

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: P702022

Luminaire Tested: 340-4C-20-D010 / 340-EU4C-1020-9730-4LBW1LI-CQ

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702022
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-5)
Test Lab: INNOVATION CENTER
Issue Date: 8/30/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 340-4C-20-D010 / 340-EU4C-1020-9730-4LBW1LI-CQ
Description: FARALLON 4" LED GLASS DOWNLIGHT CYLINDRICAL FROSTED, QUADRATE ETCHED GLASS KIT.
Light Source: 3000K CCT, 97 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

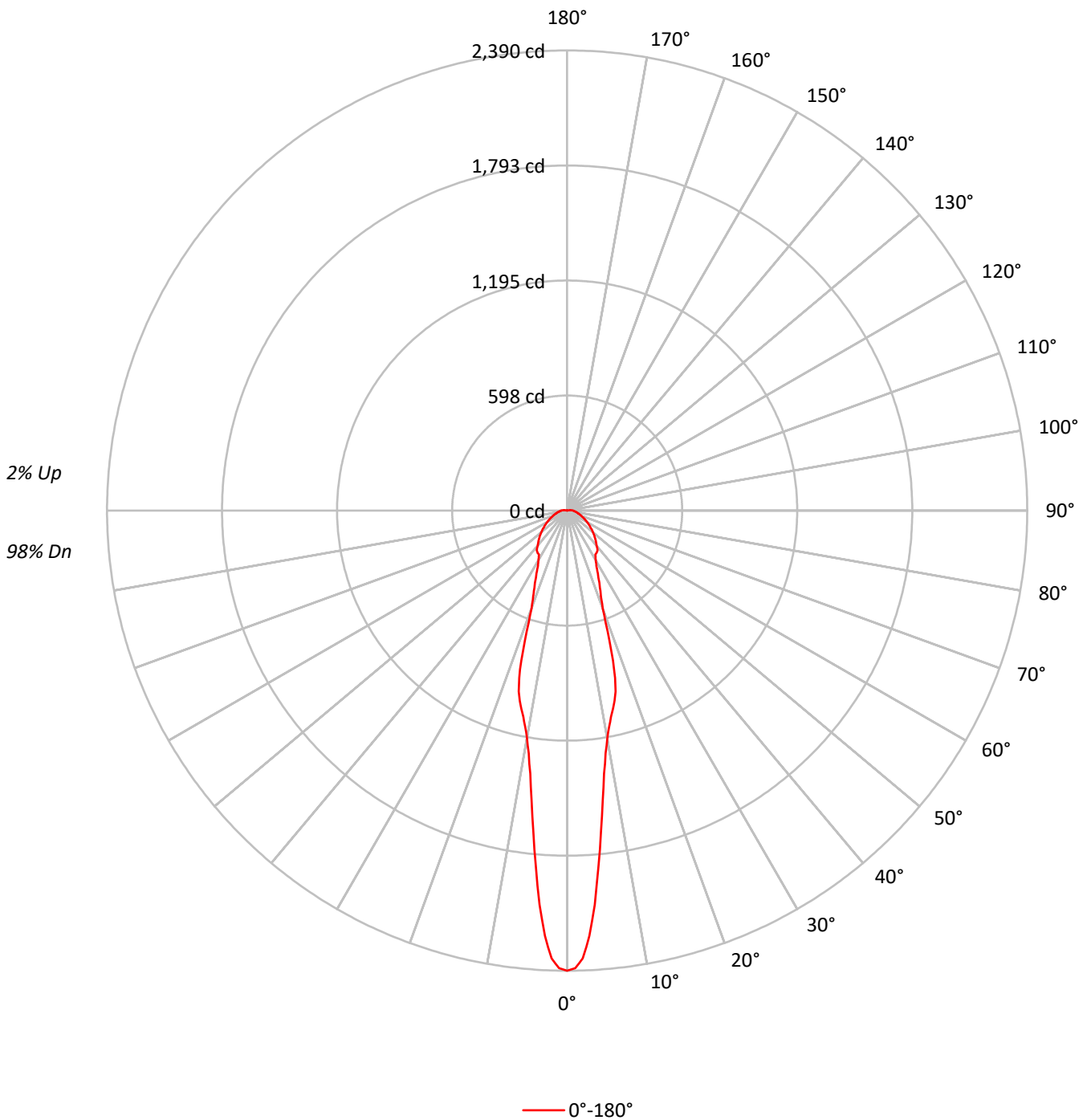
Lumens per Lamp: N/A
Luminaire Lumens: 1273.6 lumens
Efficiency: N/A
Efficacy: 58.4 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.33 / 0.46
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

