

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: P702365

Luminaire Tested: 340-6C-10-D010 / 340-EU4C-1020-9024-4LBW1LI-CQ

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702365
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-13)
Test Lab: INNOVATION CENTER
Issue Date: 8/30/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 340-6C-10-D010 / 340-EU4C-1020-9024-4LBW1LI-CQ
Description: FARALLON 6" LED GLASS DOWNLIGHT CYLINDRICAL FROSTED, QUADRATE ETCHED GLASS KIT.
Light Source: 2400K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

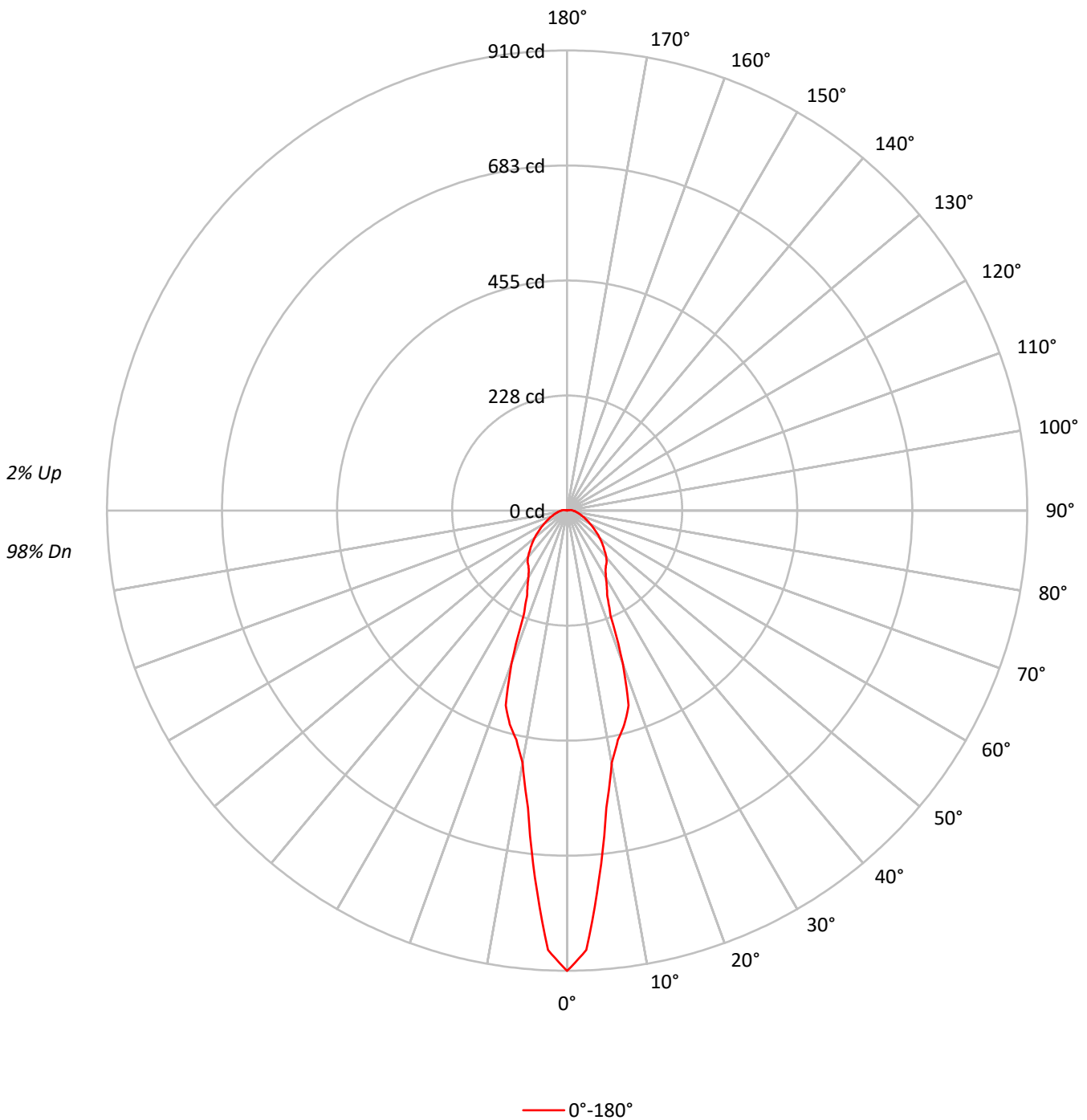
Lumens per Lamp: N/A
Luminaire Lumens: 595.2 lumens
Efficiency: N/A
Efficacy: 60.7 lumens/watt
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.54
Luminous Opening: Vertical Cylinder (Dia: 0.46' x H: 0.49')
CIE Type: Direct

