

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: P702245

Luminaire Tested: 340-4C-40-D010 / 340-EU4C-3040-9730-4LBW1LI-CF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702245
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-3040-9730-4LBW1LI-CF
Description: FARALLON 4" LED GLASS DOWNLIGHT. CYLINDRICAL FROSTED GLASS KIT.
Light Source: 3000K CCT, 97 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

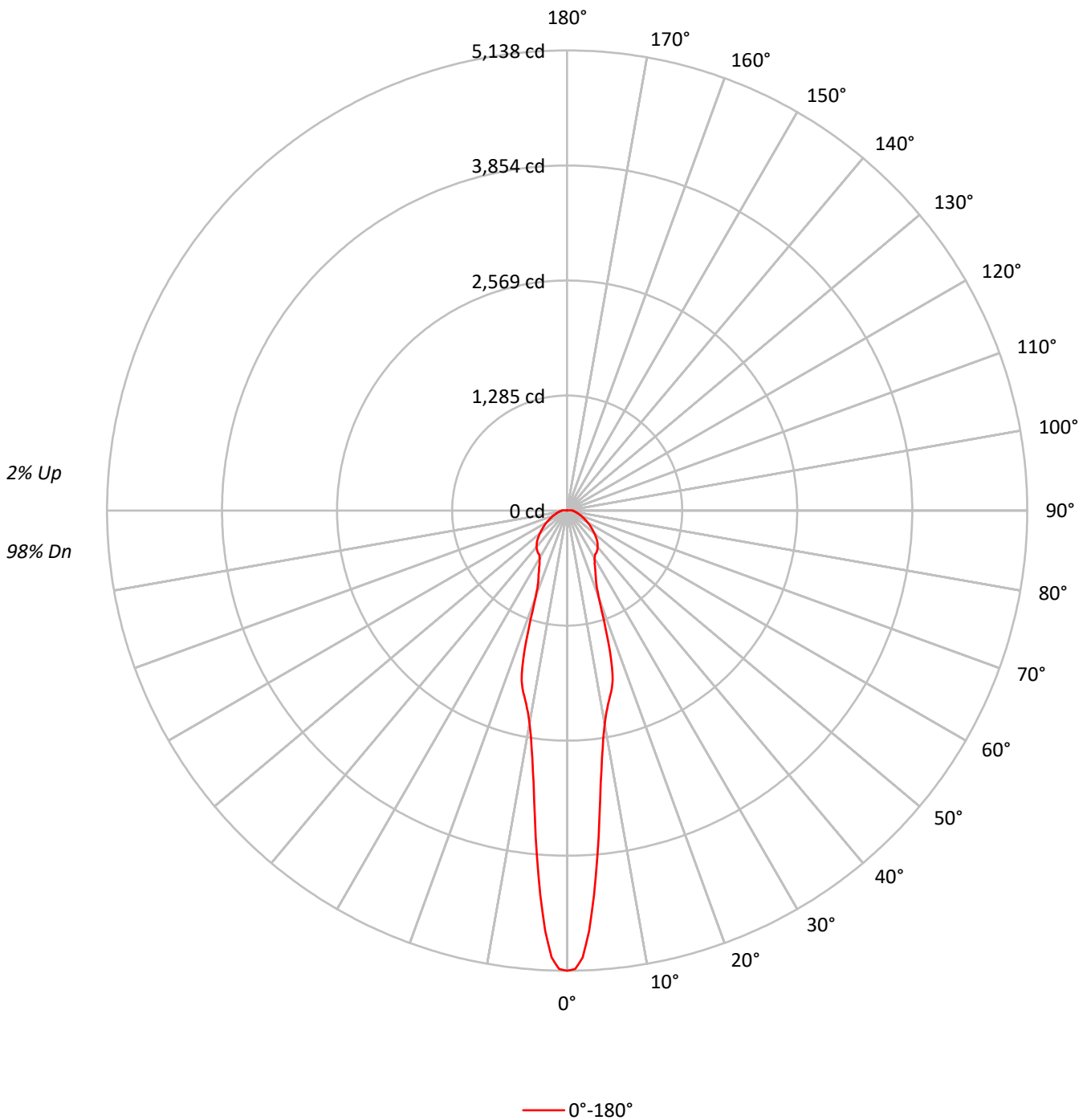
Lumens per Lamp: N/A
Luminaire Lumens: 2659.7 lumens
Efficiency: N/A
Efficacy: 56.6 lumens/watt
Spacing Criteria (0/90/45): 0.3 / 0.3 / 0.45
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 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

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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°	595864
5°	393266
10°	218760
15°	162019
20°	78196
25°	53250
30°	41386
35°	36971
40°	33166
45°	28705
50°	23731
55°	19256
60°	15541
65°	12307
70°	9669
75°	7783
80°	6247
85°	5068

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 28705 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.4	11.9
10°-20°	500.8	18.8
20°-30°	348.0	13.1
30°-40°	356.7	13.4
40°-50°	361.5	13.6
50°-60°	293.2	11.0
60°-70°	207.1	7.8
70°-80°	135.3	5.1
80°-90°	85.1	3.2
90°-100°	45.8	1.7
100°-110°	8.7	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°	1166.3	43.8
0°-40°	1523.0	57.3
0°-60°	2177.7	81.9
0°-90°	2605.2	98.0
90°-120°	54.5	2.0
90°-150°	54.5	2.0
90°-180°	54.0	2.0
0°-180°	2659.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5138	
5°	3880	317
15°	1963	501
25°	746	348
35°	572	357
45°	472	362
55°	326	293
65°	208	207
75°	127	135
85°	78	68
90°	59	33
95°	44	30
105°	6	9
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°	5137.5
1°	5118.9
2°	4991.5
3°	4699.6
4°	4305.1
5°	3879.5
6°	3450.9
7°	3065.7
8°	2789.3
9°	2571.9
10°	2413.5
11°	2298.5
12°	2205.3
13°	2127.7
14°	2053.1
15°	1963.1
16°	1820.2
17°	1624.5
18°	1400.9
19°	1186.5
20°	1025.0
21°	925.6
22°	860.4
23°	820.0
24°	782.7
25°	745.5
27.5°	664.7
30°	611.9
32.5°	580.8
35°	571.5
37.5°	552.9
40°	531.1
42.5°	503.2
45°	472.1
47.5°	434.9
50°	397.6
52.5°	360.3
55°	326.1
57.5°	295.1
60°	264.0
62.5°	233.0
65°	208.1
67.5°	183.3
70°	161.5
72.5°	142.9

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CANDELA DISTRIBUTION (continued):

	0°
75°	127.4
77.5°	111.8
80°	99.4
82.5°	87.0
85°	77.7
87.5°	68.3
90°	59.0
92.5°	52.8
95°	43.5
97.5°	31.1
100°	21.7
102.5°	12.4
105°	6.2
107.5°	3.1
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)