

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: P701918

Luminaire Tested: 340-4C-15-D010 / 340-EU4C-1020-9024-4LBW1LI-FF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701918
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-2)
Test Lab: INNOVATION CENTER
Issue Date: 8/30/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 340-4C-15-D010 / 340-EU4C-1020-9024-4LBW1LI-FF
Description: FARALLON 4" LED GLASS DOWNLIGHT. FLARED FROSTED GLASS KIT.
Light Source: 2400K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

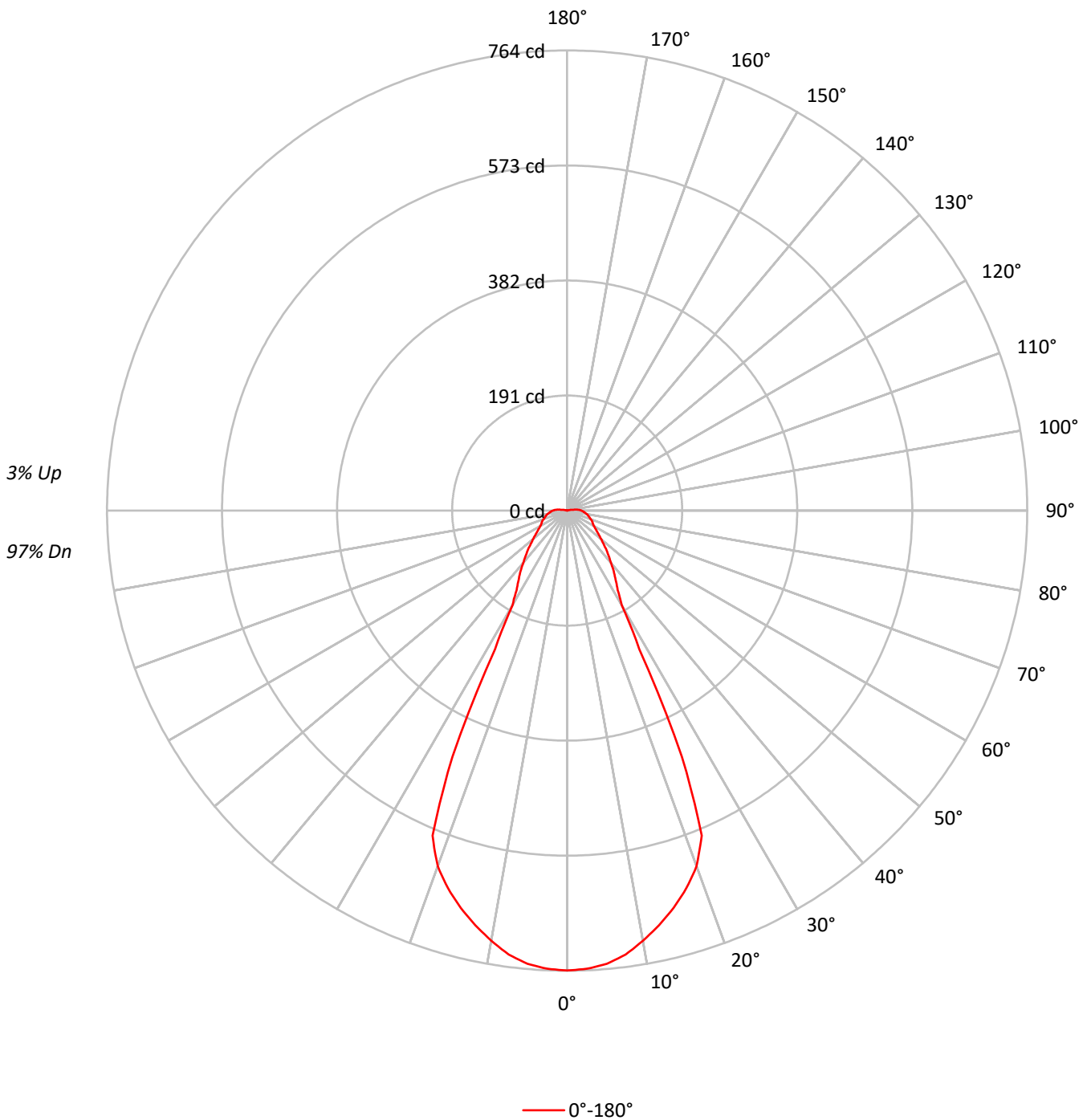
Lumens per Lamp: N/A
Luminaire Lumens: 804.0 lumens
Efficiency: N/A
Efficacy: 50.9 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.73
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 15.8
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	50	30	10	0	
RCR																						
0	118	118	118	118	115	115	115	115	110	110	110	104	104	104	100	100	100	97				
1	109	105	102	98	107	103	99	96	98	95	93	94	92	90	90	88	86	84				
2	102	95	89	85	99	93	88	83	89	85	81	86	82	79	82	80	77	75				
3	95	87	80	75	93	85	79	74	82	77	72	79	75	71	76	73	69	67				
4	89	80	73	67	87	78	72	67	76	70	65	73	68	64	71	67	63	61				
5	84	74	66	61	82	73	66	61	70	64	60	68	63	59	66	62	58	56				
6	79	69	61	56	78	68	61	56	66	60	55	64	59	55	62	58	54	52				
7	75	64	57	52	73	63	56	52	62	56	51	60	55	51	59	54	50	49				
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	55	51	47	45				
9	68	57	50	45	66	56	50	45	55	49	45	54	48	44	53	48	44	43				
10	64	53	47	43	63	53	47	42	52	46	42	51	46	42	50	45	42	40				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	88553
5°	76575
10°	65732
15°	56353
20°	47940
25°	32200
30°	12276
35°	9070
40°	7057
45°	5582
50°	4393
55°	3572
60°	3026
65°	2744
70°	2479
75°	2279
80°	2093
85°	1839

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5582 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.1	8.8
10°-20°	191.5	23.8
20°-30°	189.5	23.6
30°-40°	88.9	11.1
40°-50°	71.0	8.8
50°-60°	54.8	6.8
60°-70°	46.0	5.7
70°-80°	39.4	4.9
80°-90°	30.8	3.8
90°-100°	17.8	2.2
100°-110°	3.2	0.4
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°	452.1	56.2
0°-40°	541.0	67.3
0°-60°	666.7	82.9
0°-90°	783.0	97.4
90°-120°	21.0	2.6
90°-150°	21.0	2.6
90°-180°	21.0	2.6
0°-180°	804.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	764	
5°	755	71
15°	683	192
25°	451	189
35°	140	89
45°	92	71
55°	60	55
65°	46	46
75°	37	39
85°	28	24
90°	23	13
95°	17	12
105°	2	3
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°	763.5
2.5°	761.5
5°	755.4
7.5°	743.3
10°	725.2
12.5°	705.0
15°	682.8
17.5°	657.6
20°	628.4
22.5°	584.0
25°	450.8
27.5°	259.2
30°	181.5
32.5°	156.3
35°	140.2
37.5°	127.1
40°	113.0
42.5°	101.9
45°	91.8
47.5°	81.7
50°	73.6
52.5°	66.6
55°	60.5
57.5°	55.5
60°	51.4
62.5°	48.4
65°	46.4
67.5°	44.4
70°	41.4
72.5°	39.3
75°	37.3
77.5°	35.3
80°	33.3
82.5°	30.3
85°	28.2
87.5°	26.2
90°	23.2
92.5°	21.2
95°	17.1
97.5°	11.1
100°	8.1
102.5°	5.0
105°	2.0
107.5°	1.0
110°	0.0

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CANDELA DISTRIBUTION (continued):

	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)