

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: P701805

Luminaire Tested: 340-4C-08-D010 / 340-EU4C-1020-9024-4LBW1LI-CQ

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701805
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-08-D010 / 340-EU4C-1020-9024-4LBW1LI-CQ
Description: FARALLON 4" LED GLASS DOWNLIGHT CYLINDRICAL FROSTED, QUADRATE ETCHED GLASS KIT.
Light Source: 2400K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

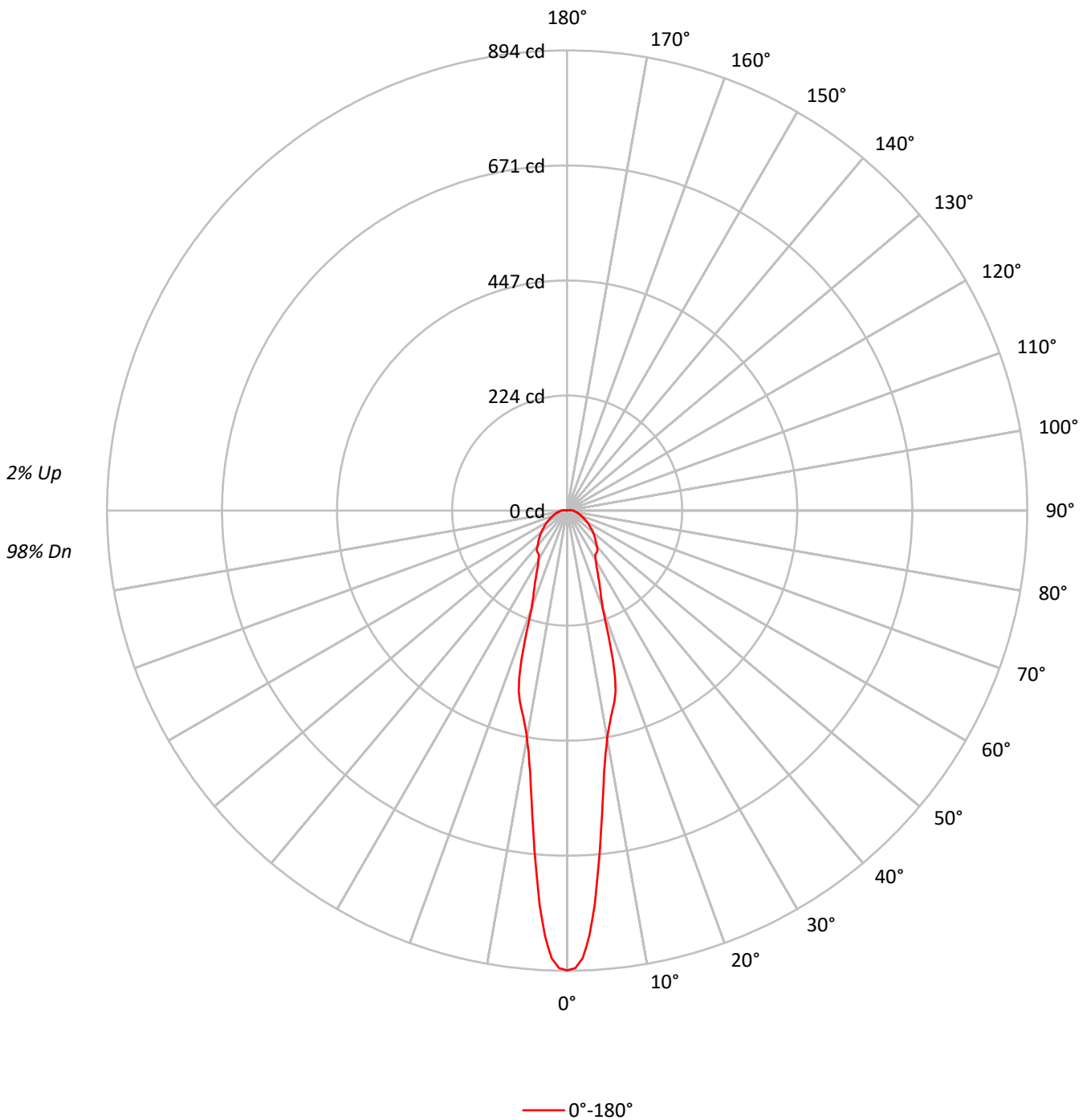
Lumens per Lamp: N/A
Luminaire Lumens: 476.0 lumens
Efficiency: N/A
Efficacy: 48.1 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.33 / 0.46
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 9.9
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

