

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: P701982

Luminaire Tested: 340-4C-20-D010 / 340-EU4C-1020-9027-4LBW1LI-GCC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701982
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-8)
Test Lab: INNOVATION CENTER
Issue Date: 8/30/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 340-4C-20-D010 / 340-EU4C-1020-9027-4LBW1LI-GCC
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, CLEAR INSIDE, CLEAR OUTSIDE GLA
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

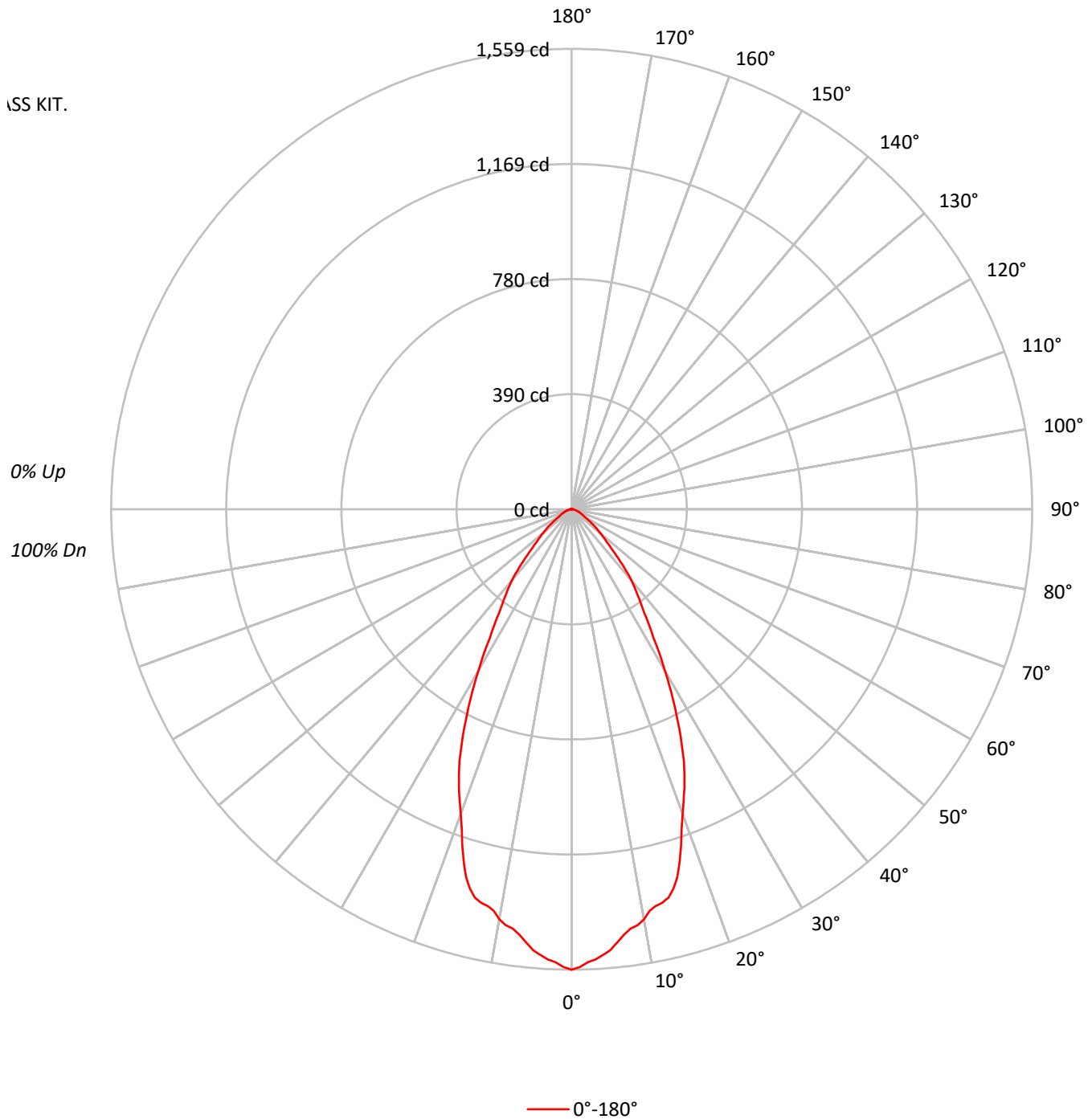
Lumens per Lamp: N/A
Luminaire Lumens: 1471.1 lumens
Efficiency: N/A
Efficacy: 67.5 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.34' x H: 0')
CIE Type: Direct

