

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: P701931

Luminaire Tested: 340-4C-15-D010 / 340-EU4C-1020-9030-4LBW1LI-CQ

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701931
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-15-D010 / 340-EU4C-1020-9030-4LBW1LI-CQ
Description: FARALLON 4" LED GLASS DOWNLIGHT CYLINDRICAL FROSTED, QUADRATE ETCHED GLASS KIT.
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

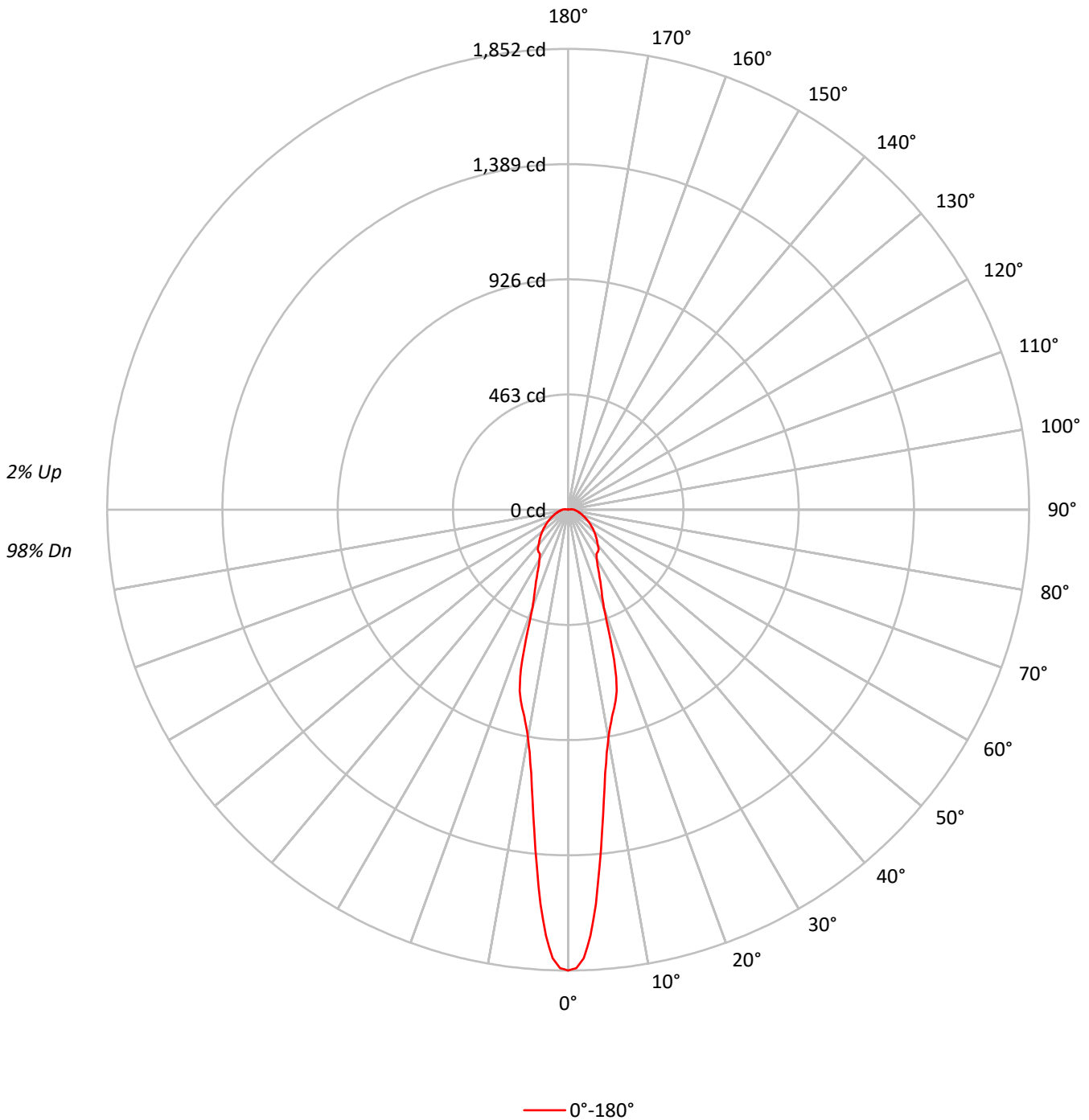
Lumens per Lamp: N/A
Luminaire Lumens: 987.0 lumens
Efficiency: N/A
Efficacy: 62.5 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.33 / 0.46
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 15.8
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°	214824
5°	146196
10°	84268
15°	62171
20°	32003
25°	21286
30°	15556
35°	13417
40°	11534
45°	9710
50°	8111
55°	6684
60°	5475
65°	4441
70°	3568
75°	2914
80°	2394
85°	1944

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9710 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.4	12.1
10°-20°	194.4	19.7
20°-30°	139.1	14.1
30°-40°	129.5	13.1
40°-50°	123.3	12.5
50°-60°	101.5	10.3
60°-70°	74.6	7.6
70°-80°	51.0	5.2
80°-90°	32.8	3.3
90°-100°	18.1	1.8
100°-110°	3.3	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°	452.9	45.9
0°-40°	582.4	59.0
0°-60°	807.2	81.8
0°-90°	965.6	97.8
90°-120°	21.4	2.2
90°-150°	21.4	2.2
90°-180°	21.0	2.1
0°-180°	987.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1852	
5°	1442	119
15°	753	194
25°	298	139
35°	207	129
45°	160	123
55°	113	101
65°	75	75
75°	48	51
85°	30	26
90°	24	13
95°	17	12
105°	2	3
115°	0	0
125°	0	0
135°	0	0
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1852.2
1°	1842.6
2°	1803.3
3°	1713.9
4°	1589.9
5°	1442.2
6°	1301.5
7°	1175.2
8°	1069.1
9°	989.2
10°	929.7
11°	885.6
12°	848.6
13°	818.8
14°	789.0
15°	753.3
16°	700.8
17°	631.7
18°	550.6
19°	475.6
20°	419.5
21°	385.0
22°	359.9
23°	338.5
24°	318.2
25°	298.0
27.5°	256.2
30°	230.0
32.5°	211.0
35°	207.4
37.5°	201.4
40°	184.7
42.5°	171.6
45°	159.7
47.5°	147.8
50°	135.9
52.5°	124.0
55°	113.2
57.5°	102.5
60°	93.0
62.5°	83.4
65°	75.1
67.5°	66.7
70°	59.6
72.5°	53.6

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CANDELA DISTRIBUTION (continued):

	0°
75°	47.7
77.5°	42.9
80°	38.1
82.5°	33.4
85°	29.8
87.5°	26.2
90°	23.8
92.5°	21.5
95°	16.7
97.5°	11.9
100°	8.3
102.5°	4.8
105°	2.4
107.5°	1.2
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)