

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: P701930

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

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701930
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-4)
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-CF
Description: FARALLON 4" LED GLASS DOWNLIGHT. CYLINDRICAL FROSTED GLASS KIT.
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

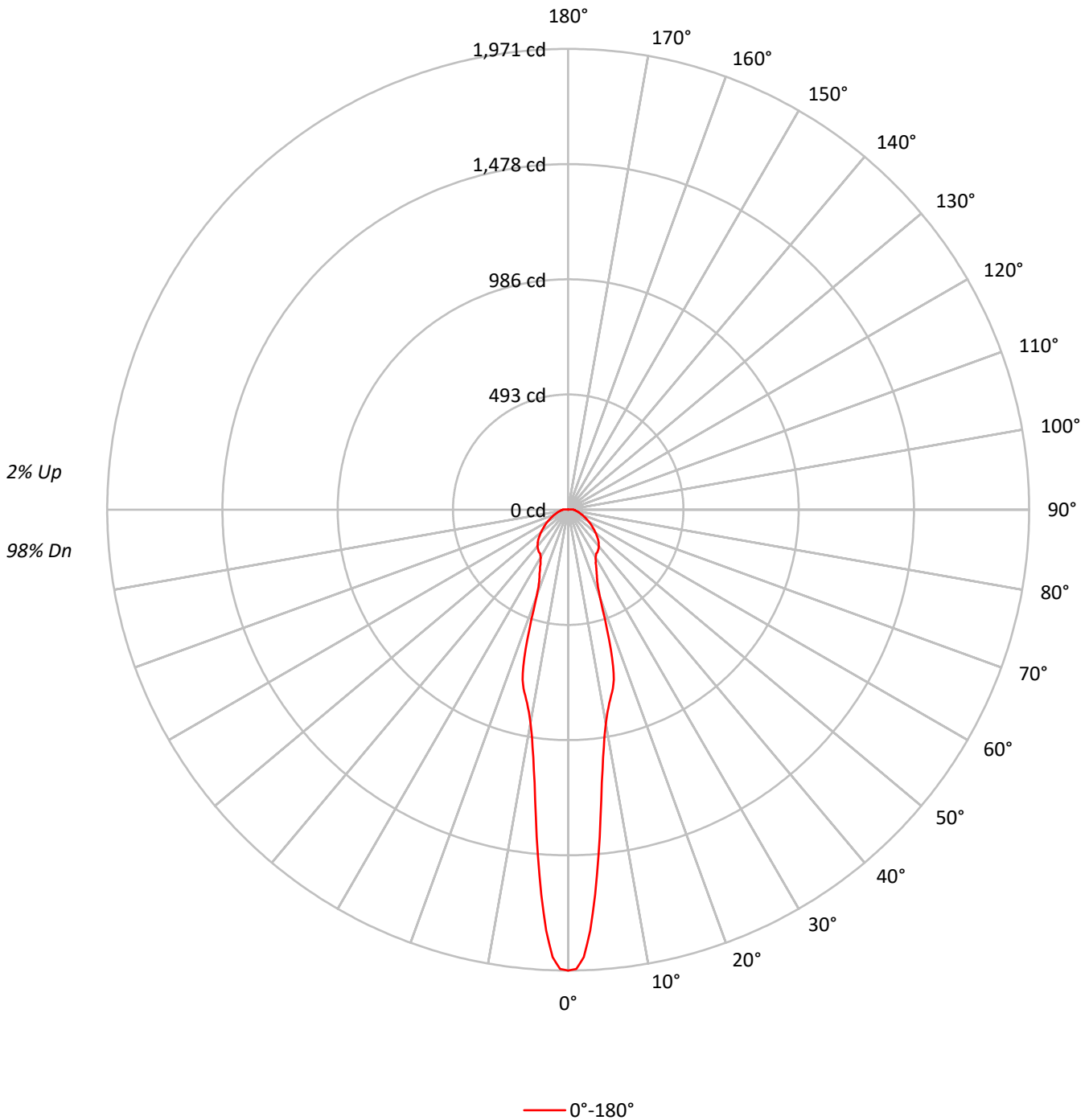
Lumens per Lamp: N/A
Luminaire Lumens: 1020.6 lumens
Efficiency: N/A
Efficacy: 64.6 lumens/watt
Spacing Criteria (0/90/45): 0.3 / 0.3 / 0.45
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

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	98	92	86	82	88	83	80		85	81	77		81	78	75	73
3	94	85	78	72	91	83	76	71	80	74	70		77	72	68		74	70	67	65
4	87	77	70	64	85	76	69	63	73	67	62		71	65	61		68	64	60	58
5	82	71	63	57	80	70	62	57	67	61	56		65	60	55		63	59	55	53
6	77	65	58	52	75	64	57	52	62	56	51		61	55	51		59	54	50	48
7	72	61	53	48	71	60	53	48	58	52	47		57	51	47		55	50	46	45
8	69	57	49	44	67	56	49	44	55	48	44		53	48	43		52	47	43	41
9	65	53	46	41	64	53	46	41	52	45	41		50	45	41		49	44	40	39
10	62	50	43	39	61	50	43	39	49	43	39		48	42	38		47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	228649
5°	150900
10°	83942
15°	62171
20°	30004
25°	20429
30°	15881
35°	14187
40°	12727
45°	11017
50°	9108
55°	7387
60°	5963
65°	4725
70°	3712
75°	2987
80°	2394
85°	1944

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11017 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.8	11.9
10°-20°	192.2	18.8
20°-30°	133.6	13.1
30°-40°	136.9	13.4
40°-50°	138.7	13.6
50°-60°	112.5	11.0
60°-70°	79.5	7.8
70°-80°	51.9	5.1
80°-90°	32.6	3.2
90°-100°	17.6	1.7
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°	447.5	43.8
0°-40°	584.4	57.3
0°-60°	835.6	81.9
0°-90°	999.7	98.0
90°-120°	20.9	2.0
90°-150°	20.9	2.0
90°-180°	21.0	2.1
0°-180°	1020.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1971	
5°	1489	122
15°	753	192
25°	286	134
35°	219	137
45°	181	139
55°	125	113
65°	80	79
75°	49	52
85°	30	26
90°	23	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°	1971.4
1°	1964.2
2°	1915.3
3°	1803.3
4°	1651.9
5°	1488.6
6°	1324.2
7°	1176.4
8°	1070.3
9°	986.9
10°	926.1
11°	882.0
12°	846.2
13°	816.4
14°	787.8
15°	753.3
16°	698.4
17°	623.3
18°	537.5
19°	455.3
20°	393.3
21°	355.2
22°	330.1
23°	314.7
24°	300.4
25°	286.0
27.5°	255.1
30°	234.8
32.5°	222.9
35°	219.3
37.5°	212.2
40°	203.8
42.5°	193.1
45°	181.2
47.5°	166.9
50°	152.6
52.5°	138.3
55°	125.1
57.5°	113.2
60°	101.3
62.5°	89.4
65°	79.9
67.5°	70.3
70°	62.0
72.5°	54.8

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CANDELA DISTRIBUTION (continued):

	0°
75°	48.9
77.5°	42.9
80°	38.1
82.5°	33.4
85°	29.8
87.5°	26.2
90°	22.6
92.5°	20.3
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)