

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: P701973

Luminaire Tested: 340-4C-20-D010 / 340-EU4C-1020-9024-4LBW1LI-CQ

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701973
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-20-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

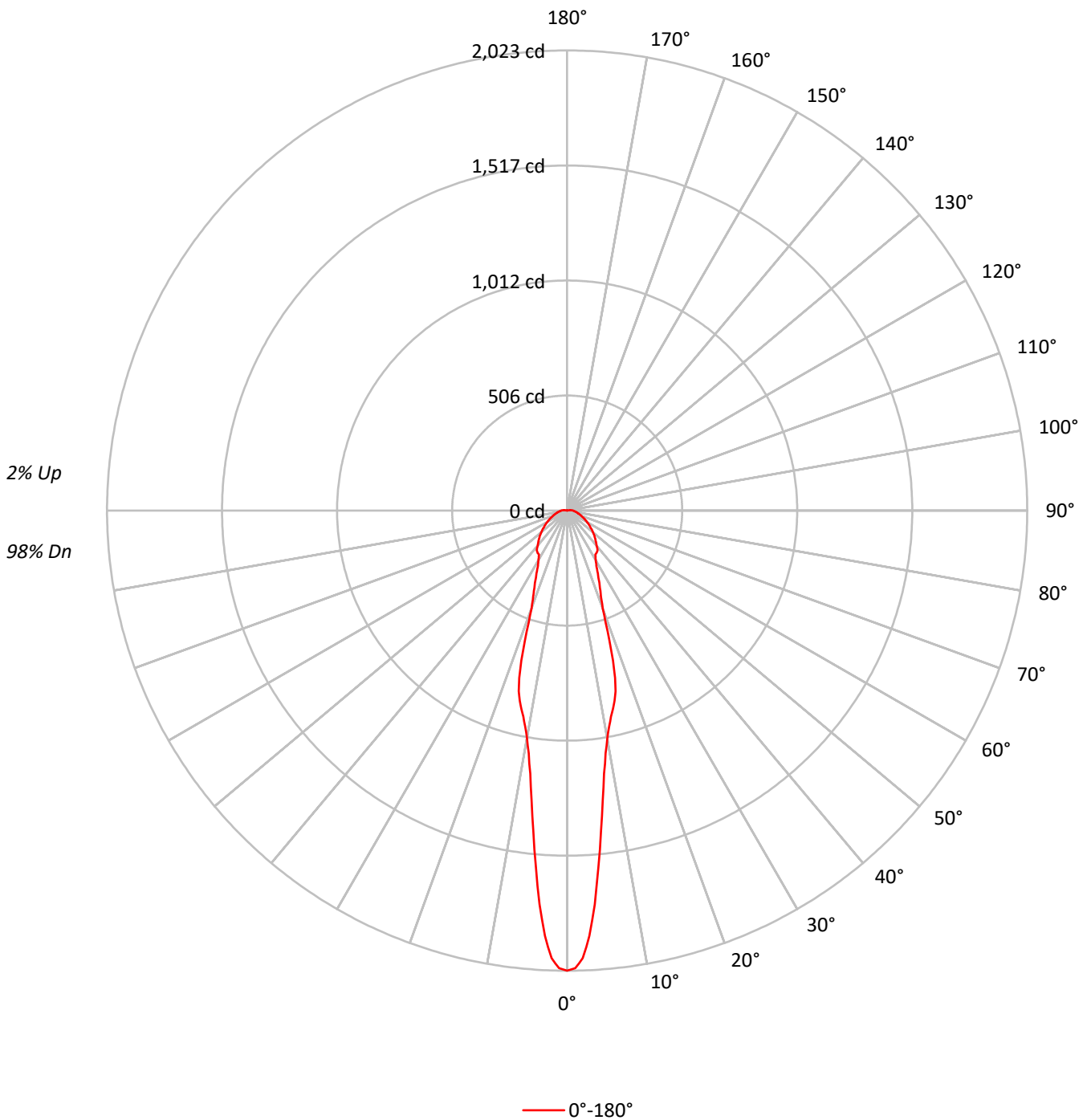
Lumens per Lamp: N/A
Luminaire Lumens: 1077.8 lumens
Efficiency: N/A
Efficacy: 49.4 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.33 / 0.46
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 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	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°	234588
5°	159638
10°	92018
15°	67891
20°	34948
25°	23243
30°	16990
35°	14652
40°	12596
45°	10604
50°	8857
55°	7298
60°	5975
65°	4849
70°	3897
75°	3183
80°	2614
85°	2120

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10604 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.4	12.1
10°-20°	212.3	19.7
20°-30°	151.9	14.1
30°-40°	141.4	13.1
40°-50°	134.6	12.5
50°-60°	110.8	10.3
60°-70°	81.5	7.6
70°-80°	55.7	5.2
80°-90°	35.8	3.3
90°-100°	19.7	1.8
100°-110°	3.6	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°	494.6	45.9
0°-40°	636.0	59.0
0°-60°	881.5	81.8
0°-90°	1054.4	97.8
90°-120°	23.3	2.2
90°-150°	23.3	2.2
90°-180°	23.0	2.1
0°-180°	1077.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2023	
5°	1575	130
15°	823	212
25°	325	152
35°	226	141
45°	174	135
55°	124	111
65°	82	81
75°	52	56
85°	32	28
90°	26	14
95°	18	13
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	0

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CANDELA DISTRIBUTION (FULL):

0°	
0°	2022.6
1°	2012.2
2°	1969.2
3°	1871.6
4°	1736.2
5°	1574.8
6°	1421.3
7°	1283.3
8°	1167.5
9°	1080.3
10°	1015.2
11°	967.0
12°	926.7
13°	894.1
14°	861.6
15°	822.6
16°	765.3
17°	689.8
18°	601.3
19°	519.3
20°	458.1
21°	420.4
22°	393.1
23°	369.6
24°	347.5
25°	325.4
27.5°	279.8
30°	251.2
32.5°	230.4
35°	226.5
37.5°	220.0
40°	201.7
42.5°	187.4
45°	174.4
47.5°	161.4
50°	148.4
52.5°	135.4
55°	123.6
57.5°	111.9
60°	101.5
62.5°	91.1
65°	82.0
67.5°	72.9
70°	65.1
72.5°	58.6

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CANDELA DISTRIBUTION (continued):

	0°
75°	52.1
77.5°	46.9
80°	41.6
82.5°	36.4
85°	32.5
87.5°	28.6
90°	26.0
92.5°	23.4
95°	18.2
97.5°	13.0
100°	9.1
102.5°	5.2
105°	2.6
107.5°	1.3
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)