

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: P701777

Luminaire Tested: 340-4C-05-D010 / 340-EU4C-1020-9040-4LBW1LI-CQ

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701777
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-05-D010 / 340-EU4C-1020-9040-4LBW1LI-CQ
Description: FARALLON 4" LED GLASS DOWNLIGHT CYLINDRICAL FROSTED, QUADRATE ETCHED GLASS KIT.
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

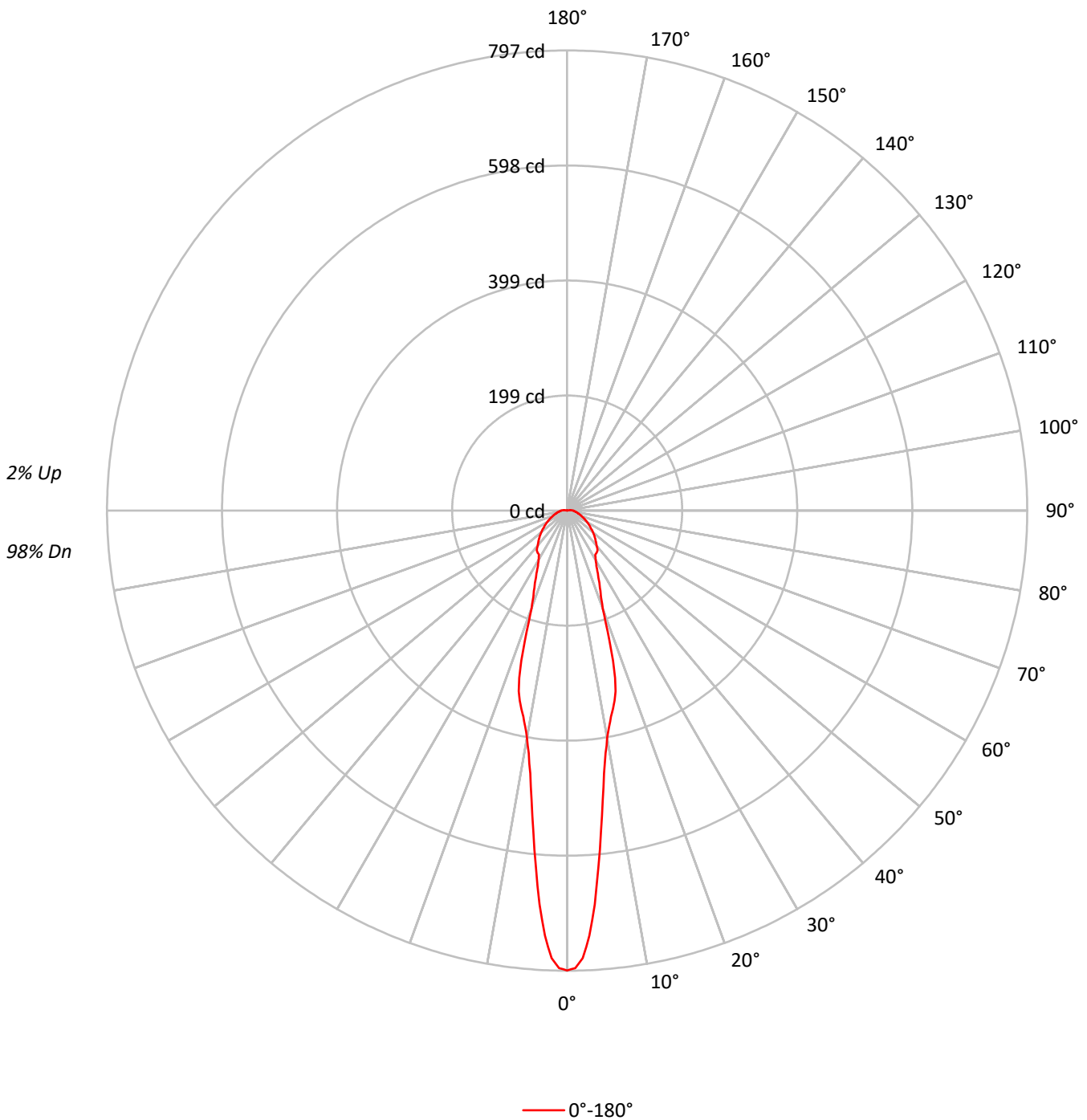
Lumens per Lamp: N/A
Luminaire Lumens: 424.5 lumens
Efficiency: N/A
Efficacy: 59.0 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.33 / 0.46
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 7.2
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°	92392
5°	62880
10°	36238
15°	26740
20°	13762
25°	9157
30°	6689
35°	5770
40°	4965
45°	4177
50°	3486
55°	2876
60°	2355
65°	1910
70°	1533
75°	1252
80°	1031
85°	835

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4177 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.4	12.1
10°-20°	83.6	19.7
20°-30°	59.8	14.1
30°-40°	55.7	13.1
40°-50°	53.0	12.5
50°-60°	43.6	10.3
60°-70°	32.1	7.6
70°-80°	21.9	5.2
80°-90°	14.1	3.3
90°-100°	7.8	1.8
100°-110°	1.4	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°	194.8	45.9
0°-40°	250.5	59.0
0°-60°	347.2	81.8
0°-90°	415.3	97.8
90°-120°	9.2	2.2
90°-150°	9.2	2.2
90°-180°	9.0	2.1
0°-180°	424.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	797	
5°	620	51
15°	324	84
25°	128	60
35°	89	56
45°	69	53
55°	49	44
65°	32	32
75°	20	22
85°	13	11
90°	10	6
95°	7	5
105°	1	1
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°	796.6
1°	792.5
2°	775.6
3°	737.1
4°	683.8
5°	620.3
6°	559.8
7°	505.4
8°	459.8
9°	425.5
10°	399.8
11°	380.9
12°	365.0
13°	352.2
14°	339.3
15°	324.0
16°	301.4
17°	271.7
18°	236.8
19°	204.5
20°	180.4
21°	165.6
22°	154.8
23°	145.6
24°	136.9
25°	128.2
27.5°	110.2
30°	98.9
32.5°	90.7
35°	89.2
37.5°	86.6
40°	79.5
42.5°	73.8
45°	68.7
47.5°	63.6
50°	58.4
52.5°	53.3
55°	48.7
57.5°	44.1
60°	40.0
62.5°	35.9
65°	32.3
67.5°	28.7
70°	25.6
72.5°	23.1

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CANDELA DISTRIBUTION (continued):

	0°
75°	20.5
77.5°	18.5
80°	16.4
82.5°	14.4
85°	12.8
87.5°	11.3
90°	10.3
92.5°	9.2
95°	7.2
97.5°	5.1
100°	3.6
102.5°	2.1
105°	1.0
107.5°	0.5
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)