

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: P702219

Luminaire Tested: 340-4C-40-D010 / 340-EU4C-3040-9035-4LBW1LI-FF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702219
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-40-D010 / 340-EU4C-3040-9035-4LBW1LI-FF
Description: FARALLON 4" LED GLASS DOWNLIGHT. FLARED FROSTED GLASS KIT.
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

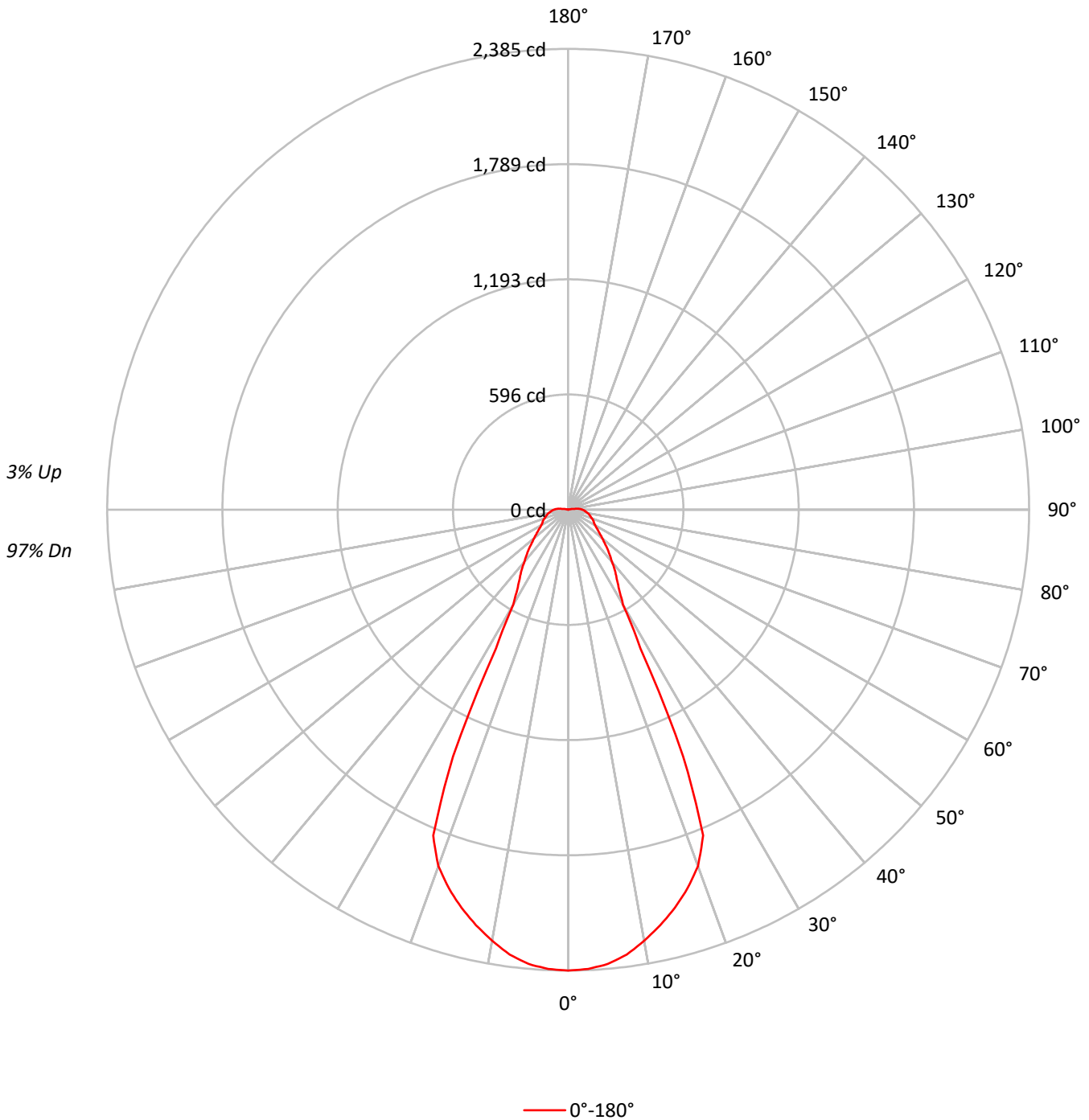
Lumens per Lamp: N/A
Luminaire Lumens: 2511.7 lumens
Efficiency: N/A
Efficacy: 53.4 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.73
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 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	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°	276643
5°	239234
10°	205345
15°	176049
20°	149754
25°	100600
30°	38362
35°	28335
40°	22038
45°	17432
50°	13727
55°	11166
60°	9460
65°	8569
70°	7735
75°	7123
80°	6536
85°	5752

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17432 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.3	8.8
10°-20°	598.3	23.8
20°-30°	591.9	23.6
30°-40°	277.6	11.1
40°-50°	221.6	8.8
50°-60°	171.2	6.8
60°-70°	143.7	5.7
70°-80°	123.3	4.9
80°-90°	96.2	3.8
90°-100°	55.5	2.2
100°-110°	10.1	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°	1412.5	56.2
0°-40°	1690.1	67.3
0°-60°	2082.9	82.9
0°-90°	2446.0	97.4
90°-120°	65.7	2.6
90°-150°	65.7	2.6
90°-180°	66.0	2.6
0°-180°	2511.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2385	
5°	2360	222
15°	2133	598
25°	1408	592
35°	438	278
45°	287	222
55°	189	171
65°	145	144
75°	117	123
85°	88	75
90°	72	40
95°	54	37
105°	6	10
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°	2385.2
2.5°	2378.9
5°	2360.0
7.5°	2322.2
10°	2265.5
12.5°	2202.5
15°	2133.1
17.5°	2054.4
20°	1963.0
22.5°	1824.4
25°	1408.4
27.5°	809.8
30°	567.2
32.5°	488.4
35°	438.0
37.5°	397.0
40°	352.9
42.5°	318.2
45°	286.7
47.5°	255.2
50°	230.0
52.5°	208.0
55°	189.1
57.5°	173.3
60°	160.7
62.5°	151.2
65°	144.9
67.5°	138.6
70°	129.2
72.5°	122.9
75°	116.6
77.5°	110.3
80°	104.0
82.5°	94.5
85°	88.2
87.5°	81.9
90°	72.5
92.5°	66.2
95°	53.6
97.5°	34.7
100°	25.2
102.5°	15.8
105°	6.3
107.5°	3.2
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)