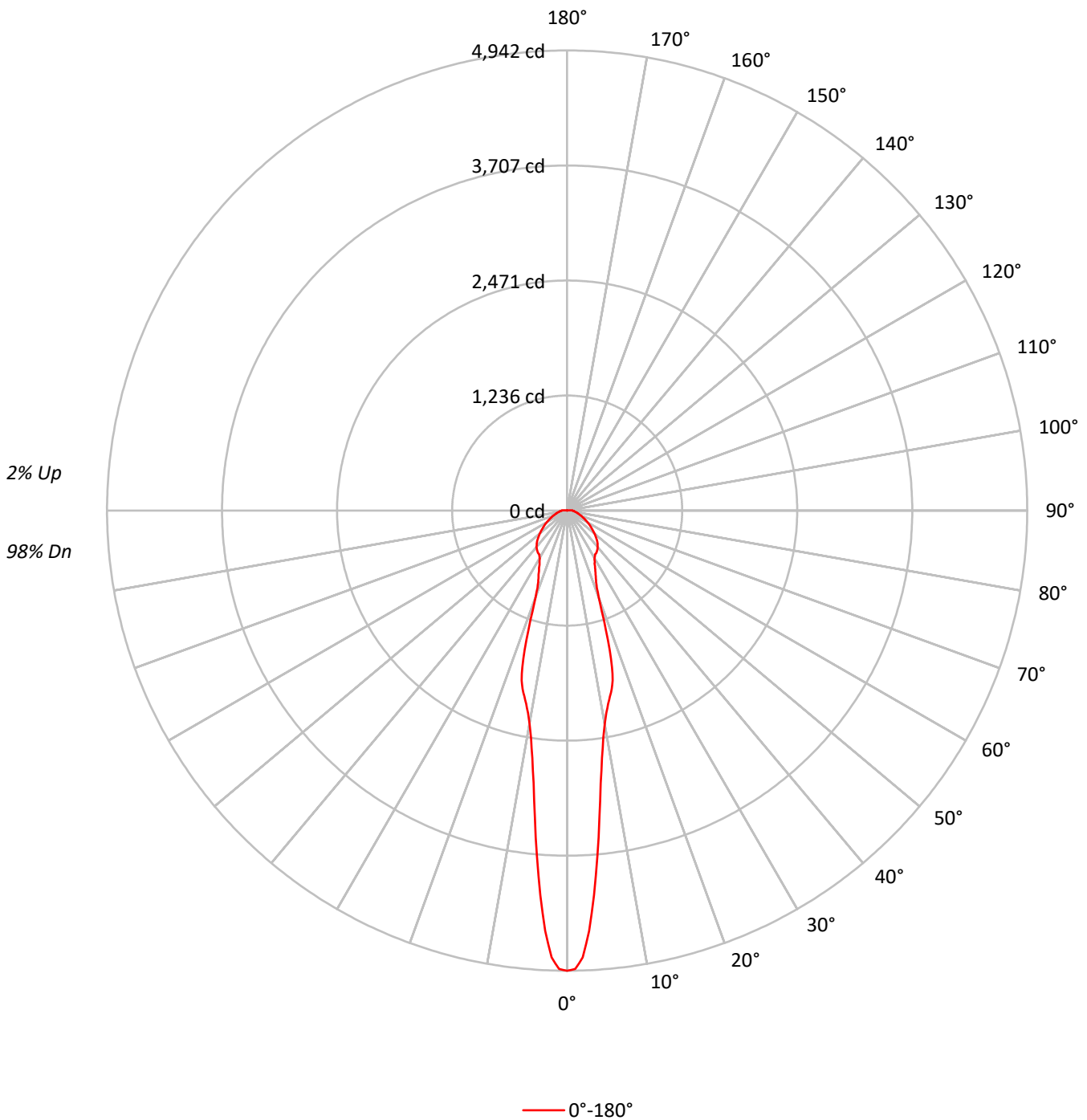
Lumens per Lamp: N/A
Luminaire Lumens: 2558.6 lumens
Efficiency: N/A
Efficacy: 54.4 lumens/watt
Spacing Criteria (0/90/45): 0.3 / 0.3 / 0.45
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

