

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: P701993

Luminaire Tested: 340-4C-20-D010 / 340-EU4C-1020-9035-4LBW1LI-CF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701993
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-20-D010 / 340-EU4C-1020-9035-4LBW1LI-CF
Description: FARALLON 4" LED GLASS DOWNLIGHT. CYLINDRICAL FROSTED GLASS KIT.
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

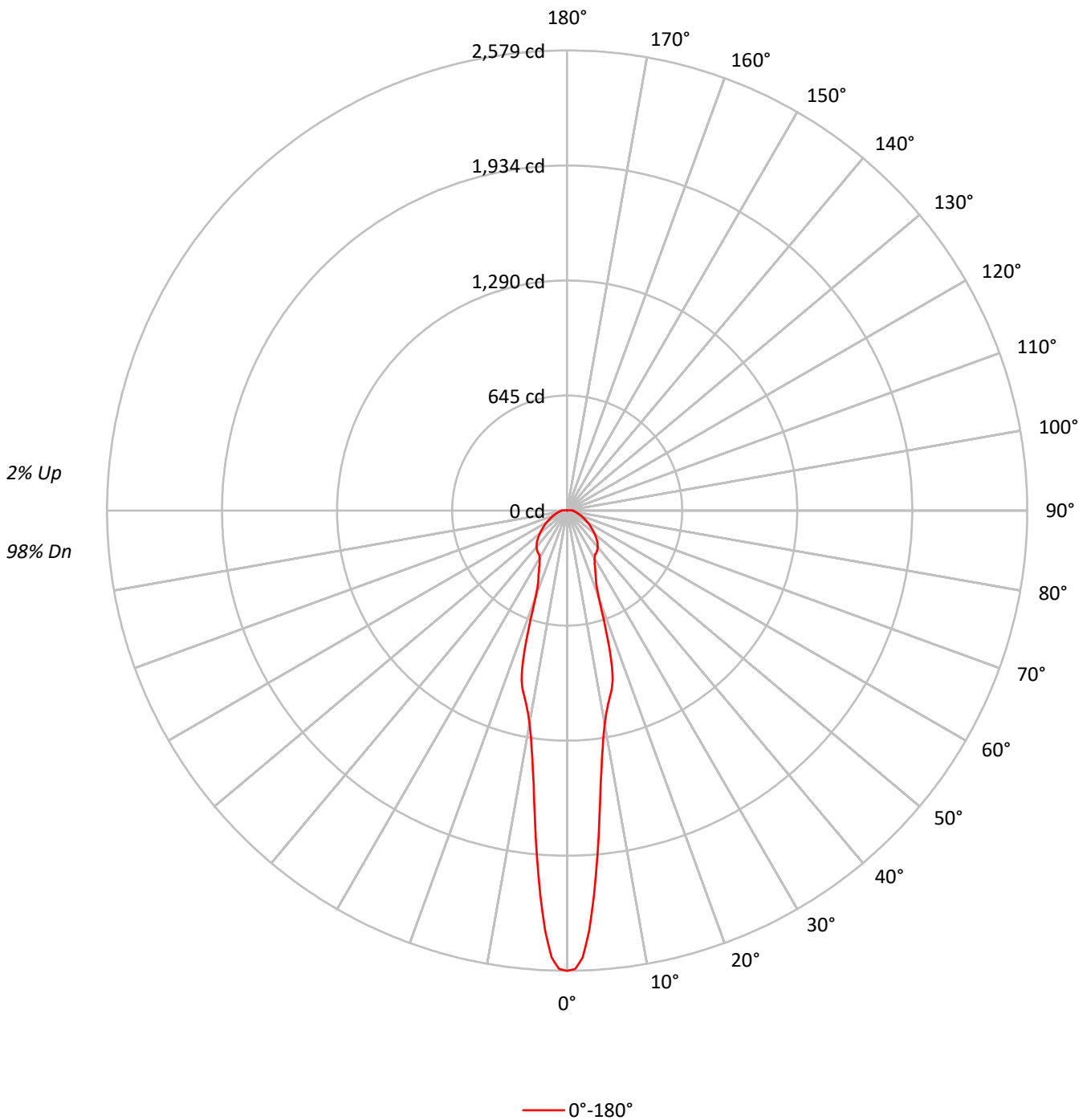
Lumens per Lamp: N/A
Luminaire Lumens: 1335.3 lumens
Efficiency: N/A
Efficacy: 61.3 lumens/watt
Spacing Criteria (0/90/45): 0.3 / 0.3 / 0.45
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 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	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°	299167
5°	197449
10°	109829
15°	81344
20°	39258
25°	26736
30°	20777
35°	18560
40°	16655
45°	14410
50°	11913
55°	9666
60°	7806
65°	6180
70°	4855
75°	3904
80°	3136
85°	2544

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14410 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.3	11.9
10°-20°	251.5	18.8
20°-30°	174.7	13.1
30°-40°	179.1	13.4
40°-50°	181.5	13.6
50°-60°	147.2	11.0
60°-70°	104.0	7.8
70°-80°	67.9	5.1
80°-90°	42.7	3.2
90°-100°	23.0	1.7
100°-110°	4.4	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°	585.5	43.9
0°-40°	764.6	57.3
0°-60°	1093.3	81.9
0°-90°	1307.9	98.0
90°-120°	27.3	2.0
90°-150°	27.3	2.0
90°-180°	27.0	2.0
0°-180°	1335.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2579	
5°	1948	159
15°	986	251
25°	374	175
35°	287	179
45°	237	181
55°	164	147
65°	104	104
75°	64	68
85°	39	34
90°	30	16
95°	22	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	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	2579.4
1°	2570.0
2°	2506.1
3°	2359.5
4°	2161.4
5°	1947.8
6°	1732.6
7°	1539.2
8°	1400.4
9°	1291.2
10°	1211.7
11°	1154.0
12°	1107.2
13°	1068.2
14°	1030.8
15°	985.6
16°	913.9
17°	815.6
18°	703.3
19°	595.7
20°	514.6
21°	464.7
22°	432.0
23°	411.7
24°	393.0
25°	374.3
27.5°	333.7
30°	307.2
32.5°	291.6
35°	286.9
37.5°	277.6
40°	266.7
42.5°	252.6
45°	237.0
47.5°	218.3
50°	199.6
52.5°	180.9
55°	163.7
57.5°	148.2
60°	132.6
62.5°	117.0
65°	104.5
67.5°	92.0
70°	81.1
72.5°	71.7

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CANDELA DISTRIBUTION (continued):

	0°
75°	63.9
77.5°	56.1
80°	49.9
82.5°	43.7
85°	39.0
87.5°	34.3
90°	29.6
92.5°	26.5
95°	21.8
97.5°	15.6
100°	10.9
102.5°	6.2
105°	3.1
107.5°	1.6
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)