

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: P701924

Luminaire Tested: 340-4C-15-D010 / 340-EU4C-1020-9027-4LBW1LI-CQ

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701924
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-1020-9027-4LBW1LI-CQ
Description: FARALLON 4" LED GLASS DOWNLIGHT CYLINDRICAL FROSTED, QUADRATE ETCHED GLASS KIT.
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

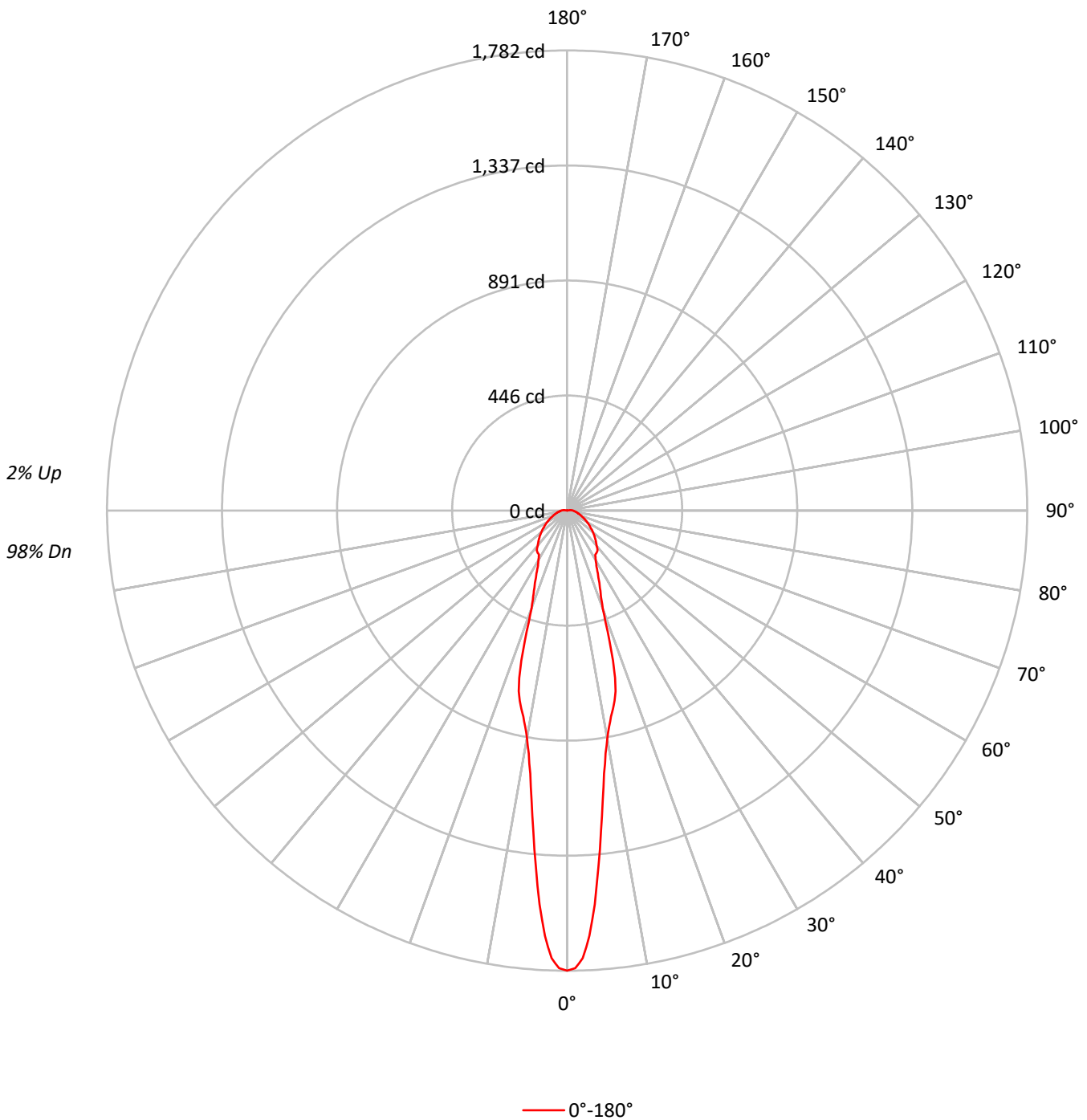
Lumens per Lamp: N/A
Luminaire Lumens: 949.4 lumens
Efficiency: N/A
Efficacy: 60.1 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.33 / 0.46
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 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°	206636
5°	140621
10°	81050
15°	59803
20°	30790
25°	20471
30°	14968
35°	12906
40°	11097
45°	9339
50°	7801
55°	6430
60°	5263
65°	4270
70°	3430
75°	2804
80°	2306
85°	1872

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9339 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.9	12.1
10°-20°	187.0	19.7
20°-30°	133.8	14.1
30°-40°	124.6	13.1
40°-50°	118.6	12.5
50°-60°	97.6	10.3
60°-70°	71.8	7.6
70°-80°	49.1	5.2
80°-90°	31.6	3.3
90°-100°	17.4	1.8
100°-110°	3.2	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°	435.7	45.9
0°-40°	560.2	59.0
0°-60°	776.4	81.8
0°-90°	928.8	97.8
90°-120°	20.6	2.2
90°-150°	20.6	2.2
90°-180°	21.0	2.2
0°-180°	949.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1782	
5°	1387	115
15°	725	187
25°	287	134
35°	200	125
45°	154	119
55°	109	98
65°	72	72
75°	46	49
85°	29	25
90°	23	13
95°	16	11
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°	1781.6
1°	1772.4
2°	1734.6
3°	1648.6
4°	1529.4
5°	1387.2
6°	1251.9
7°	1130.4
8°	1028.4
9°	951.6
10°	894.2
11°	851.8
12°	816.3
13°	787.6
14°	759.0
15°	724.6
16°	674.1
17°	607.6
18°	529.7
19°	457.4
20°	403.6
21°	370.3
22°	346.2
23°	325.6
24°	306.1
25°	286.6
27.5°	246.5
30°	221.3
32.5°	202.9
35°	199.5
37.5°	193.8
40°	177.7
42.5°	165.1
45°	153.6
47.5°	142.2
50°	130.7
52.5°	119.2
55°	108.9
57.5°	98.6
60°	89.4
62.5°	80.3
65°	72.2
67.5°	64.2
70°	57.3
72.5°	51.6

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CANDELA DISTRIBUTION (continued):

	0°
75°	45.9
77.5°	41.3
80°	36.7
82.5°	32.1
85°	28.7
87.5°	25.2
90°	22.9
92.5°	20.6
95°	16.1
97.5°	11.5
100°	8.0
102.5°	4.6
105°	2.3
107.5°	1.1
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)