

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: P701974

Luminaire Tested: 340-4C-20-D010 / 340-EU4C-1020-9024-4LBW1LI-FF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701974
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-20-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

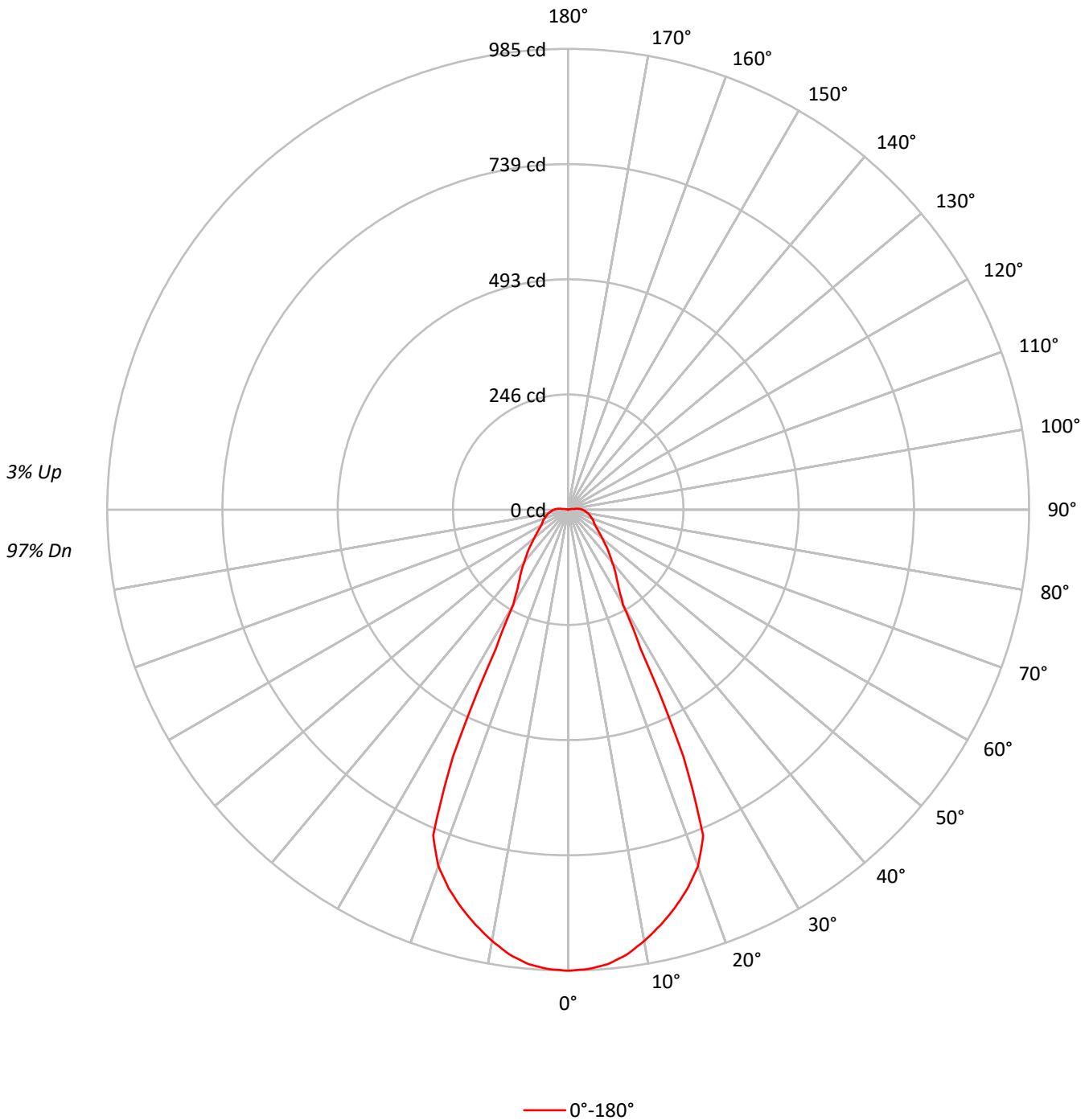
Lumens per Lamp: N/A
Luminaire Lumens: 1037.5 lumens
Efficiency: N/A
Efficacy: 47.6 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.73
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 21.8
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°	114278
5°	98816
10°	84821
15°	72719
20°	61855
25°	41557
30°	15847
35°	11703
40°	9105
45°	7199
50°	5670
55°	4612
60°	3909
65°	3542
70°	3197
75°	2944
80°	2702
85°	2374

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7199 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.8	8.8
10°-20°	247.2	23.8
20°-30°	244.5	23.6
30°-40°	114.7	11.1
40°-50°	91.6	8.8
50°-60°	70.7	6.8
60°-70°	59.4	5.7
70°-80°	51.0	4.9
80°-90°	39.7	3.8
90°-100°	22.9	2.2
100°-110°	4.2	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°	583.4	56.2
0°-40°	698.1	67.3
0°-60°	860.4	82.9
0°-90°	1010.4	97.4
90°-120°	27.1	2.6
90°-150°	27.1	2.6
90°-180°	27.0	2.6
0°-180°	1037.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	985	
5°	975	92
15°	881	247
25°	582	244
35°	181	115
45°	118	92
55°	78	71
65°	60	59
75°	48	51
85°	36	31
90°	30	17
95°	22	15
105°	3	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°	985.3
2.5°	982.7
5°	974.8
7.5°	959.2
10°	935.8
12.5°	909.8
15°	881.1
17.5°	848.6
20°	810.8
22.5°	753.6
25°	581.8
27.5°	334.5
30°	234.3
32.5°	201.7
35°	180.9
37.5°	164.0
40°	145.8
42.5°	131.5
45°	118.4
47.5°	105.4
50°	95.0
52.5°	85.9
55°	78.1
57.5°	71.6
60°	66.4
62.5°	62.5
65°	59.9
67.5°	57.3
70°	53.4
72.5°	50.8
75°	48.2
77.5°	45.6
80°	43.0
82.5°	39.0
85°	36.4
87.5°	33.8
90°	29.9
92.5°	27.3
95°	22.1
97.5°	14.3
100°	10.4
102.5°	6.5
105°	2.6
107.5°	1.3
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)