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	119	119	119	119	116	116	116	116	110	110	110		105	105	105		100	100	100	98
1	109	105	101	98	106	103	99	96	98	95	92		94	91	89		90	88	86	84
2	101	94	88	83	99	92	87	82	88	84	80		85	81	78		81	78	76	74
3	94	85	78	72	92	83	77	72	80	75	70		77	73	69		75	71	67	65
4	88	78	70	64	86	76	69	64	74	68	63		71	66	62		69	64	61	59
5	82	71	64	58	80	70	63	58	68	62	57		66	60	56		64	59	55	53
6	77	66	58	53	76	65	58	53	63	57	52		61	56	52		60	55	51	49
7	73	62	54	49	71	61	54	49	59	53	48		58	52	48		56	51	47	45
8	69	58	50	45	68	57	50	45	55	49	45		54	49	44		53	48	44	42
9	66	54	47	42	64	54	47	42	52	46	42		51	46	42		50	45	41	40
10	63	51	44	40	61	51	44	40	50	44	39		49	43	39		48	43	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	277188
5°	188640
10°	108732
15°	80221
20°	41295
25°	27464
30°	20074
35°	17311
40°	14888
45°	12531
50°	10463
55°	8627
60°	7064
65°	5731
70°	4604
75°	3757
80°	3092
85°	2504

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12531 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.1	12.1
10°-20°	250.9	19.7
20°-30°	179.5	14.1
30°-40°	167.1	13.1
40°-50°	159.1	12.5
50°-60°	130.9	10.3
60°-70°	96.3	7.6
70°-80°	65.8	5.2
80°-90°	42.3	3.3
90°-100°	23.3	1.8
100°-110°	4.3	0.3
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°	584.5	45.9
0°-40°	751.5	59.0
0°-60°	1041.6	81.8
0°-90°	1246.0	97.8
90°-120°	27.6	2.2
90°-150°	27.6	2.2
90°-180°	28.0	2.2
0°-180°	1273.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2390	
5°	1861	154
15°	972	251
25°	384	179
35°	268	167
45°	206	159
55°	146	131
65°	97	96
75°	62	66
85°	38	33
90°	31	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°	2389.9
1°	2377.6
2°	2326.9
3°	2211.5
4°	2051.6
5°	1860.9
6°	1679.4
7°	1516.4
8°	1379.5
9°	1276.5
10°	1199.6
11°	1142.7
12°	1095.0
13°	1056.5
14°	1018.1
15°	972.0
16°	904.3
17°	815.1
18°	710.5
19°	613.6
20°	541.3
21°	496.7
22°	464.5
23°	436.8
24°	410.6
25°	384.5
27.5°	330.7
30°	296.8
32.5°	272.2
35°	267.6
37.5°	259.9
40°	238.4
42.5°	221.5
45°	206.1
47.5°	190.7
50°	175.3
52.5°	159.9
55°	146.1
57.5°	132.3
60°	120.0
62.5°	107.7
65°	96.9
67.5°	86.1
70°	76.9
72.5°	69.2

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CANDELA DISTRIBUTION (continued):

	0°
75°	61.5
77.5°	55.4
80°	49.2
82.5°	43.1
85°	38.4
87.5°	33.8
90°	30.8
92.5°	27.7
95°	21.5
97.5°	15.4
100°	10.8
102.5°	6.2
105°	3.1
107.5°	1.5
110°	0.0
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)