

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: P702077

Luminaire Tested: 340-4C-25-D010 / 340-EU4C-3040-9730-4LBW1LI-CF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702077
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-25-D010 / 340-EU4C-3040-9730-4LBW1LI-CF
Description: FARALLON 4" LED GLASS DOWNLIGHT. CYLINDRICAL FROSTED GLASS KIT.
Light Source: 3000K CCT, 97 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

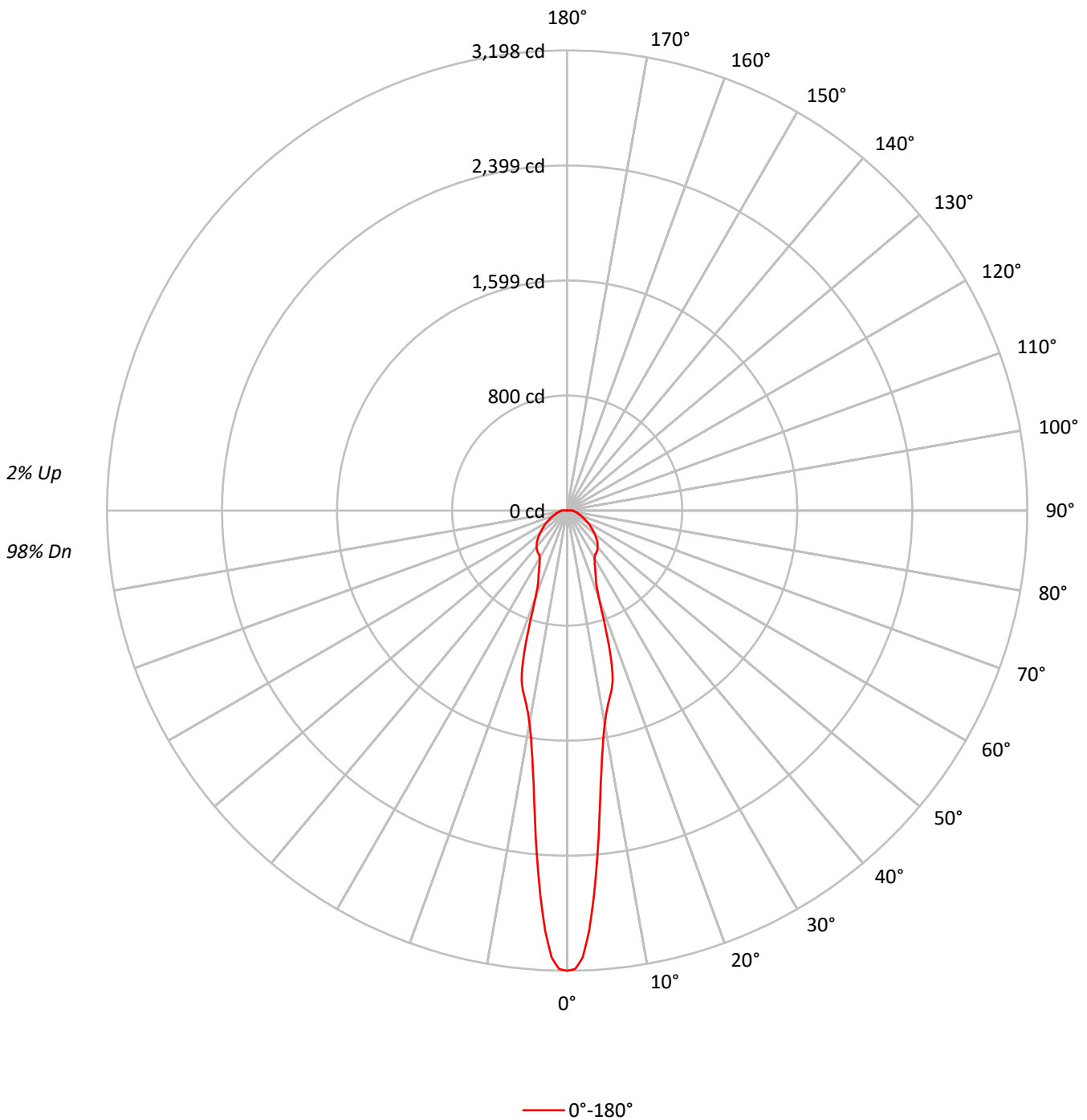
Lumens per Lamp: N/A
Luminaire Lumens: 1655.6 lumens
Efficiency: N/A
Efficacy: 52.6 lumens/watt
Spacing Criteria (0/90/45): 0.3 / 0.3 / 0.45
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 31.5
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	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°	370926
5°	244809
10°	136178
15°	100854
20°	48680
25°	33150
30°	25762
35°	23017
40°	20645
45°	17870
50°	14772
55°	11987
60°	9678
65°	7658
70°	6017
75°	4844
80°	3890
85°	3150

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17870 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.6	11.9
10°-20°	311.8	18.8
20°-30°	216.7	13.1
30°-40°	222.1	13.4
40°-50°	225.0	13.6
50°-60°	182.5	11.0
60°-70°	128.9	7.8
70°-80°	84.2	5.1
80°-90°	52.9	3.2
90°-100°	28.5	1.7
100°-110°	5.4	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°	726.0	43.9
0°-40°	948.1	57.3
0°-60°	1355.6	81.9
0°-90°	1621.7	98.0
90°-120°	33.9	2.0
90°-150°	33.9	2.0
90°-180°	34.0	2.1
0°-180°	1655.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3198	
5°	2415	198
15°	1222	312
25°	464	217
35°	356	222
45°	294	225
55°	203	183
65°	130	129
75°	79	84
85°	48	42
90°	37	20
95°	27	19
105°	4	5
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°	3198.1
1°	3186.5
2°	3107.3
3°	2925.5
4°	2679.9
5°	2415.0
6°	2148.2
7°	1908.4
8°	1736.4
9°	1601.0
10°	1502.4
11°	1430.8
12°	1372.8
13°	1324.5
14°	1278.1
15°	1222.0
16°	1133.1
17°	1011.3
18°	872.0
19°	738.6
20°	638.1
21°	576.2
22°	535.6
23°	510.5
24°	487.3
25°	464.1
27.5°	413.8
30°	380.9
32.5°	361.6
35°	355.8
37.5°	344.2
40°	330.6
42.5°	313.2
45°	293.9
47.5°	270.7
50°	247.5
52.5°	224.3
55°	203.0
57.5°	183.7
60°	164.4
62.5°	145.0
65°	129.5
67.5°	114.1
70°	100.5
72.5°	88.9

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CANDELA DISTRIBUTION (continued):

	0°
75°	79.3
77.5°	69.6
80°	61.9
82.5°	54.1
85°	48.3
87.5°	42.5
90°	36.7
92.5°	32.9
95°	27.1
97.5°	19.3
100°	13.5
102.5°	7.7
105°	3.9
107.5°	1.9
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)