TEST NUMBER: P701805

CATALOG NUMBER: 340-4C-08-D010 / 340-EU4C-1020-9024-4LBW1LI-CQ

Luminous Intensity Polar Plot



TEST NUMBER: P701805

CATALOG NUMBER: 340-4C-08-D010 / 340-EU4C-1020-9024-4LBW1LI-CQ

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°	103631
5°	70523
10°	40652
15°	29992
20°	15441
25°	10264
30°	7507
35°	6469
40°	5564
45°	4682
50°	3909
55°	3224
60°	2637
65°	2141
70°	1718
75°	1405
80°	1156
85°	939

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4682 cd/sqm

TEST NUMBER: P701805

CATALOG NUMBER: 340-4C-08-D010 / 340-EU4C-1020-9024-4LBW1LI-CQ

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.6	12.1
10°-20°	93.8	19.7
20°-30°	67.1	14.1
30°-40°	62.5	13.1
40°-50°	59.5	12.5
50°-60°	48.9	10.3
60°-70°	36.0	7.6
70°-80°	24.6	5.2
80°-90°	15.8	3.3
90°-100°	8.7	1.8
100°-110°	1.6	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°	218.5	45.9
0°-40°	281.0	59.0
0°-60°	389.4	81.8
0°-90°	465.7	97.8
90°-120°	10.3	2.2
90°-150°	10.3	2.2
90°-180°	10.0	2.1
0°-180°	476.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	894	
5°	696	58
15°	363	94
25°	144	67
35°	100	62
45°	77	59
55°	55	49
65°	36	36
75°	23	25
85°	14	13
90°	12	6
95°	8	6
105°	1	2
115°	0	0
125°	0	0
135°	0	0
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	0

TEST NUMBER: P701805

CATALOG NUMBER: 340-4C-08-D010 / 340-EU4C-1020-9024-4LBW1LI-CQ

CANDELA DISTRIBUTION (FULL):

0°	
0°	893.5
1°	888.9
2°	869.9
3°	826.8
4°	767.0
5°	695.7
6°	627.8
7°	566.9
8°	515.7
9°	477.2
10°	448.5
11°	427.2
12°	409.4
13°	395.0
14°	380.6
15°	363.4
16°	338.1
17°	304.7
18°	265.6
19°	229.4
20°	202.4
21°	185.7
22°	173.6
23°	163.3
24°	153.5
25°	143.7
27.5°	123.6
30°	111.0
32.5°	101.8
35°	100.0
37.5°	97.2
40°	89.1
42.5°	82.8
45°	77.0
47.5°	71.3
50°	65.5
52.5°	59.8
55°	54.6
57.5°	49.4
60°	44.8
62.5°	40.2
65°	36.2
67.5°	32.2
70°	28.7
72.5°	25.9

TEST NUMBER: P701805

CATALOG NUMBER: 340-4C-08-D010 / 340-EU4C-1020-9024-4LBW1LI-CQ

CANDELA DISTRIBUTION (continued):

	0°
75°	23.0
77.5°	20.7
80°	18.4
82.5°	16.1
85°	14.4
87.5°	12.6
90°	11.5
92.5°	10.3
95°	8.0
97.5°	5.7
100°	4.0
102.5°	2.3
105°	1.1
107.5°	0.6
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)