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

TEST NUMBER: P702238

CATALOG NUMBER: 340-4C-40-D010 / 340-EU4C-3040-9727-4LBW1LI-CF

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	110	110	110		105	105	105		100	100	100	98
1	109	105	101	98	106	103	99	96	98	95	92		94	91	89		90	88	86	84
2	101	94	88	83	98	92	86	82	88	83	80		85	81	77		81	78	75	73
3	94	85	78	72	91	83	76	71	80	74	70		77	72	68		74	70	67	65
4	87	77	70	64	85	76	69	63	73	67	62		71	65	61		68	64	60	58
5	82	71	63	57	80	70	62	57	67	61	56		65	60	55		63	59	55	53
6	77	65	58	52	75	64	57	52	62	56	51		61	55	51		59	54	50	48
7	72	61	53	48	71	60	53	48	58	52	47		57	51	47		55	50	46	45
8	69	57	49	44	67	56	49	44	55	48	44		53	48	43		52	47	43	41
9	65	53	46	41	64	53	46	41	52	45	41		50	45	41		49	44	40	39
10	62	50	43	39	61	50	43	39	49	43	39		48	42	38		47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	573212
5°	378313
10°	210439
15°	155854
20°	75220
25°	51221
30°	39810
35°	35567
40°	31905
45°	27617
50°	22829
55°	18523
60°	14953
65°	11840
70°	9304
75°	7483
80°	6008
85°	4872

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 27617 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.3	11.9
10°-20°	481.8	18.8
20°-30°	334.8	13.1
30°-40°	343.1	13.4
40°-50°	347.8	13.6
50°-60°	282.1	11.0
60°-70°	199.2	7.8
70°-80°	130.2	5.1
80°-90°	81.9	3.2
90°-100°	44.1	1.7
100°-110°	8.4	0.3
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°	1121.9	43.8
0°-40°	1465.1	57.3
0°-60°	2094.9	81.9
0°-90°	2506.1	97.9
90°-120°	52.5	2.1
90°-150°	52.5	2.1
90°-180°	52.0	2.0
0°-180°	2558.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4942	
5°	3732	305
15°	1888	482
25°	717	335
35°	550	343
45°	454	348
55°	314	282
65°	200	199
75°	122	130
85°	75	65
90°	57	32
95°	42	29
105°	6	8
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°	4942.2
1°	4924.2
2°	4801.7
3°	4520.8
4°	4141.4
5°	3732.0
6°	3319.7
7°	2949.2
8°	2683.2
9°	2474.1
10°	2321.7
11°	2211.1
12°	2121.5
13°	2046.8
14°	1975.1
15°	1888.4
16°	1751.0
17°	1562.7
18°	1347.6
19°	1141.4
20°	986.0
21°	890.4
22°	827.7
23°	788.8
24°	753.0
25°	717.1
27.5°	639.4
30°	588.6
32.5°	558.8
35°	549.8
37.5°	531.9
40°	510.9
42.5°	484.1
45°	454.2
47.5°	418.3
50°	382.5
52.5°	346.6
55°	313.7
57.5°	283.9
60°	254.0
62.5°	224.1
65°	200.2
67.5°	176.3
70°	155.4
72.5°	137.4

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CATALOG NUMBER: 340-4C-40-D010 / 340-EU4C-3040-9727-4LBW1LI-CF

CANDELA DISTRIBUTION (continued):

	0°
75°	122.5
77.5°	107.6
80°	95.6
82.5°	83.7
85°	74.7
87.5°	65.7
90°	56.8
92.5°	50.8
95°	41.8
97.5°	29.9
100°	20.9
102.5°	12.0
105°	6.0
107.5°	3.0
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)