

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: P702003

Luminaire Tested: 340-4C-20-D010 / 340-EU4C-1020-9040-4LBW1LI-GCC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702003
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-1020-9040-4LBW1LI-GCC
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, CLEAR INSIDE, CLEAR OUTSIDE GLA
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

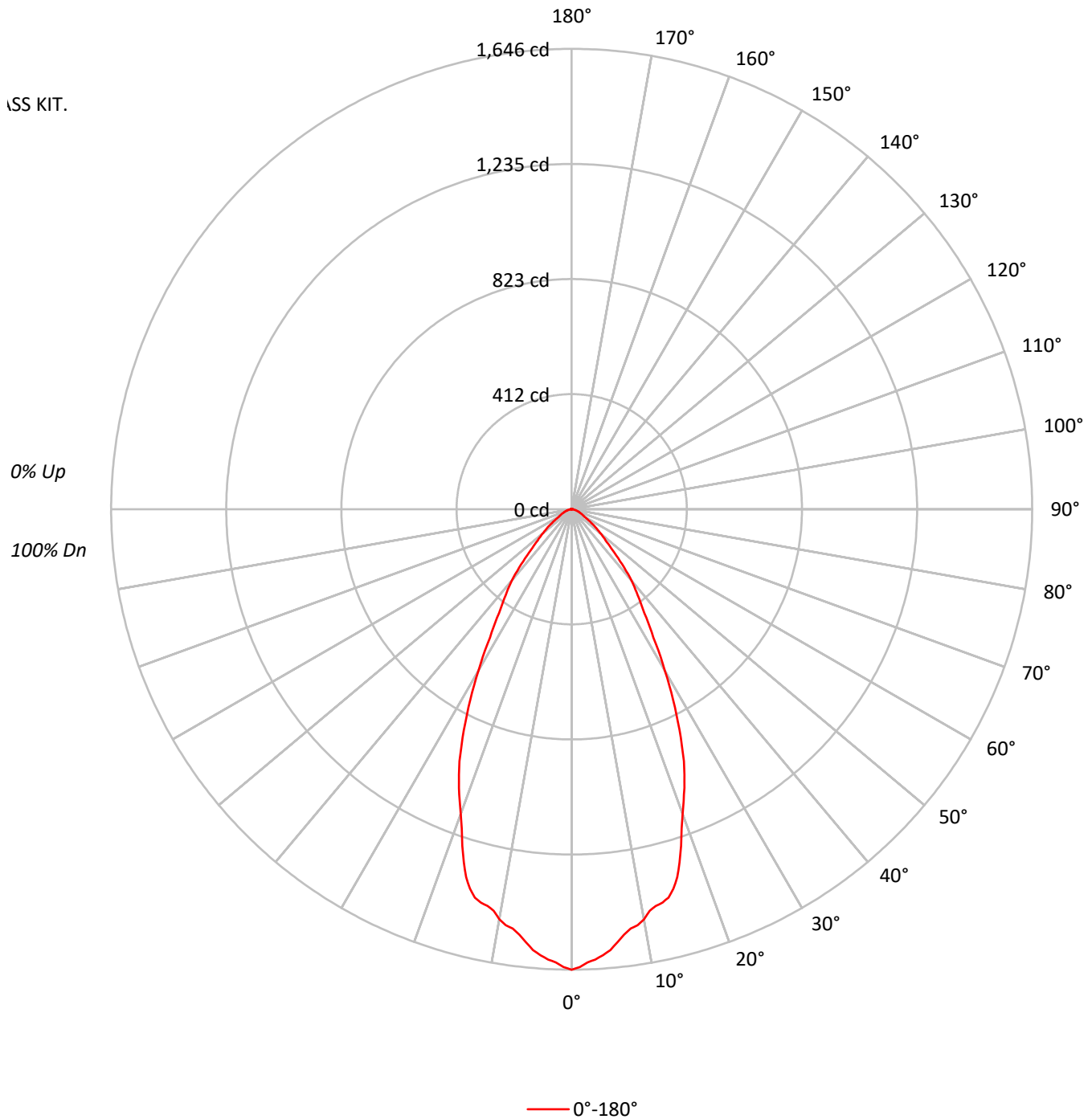
Lumens per Lamp: N/A
Luminaire Lumens: 1553.3 lumens
Efficiency: N/A
Efficacy: 71.3 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.34' x H: 0')
CIE Type: Direct

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°	190955
5°	184233
10°	175316
15°	168621
20°	143052
25°	119335
30°	89329
35°	64140
40°	50615
45°	33560
50°	24521
55°	17370
60°	11946
65°	10291
70°	9020
75°	7708
80°	6278
85°	6255

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 33560 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.5	9.5
10°-20°	382.8	24.6
20°-30°	421.2	27.1
30°-40°	292.0	18.8
40°-50°	166.5	10.7
50°-60°	79.1	5.1
60°-70°	37.4	2.4
70°-80°	18.3	1.2
80°-90°	5.3	0.3
90°-100°	1.9	0.1
100°-110°	1.3	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°	951.4	61.3
0°-40°	1243.4	80.1
0°-60°	1489.0	95.9
0°-90°	1550.1	99.8
90°-120°	3.2	0.2
90°-150°	3.2	0.2
90°-180°	3.0	0.2
0°-180°	1553.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1646	
5°	1582	147
15°	1404	383
25°	932	421
35°	453	292
45°	205	166
55°	86	79
65°	38	37
75°	17	18
85°	5	5
90°	2	1
95°	2	2
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°	1646.4
1°	1637.0
2°	1621.4
3°	1612.0
4°	1598.0
5°	1582.4
6°	1557.4
7°	1532.4
8°	1513.6
9°	1505.8
10°	1488.6
11°	1462.1
12°	1449.6
13°	1443.3
14°	1430.8
15°	1404.3
16°	1368.4
17°	1319.9
18°	1265.3
19°	1207.5
20°	1159.0
21°	1116.9
22°	1074.7
23°	1031.0
24°	985.7
25°	932.5
27.5°	798.2
30°	667.0
32.5°	543.6
35°	453.0
37.5°	387.4
40°	334.3
42.5°	267.1
45°	204.6
47.5°	164.0
50°	135.9
52.5°	110.9
55°	85.9
57.5°	65.6
60°	51.5
62.5°	43.7
65°	37.5
67.5°	31.2
70°	26.6
72.5°	21.9

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CANDELA DISTRIBUTION (continued):

	0°
75°	17.2
77.5°	12.5
80°	9.4
82.5°	6.2
85°	4.7
87.5°	3.1
90°	1.6
92.5°	1.6
95°	1.6
97.5°	1.6
100°	3.1
102.5°	1.6
105°	1.6
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)