

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: P702561

Luminaire Tested: 340-6C-25-D010 / 340-EU4C-3040-9040-4LBW1LI-CQ

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702561
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-25-D010 / 340-EU4C-3040-9040-4LBW1LI-CQ
Description: FARALLON 6" LED GLASS DOWNLIGHT CYLINDRICAL FROSTED, QUADRATE ETCHED GLASS KIT.
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

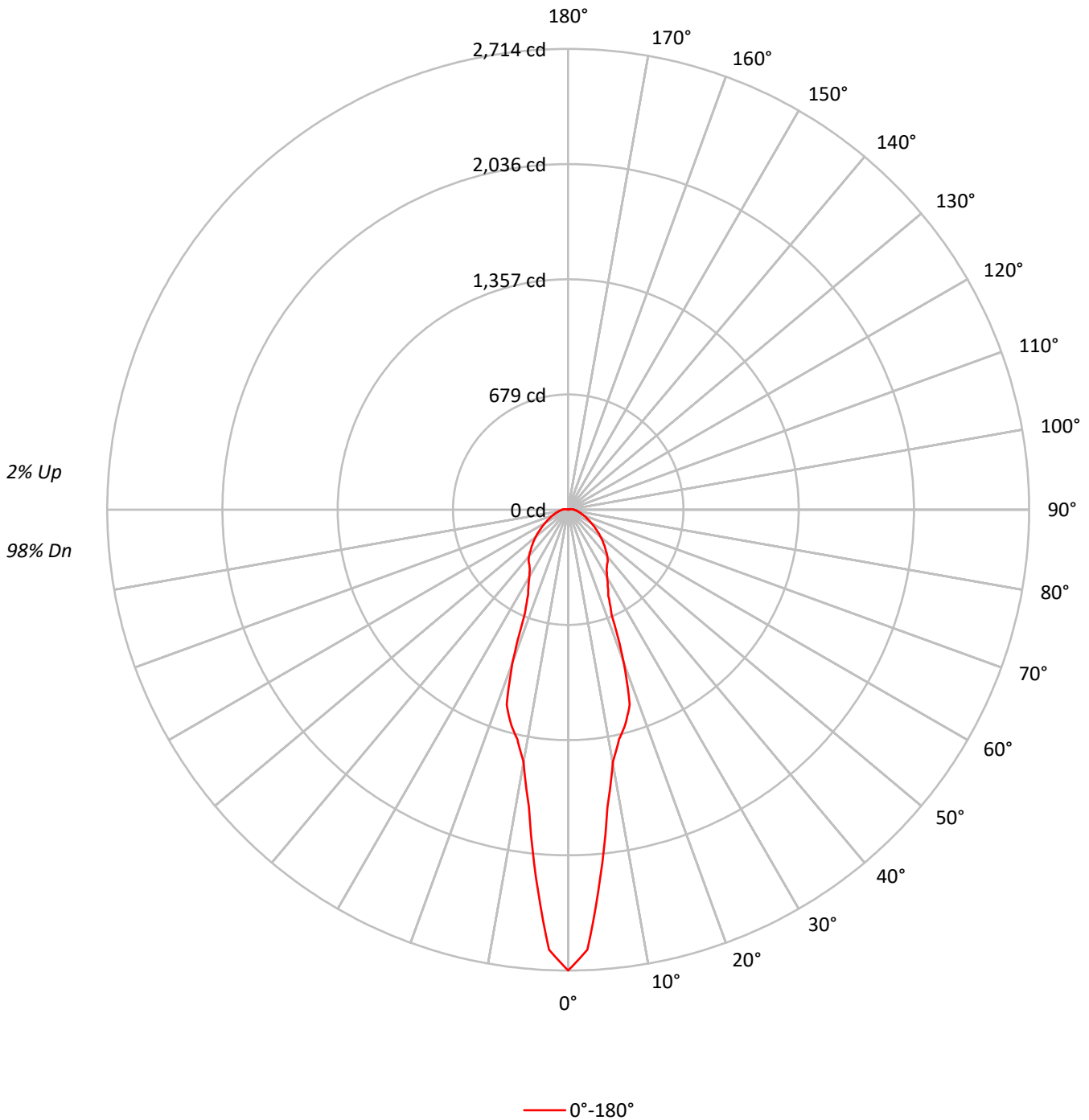
Lumens per Lamp: N/A
Luminaire Lumens: 1774.4 lumens
Efficiency: N/A
Efficacy: 56.3 lumens/watt
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.54
Luminous Opening: Vertical Cylinder (Dia: 0.46' x H: 0.49')
CIE Type: Direct

Input Watts (W): 31.5
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°	177050
5°	127183
10°	80695
15°	64605
20°	44447
25°	24637
30°	19318
35°	16224
40°	14255
45°	11822
50°	9709
55°	7689
60°	6120
65°	4816
70°	3838
75°	3095
80°	2501
85°	2063

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11822 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.7	10.5
10°-20°	356.4	20.1
20°-30°	276.7	15.6
30°-40°	251.7	14.2
40°-50°	233.5	13.2
50°-60°	179.7	10.1
60°-70°	123.0	6.9
70°-80°	79.8	4.5
80°-90°	49.7	2.8
90°-100°	28.8	1.6
100°-110°	9.1	0.5
110°-120°	0.3	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°	818.8	46.1
0°-40°	1070.5	60.3
0°-60°	1483.7	83.6
0°-90°	1736.2	97.8
90°-120°	38.2	2.2
90°-150°	38.2	2.2
90°-180°	38.0	2.1
0°-180°	1774.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2714	
5°	2173	186
15°	1305	356
25°	559	277
35°	398	252
45°	302	233
55°	199	180
65°	122	123
75°	75	80
85°	46	40
90°	33	19
95°	27	20
105°	8	9
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°	2713.8
2.5°	2593.6
5°	2173.1
7.5°	1767.0
10°	1510.2
12.5°	1383.8
15°	1305.1
17.5°	1203.6
20°	957.1
22.5°	669.1
25°	559.3
27.5°	505.5
30°	457.8
32.5°	420.5
35°	397.7
37.5°	383.2
40°	358.4
42.5°	329.4
45°	302.4
47.5°	275.5
50°	250.7
52.5°	223.7
55°	198.9
57.5°	178.2
60°	157.4
62.5°	138.8
65°	122.2
67.5°	109.8
70°	95.3
72.5°	84.9
75°	74.6
77.5°	66.3
80°	58.0
82.5°	51.8
85°	45.6
87.5°	39.4
90°	33.1
92.5°	31.1
95°	26.9
97.5°	22.8
100°	16.6
102.5°	12.4
105°	8.3
107.5°	4.1
110°	2.1

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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)