

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: P701765

Luminaire Tested: 340-4C-05-D010 / 340-EU4C-1020-9030-4LBW1LI-GCC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701765
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-05-D010 / 340-EU4C-1020-9030-4LBW1LI-GCC
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, CLEAR INSIDE, CLEAR OUTSIDE GLA
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

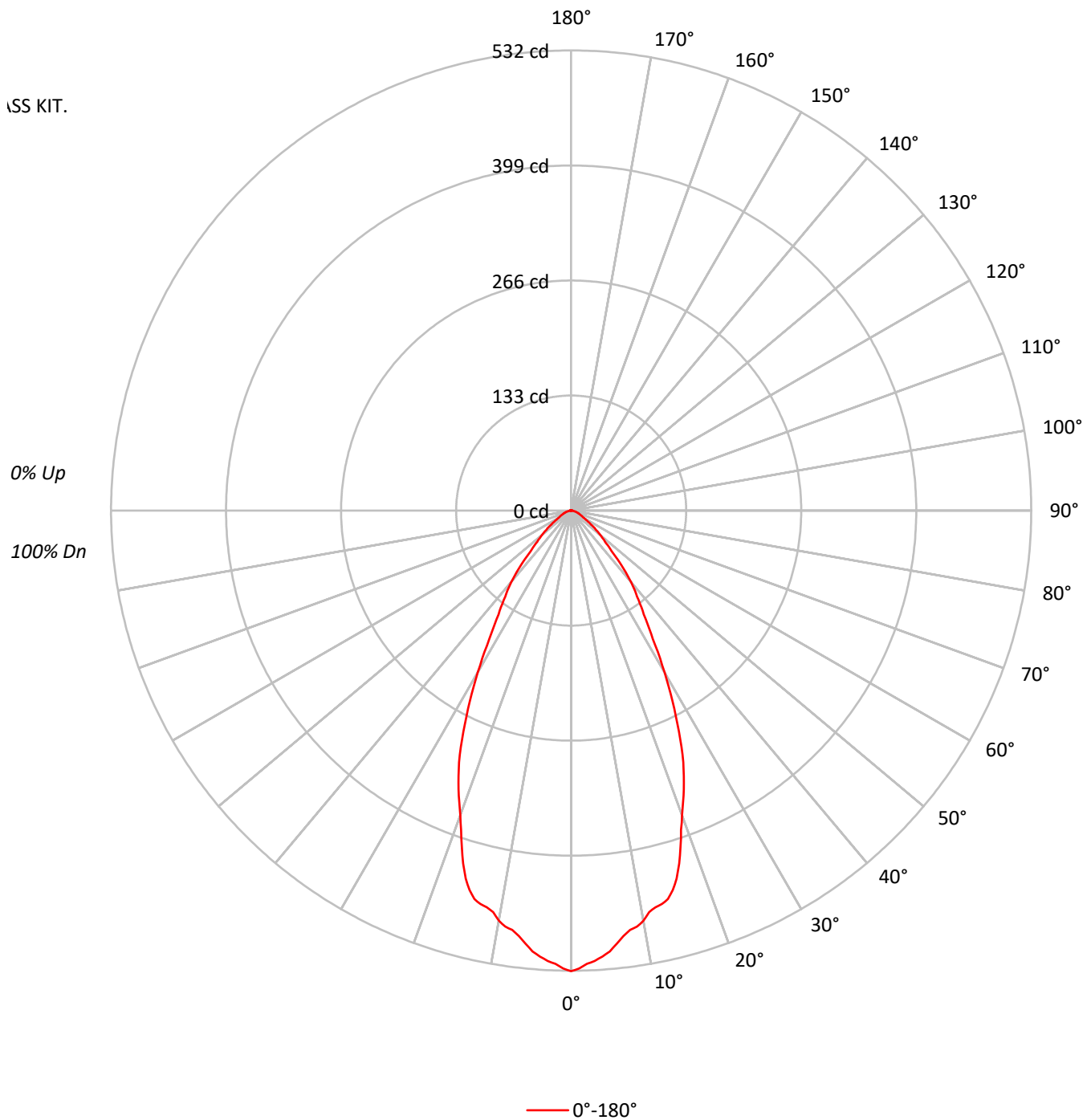
Lumens per Lamp: N/A
Luminaire Lumens: 502.3 lumens
Efficiency: N/A
Efficacy: 69.8 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.34' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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		90	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°	61761
5°	59587
10°	56707
15°	54538
20°	46273
25°	38597
30°	28888
35°	20743
40°	16367
45°	10858
50°	7939
55°	5621
60°	3874
65°	3321
70°	2916
75°	2509
80°	2004
85°	1996

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10858 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.7	9.5
10°-20°	123.8	24.6
20°-30°	136.2	27.1
30°-40°	94.4	18.8
40°-50°	53.8	10.7
50°-60°	25.6	5.1
60°-70°	12.1	2.4
70°-80°	5.9	1.2
80°-90°	1.7	0.3
90°-100°	0.6	0.1
100°-110°	0.4	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°	307.7	61.3
0°-40°	402.2	80.1
0°-60°	481.6	95.9
0°-90°	501.3	99.8
90°-120°	1.0	0.2
90°-150°	1.0	0.2
90°-180°	1.0	0.2
0°-180°	502.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	532	
5°	512	48
15°	454	124
25°	302	136
35°	146	94
45°	66	54
55°	28	26
65°	12	12
75°	6	6
85°	2	1
90°	0	0
95°	0	0
105°	0	0
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°	532.5
1°	529.5
2°	524.4
3°	521.4
4°	516.8
5°	511.8
6°	503.7
7°	495.6
8°	489.6
9°	487.0
10°	481.5
11°	472.9
12°	468.8
13°	466.8
14°	462.8
15°	454.2
16°	442.6
17°	426.9
18°	409.2
19°	390.5
20°	374.9
21°	361.2
22°	347.6
23°	333.4
24°	318.8
25°	301.6
27.5°	258.2
30°	215.7
32.5°	175.8
35°	146.5
37.5°	125.3
40°	108.1
42.5°	86.4
45°	66.2
47.5°	53.0
50°	44.0
52.5°	35.9
55°	27.8
57.5°	21.2
60°	16.7
62.5°	14.1
65°	12.1
67.5°	10.1
70°	8.6
72.5°	7.1

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CANDELA DISTRIBUTION (continued):

	0°
75°	5.6
77.5°	4.0
80°	3.0
82.5°	2.0
85°	1.5
87.5°	1.0
90°	0.5
92.5°	0.5
95°	0.5
97.5°	0.5
100°	1.0
102.5°	0.5
105°	0.5
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)