Input Watts (W): 9.8
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	119	119	119	119	116	116	116	116	110	110	110		105	105	105		100	100	100	98
1	110	105	102	98	107	103	100	97	98	96	93		94	92	90		90	89	87	85
2	102	95	89	84	99	93	87	83	89	84	81		85	82	78		82	79	76	74
3	95	86	79	73	92	84	78	72	81	75	71		78	73	70		75	71	68	66
4	88	78	71	65	86	77	70	64	74	68	63		72	67	62		69	65	61	59
5	83	72	64	58	81	71	63	58	68	62	57		66	61	57		64	60	56	54
6	78	66	59	53	76	65	58	53	63	57	52		62	56	52		60	55	51	49
7	73	62	54	49	71	61	54	49	59	53	48		58	52	48		56	51	47	46
8	69	58	50	45	68	57	50	45	55	49	45		54	48	44		53	48	44	42
9	66	54	47	42	64	53	47	42	52	46	42		51	45	41		50	45	41	40
10	62	51	44	40	61	50	44	39	49	43	39		48	43	39		47	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	59389
5°	42660
10°	27064
15°	21672
20°	14907
25°	8264
30°	6482
35°	5442
40°	4781
45°	3964
50°	3257
55°	2578
60°	2053
65°	1616
70°	1289
75°	1037
80°	841
85°	692

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3964 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.3	10.5
10°-20°	119.5	20.1
20°-30°	92.8	15.6
30°-40°	84.4	14.2
40°-50°	78.3	13.2
50°-60°	60.3	10.1
60°-70°	41.3	6.9
70°-80°	26.8	4.5
80°-90°	16.7	2.8
90°-100°	9.6	1.6
100°-110°	3.1	0.5
110°-120°	0.1	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°	274.6	46.1
0°-40°	359.1	60.3
0°-60°	497.6	83.6
0°-90°	582.4	97.8
90°-120°	12.8	2.2
90°-150°	12.8	2.2
90°-180°	13.0	2.2
0°-180°	595.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	910	
5°	729	62
15°	438	120
25°	188	93
35°	133	84
45°	101	78
55°	67	60
65°	41	41
75°	25	27
85°	15	13
90°	11	6
95°	9	7
105°	3	3
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°	910.3
2.5°	869.9
5°	728.9
7.5°	592.7
10°	506.5
12.5°	464.2
15°	437.8
17.5°	403.7
20°	321.0
22.5°	224.4
25°	187.6
27.5°	169.5
30°	153.6
32.5°	141.1
35°	133.4
37.5°	128.5
40°	120.2
42.5°	110.5
45°	101.4
47.5°	92.4
50°	84.1
52.5°	75.0
55°	66.7
57.5°	59.8
60°	52.8
62.5°	46.6
65°	41.0
67.5°	36.8
70°	32.0
72.5°	28.5
75°	25.0
77.5°	22.2
80°	19.5
82.5°	17.4
85°	15.3
87.5°	13.2
90°	11.1
92.5°	10.4
95°	9.0
97.5°	7.6
100°	5.6
102.5°	4.2
105°	2.8
107.5°	1.4
110°	0.7

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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)