

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: P701932

Luminaire Tested: 340-4C-15-D010 / 340-EU4C-1020-9030-4LBW1LI-FF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701932
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-1020-9030-4LBW1LI-FF
Description: FARALLON 4" LED GLASS DOWNLIGHT. FLARED FROSTED GLASS KIT.
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

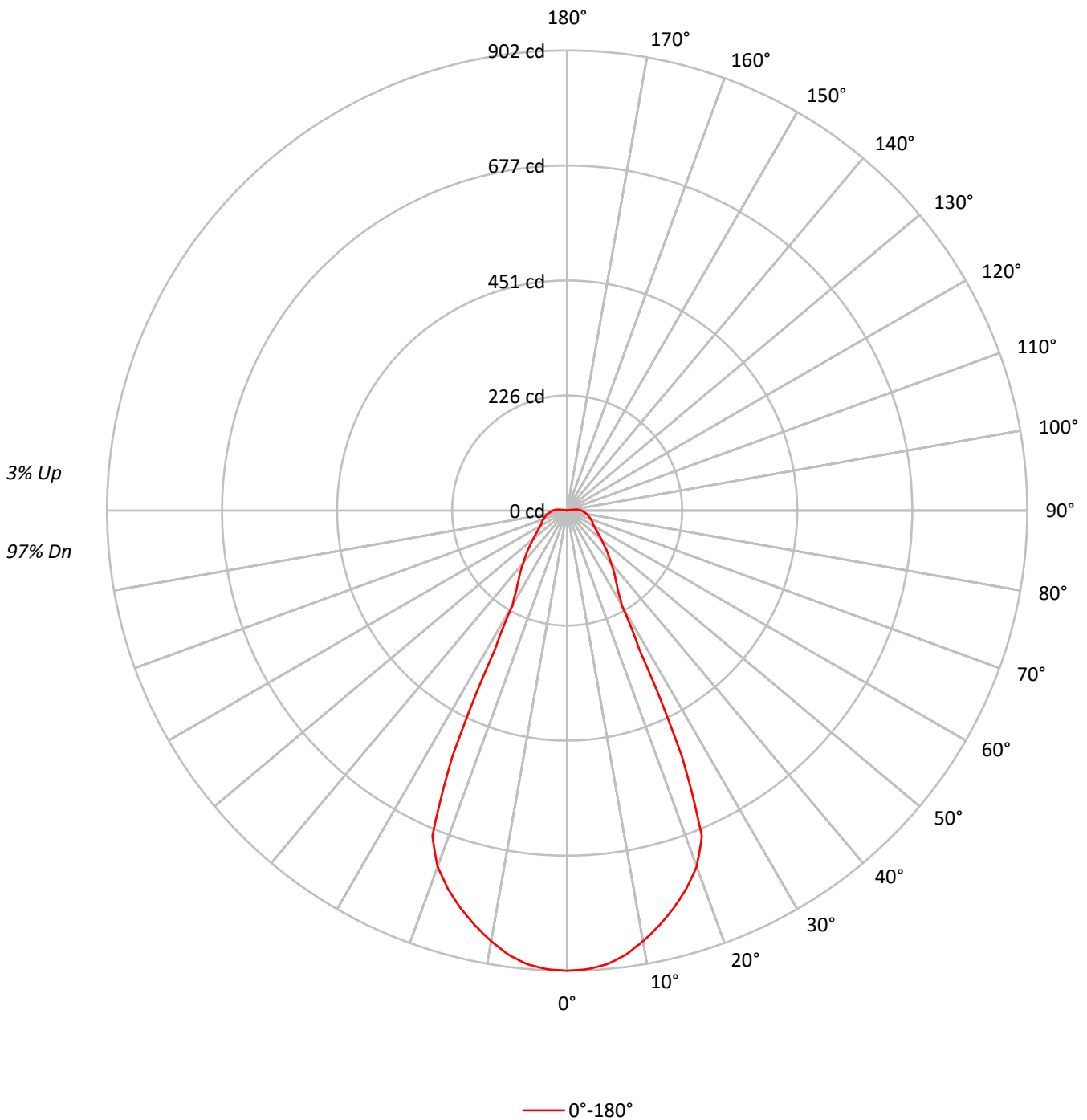
Lumens per Lamp: N/A
Luminaire Lumens: 950.1 lumens
Efficiency: N/A
Efficacy: 60.1 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.73
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

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	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°	104640
5°	90493
10°	77669
15°	66595
20°	56644
25°	38057
30°	14508
35°	10719
40°	8337
45°	6597
50°	5193
55°	4222
60°	3579
65°	3241
70°	2928
75°	2694
80°	2470
85°	2178

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6597 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.1	8.8
10°-20°	226.3	23.8
20°-30°	223.9	23.6
30°-40°	105.0	11.1
40°-50°	83.8	8.8
50°-60°	64.8	6.8
60°-70°	54.3	5.7
70°-80°	46.6	4.9
80°-90°	36.4	3.8
90°-100°	21.0	2.2
100°-110°	3.8	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°	534.3	56.2
0°-40°	639.3	67.3
0°-60°	787.9	82.9
0°-90°	925.3	97.4
90°-120°	24.8	2.6
90°-150°	24.8	2.6
90°-180°	25.0	2.6
0°-180°	950.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	902	
5°	893	84
15°	807	226
25°	533	224
35°	166	105
45°	108	84
55°	72	65
65°	55	54
75°	44	47
85°	33	28
90°	27	15
95°	20	14
105°	2	4
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°	902.2
2.5°	899.9
5°	892.7
7.5°	878.4
10°	856.9
12.5°	833.1
15°	806.9
17.5°	777.1
20°	742.5
22.5°	690.1
25°	532.8
27.5°	306.3
30°	214.5
32.5°	184.7
35°	165.7
37.5°	150.2
40°	133.5
42.5°	120.4
45°	108.5
47.5°	96.5
50°	87.0
52.5°	78.7
55°	71.5
57.5°	65.6
60°	60.8
62.5°	57.2
65°	54.8
67.5°	52.4
70°	48.9
72.5°	46.5
75°	44.1
77.5°	41.7
80°	39.3
82.5°	35.8
85°	33.4
87.5°	31.0
90°	27.4
92.5°	25.0
95°	20.3
97.5°	13.1
100°	9.5
102.5°	6.0
105°	2.4
107.5°	1.2
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)