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	111	111	111		106	106	106		102	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99		99	98	96		96	94	93	91
2	106	101	96	92	104	99	95	91	95	92	89		92	89	87		89	87	85	83
3	100	93	87	83	98	91	86	82	88	84	80		86	82	79		84	81	78	76
4	94	86	79	75	92	85	79	74	82	77	73		80	76	72		78	75	72	70
5	89	80	73	68	87	79	72	68	77	71	67		75	70	67		73	69	66	64
6	84	74	68	63	82	73	67	63	72	66	62		70	65	62		69	65	61	60
7	79	69	63	58	78	69	62	58	67	62	58		66	61	57		65	60	57	55
8	75	65	58	54	74	64	58	54	63	58	54		62	57	53		61	56	53	52
9	71	61	55	50	70	61	54	50	60	54	50		59	53	50		58	53	50	48
10	68	58	51	47	67	57	51	47	56	51	47		55	50	47		55	50	47	45

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	180853
5°	174488
10°	166047
15°	159699
20°	135485
25°	113026
30°	84601
35°	60742
40°	47935
45°	31788
50°	23222
55°	16460
60°	11320
65°	9743
70°	8546
75°	7304
80°	5944
85°	5855

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 31788 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.7	9.5
10°-20°	362.6	24.6
20°-30°	398.9	27.1
30°-40°	276.5	18.8
40°-50°	157.7	10.7
50°-60°	74.9	5.1
60°-70°	35.5	2.4
70°-80°	17.4	1.2
80°-90°	5.0	0.3
90°-100°	1.8	0.1
100°-110°	1.2	0.1
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°	901.1	61.3
0°-40°	1177.6	80.1
0°-60°	1410.2	95.9
0°-90°	1468.1	99.8
90°-120°	3.0	0.2
90°-150°	3.0	0.2
90°-180°	3.0	0.2
0°-180°	1471.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1559	
5°	1499	140
15°	1330	363
25°	883	399
35°	429	277
45°	194	158
55°	81	75
65°	36	35
75°	16	17
85°	4	4
90°	2	1
95°	2	1
105°	2	1
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°	1559.3
1°	1550.5
2°	1535.7
3°	1526.8
4°	1513.5
5°	1498.7
6°	1475.0
7°	1451.3
8°	1433.6
9°	1426.2
10°	1409.9
11°	1384.8
12°	1372.9
13°	1367.0
14°	1355.2
15°	1330.0
16°	1296.0
17°	1250.1
18°	1198.3
19°	1143.6
20°	1097.7
21°	1057.8
22°	1017.9
23°	976.4
24°	933.5
25°	883.2
27.5°	756.0
30°	631.7
32.5°	514.8
35°	429.0
37.5°	366.9
40°	316.6
42.5°	253.0
45°	193.8
47.5°	155.3
50°	128.7
52.5°	105.0
55°	81.4
57.5°	62.1
60°	48.8
62.5°	41.4
65°	35.5
67.5°	29.6
70°	25.2
72.5°	20.7

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CANDELA DISTRIBUTION (continued):

	0°
75°	16.3
77.5°	11.8
80°	8.9
82.5°	5.9
85°	4.4
87.5°	3.0
90°	1.5
92.5°	1.5
95°	1.5
97.5°	1.5
100°	3.0
102.5°	1.5
105°	1.5
107.5°	0.0
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)