

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: P702707

Luminaire Tested: 340-6C-40-D010 / 340-EU4C-3040-9027-4LBW1LI-CF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702707
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-12)
Test Lab: INNOVATION CENTER
Issue Date: 8/30/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 340-6C-40-D010 / 340-EU4C-3040-9027-4LBW1LI-CF
Description: FARALLON 6" LED GLASS DOWNLIGHT. CYLINDRICAL FROSTED GLASS KIT.
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

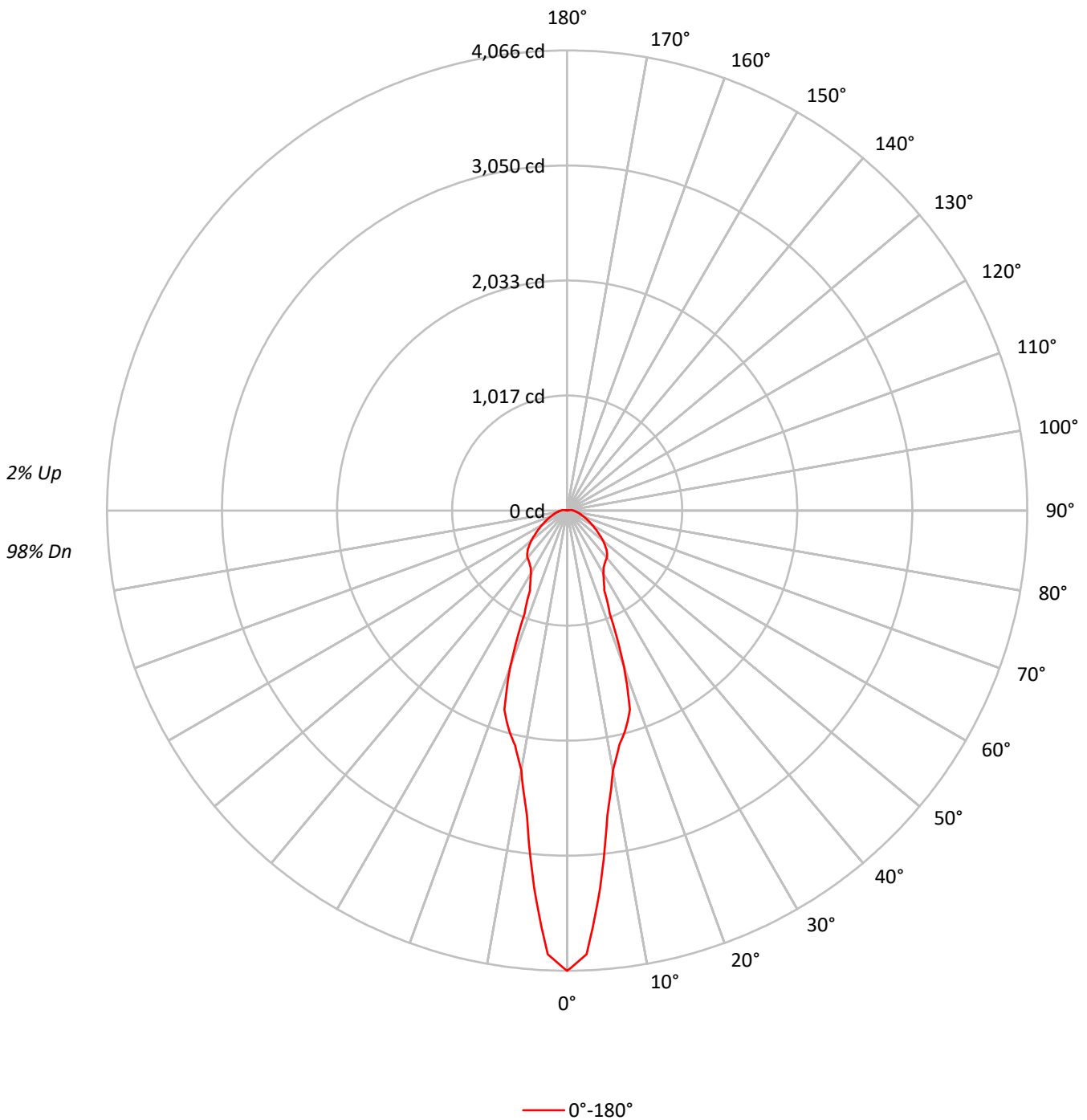
Lumens per Lamp: N/A
Luminaire Lumens: 2733.0 lumens
Efficiency: N/A
Efficacy: 58.1 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.55
Luminous Opening: Vertical Cylinder (Dia: 0.46' x H: 0.49')
CIE Type: Direct

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	107	103	99	96	98	95	93		94	92	90		90	88	87	84
2	101	94	88	83	99	92	87	82	88	84	80		85	81	78		82	79	76	74
3	94	85	78	72	92	83	77	72	80	75	70		77	73	69		75	71	67	65
4	88	77	70	64	85	76	69	64	73	67	63		71	66	62		69	64	61	59
5	82	71	63	58	80	70	63	57	68	61	56		66	60	56		64	59	55	53
6	77	66	58	52	75	65	57	52	63	56	52		61	55	51		59	54	50	49
7	73	61	53	48	71	60	53	48	58	52	47		57	51	47		55	50	47	45
8	69	57	50	44	67	56	49	44	55	48	44		53	48	44		52	47	43	42
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	38		48	42	38		47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	265294
5°	195746
10°	124472
15°	98930
20°	68219
25°	34297
30°	27003
35°	23534
40°	21689
45°	19226
50°	15990
55°	12672
60°	10051
65°	7950
70°	6222
75°	4970
80°	4079
85°	3280

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 19226 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.7	10.4
10°-20°	546.8	20.0
20°-30°	397.1	14.5
30°-40°	364.3	13.3
40°-50°	375.8	13.7
50°-60°	295.2	10.8
60°-70°	200.8	7.3
70°-80°	128.6	4.7
80°-90°	79.5	2.9
90°-100°	46.0	1.7
100°-110°	13.8	0.5
110°-120°	0.4	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°	1228.6	45.0
0°-40°	1592.9	58.3
0°-60°	2263.8	82.8
0°-90°	2672.7	97.8
90°-120°	60.3	2.2
90°-150°	60.3	2.2
90°-180°	60.0	2.2
0°-180°	2733.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4066	
5°	3345	285
15°	1998	547
25°	779	397
35°	577	364
45°	492	376
55°	328	295
65°	202	201
75°	120	129
85°	72	64
90°	54	30
95°	44	32
105°	13	14
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°	4066.4
2.5°	3924.6
5°	3344.6
7.5°	2717.3
10°	2329.5
12.5°	2124.6
15°	1998.5
17.5°	1844.1
20°	1469.0
22.5°	983.5
25°	778.6
27.5°	699.8
30°	639.9
32.5°	598.9
35°	576.9
37.5°	558.0
40°	545.3
42.5°	523.3
45°	491.8
47.5°	453.9
50°	412.9
52.5°	368.8
55°	327.8
57.5°	290.0
60°	258.5
62.5°	227.0
65°	201.7
67.5°	176.5
70°	154.5
72.5°	135.5
75°	119.8
77.5°	107.2
80°	94.6
82.5°	82.0
85°	72.5
87.5°	63.0
90°	53.6
92.5°	50.4
95°	44.1
97.5°	34.7
100°	25.2
102.5°	18.9
105°	12.6
107.5°	6.3
110°	3.2

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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)