

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: P702015

Luminaire Tested: 340-4C-20-D010 / 340-EU4C-1020-9727-4LBW1LI-CQ

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702015
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-1020-9727-4LBW1LI-CQ
Description: FARALLON 4" LED GLASS DOWNLIGHT CYLINDRICAL FROSTED, QUADRATE ETCHED GLASS KIT.
Light Source: 2700K CCT, 97 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

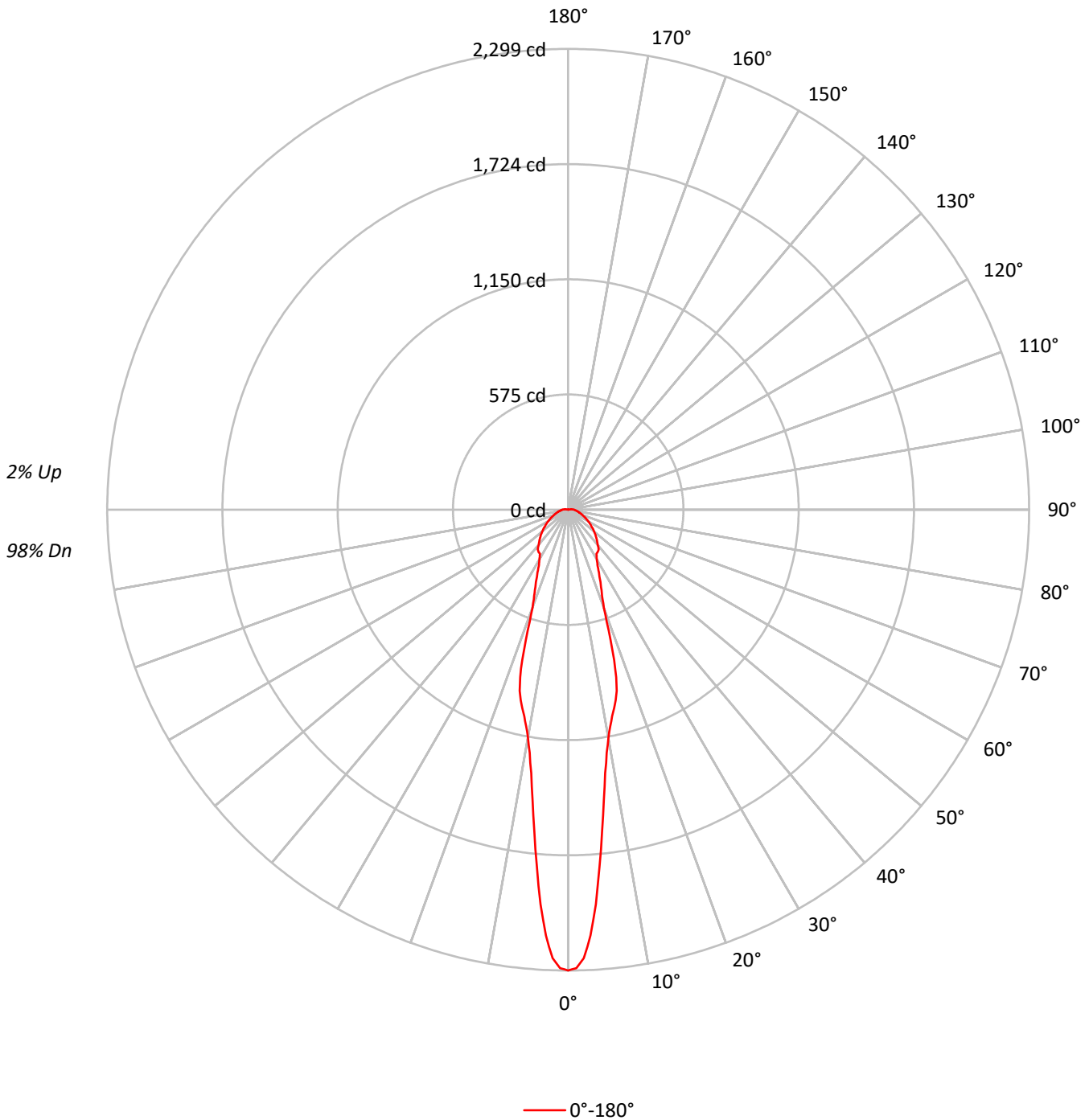
Lumens per Lamp: N/A
Luminaire Lumens: 1225.2 lumens
Efficiency: N/A
Efficacy: 56.2 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.33 / 0.46
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

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°	266645
5°	181463
10°	104599
15°	77167
20°	39731
25°	26421
30°	19310
35°	16651
40°	14319
45°	12051
50°	10069
55°	8296
60°	6793
65°	5512
70°	4430
75°	3616
80°	2973
85°	2413

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12051 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.2	12.1
10°-20°	241.3	19.7
20°-30°	172.7	14.1
30°-40°	160.7	13.1
40°-50°	153.0	12.5
50°-60°	126.0	10.3
60°-70°	92.6	7.6
70°-80°	63.3	5.2
80°-90°	40.7	3.3
90°-100°	22.4	1.8
100°-110°	4.2	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°	562.2	45.9
0°-40°	722.9	59.0
0°-60°	1001.9	81.8
0°-90°	1198.6	97.8
90°-120°	26.6	2.2
90°-150°	26.6	2.2
90°-180°	27.0	2.2
0°-180°	1225.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2299	
5°	1790	148
15°	935	241
25°	370	173
35°	257	161
45°	198	153
55°	140	126
65°	93	93
75°	59	63
85°	37	32
90°	30	16
95°	21	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°	2299.0
1°	2287.2
2°	2238.4
3°	2127.4
4°	1973.6
5°	1790.1
6°	1615.5
7°	1458.7
8°	1327.1
9°	1227.9
10°	1154.0
11°	1099.2
12°	1053.4
13°	1016.4
14°	979.4
15°	935.0
16°	869.9
17°	784.1
18°	683.5
19°	590.3
20°	520.8
21°	477.9
22°	446.8
23°	420.2
24°	395.0
25°	369.9
27.5°	318.1
30°	285.5
32.5°	261.9
35°	257.4
37.5°	250.0
40°	229.3
42.5°	213.0
45°	198.2
47.5°	183.4
50°	168.7
52.5°	153.9
55°	140.5
57.5°	127.2
60°	115.4
62.5°	103.6
65°	93.2
67.5°	82.8
70°	74.0
72.5°	66.6

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CANDELA DISTRIBUTION (continued):

	0°
75°	59.2
77.5°	53.3
80°	47.3
82.5°	41.4
85°	37.0
87.5°	32.5
90°	29.6
92.5°	26.6
95°	20.7
97.5°	14.8
100°	10.4
102.5°	5.9
105°	3.0
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)