

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: P701772

Luminaire Tested: 340-4C-05-D010 / 340-EU4C-1020-9035-4LBW1LI-GCC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701772
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-1020-9035-4LBW1LI-GCC
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, CLEAR INSIDE, CLEAR OUTSIDE GLA
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

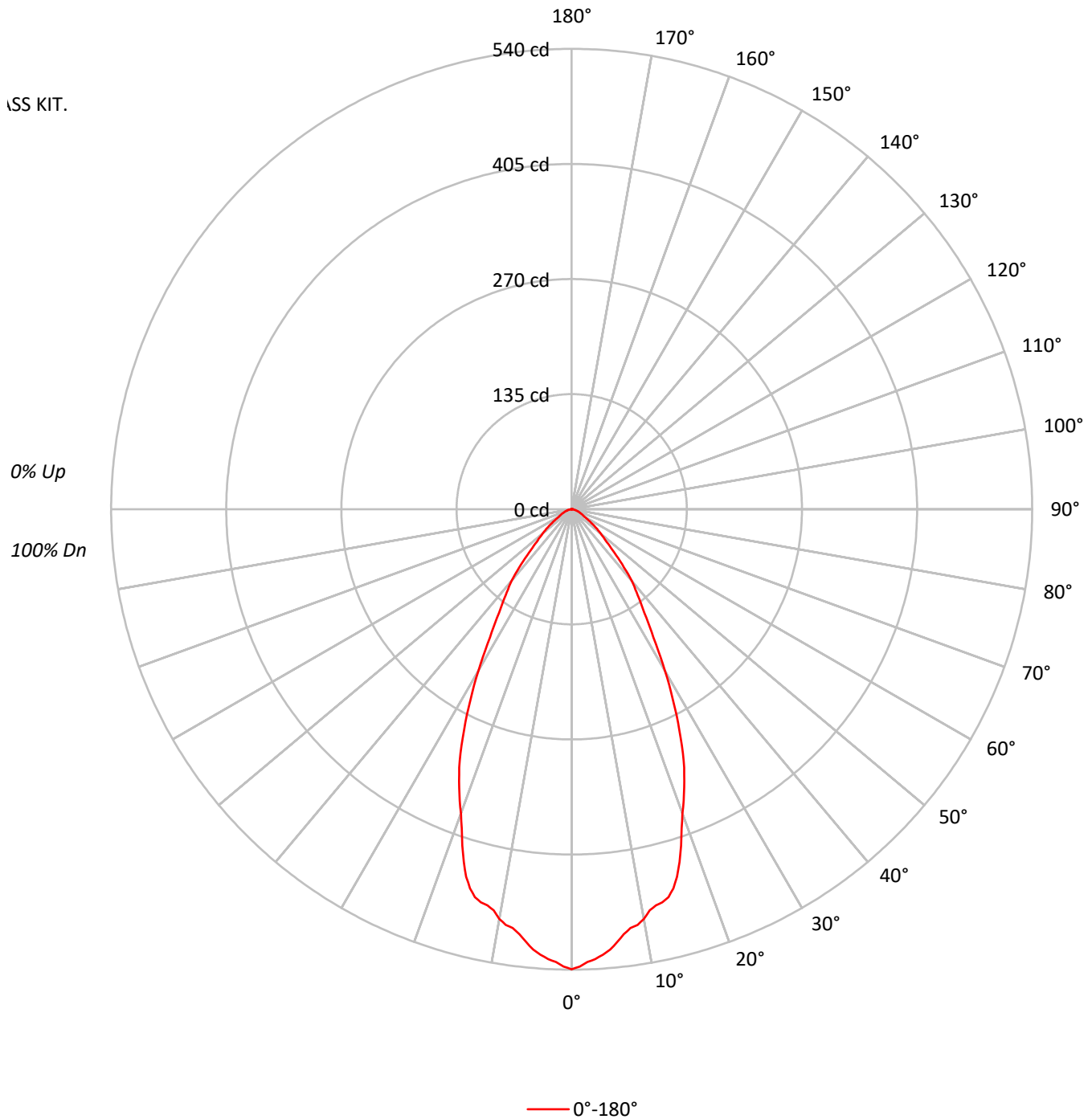
Lumens per Lamp: N/A
Luminaire Lumens: 509.0 lumens
Efficiency: N/A
Efficacy: 70.7 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.34' x H: 0')
CIE Type: Direct

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	80	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°	62585
5°	60379
10°	57461
15°	55270
20°	46890
25°	39109
30°	29276
35°	21026
40°	16594
45°	11006
50°	8029
55°	5702
60°	3920
65°	3376
70°	2950
75°	2509
80°	2071
85°	1996

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11006 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.3	9.5
10°-20°	125.5	24.6
20°-30°	138.0	27.1
30°-40°	95.7	18.8
40°-50°	54.6	10.7
50°-60°	25.9	5.1
60°-70°	12.3	2.4
70°-80°	6.0	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°	311.8	61.3
0°-40°	407.5	80.1
0°-60°	488.0	95.9
0°-90°	508.0	99.8
90°-120°	1.0	0.2
90°-150°	1.0	0.2
90°-180°	1.0	0.2
0°-180°	509.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	540	
5°	519	48
15°	460	125
25°	306	138
35°	148	96
45°	67	55
55°	28	26
65°	12	12
75°	6	6
85°	2	2
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°	539.6
1°	536.5
2°	531.4
3°	528.4
4°	523.7
5°	518.6
6°	510.4
7°	502.2
8°	496.1
9°	493.5
10°	487.9
11°	479.2
12°	475.1
13°	473.1
14°	469.0
15°	460.3
16°	448.5
17°	432.6
18°	414.7
19°	395.8
20°	379.9
21°	366.1
22°	352.2
23°	337.9
24°	323.1
25°	305.6
27.5°	261.6
30°	218.6
32.5°	178.2
35°	148.5
37.5°	127.0
40°	109.6
42.5°	87.5
45°	67.1
47.5°	53.8
50°	44.5
52.5°	36.3
55°	28.2
57.5°	21.5
60°	16.9
62.5°	14.3
65°	12.3
67.5°	10.2
70°	8.7
72.5°	7.2

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CANDELA DISTRIBUTION (continued):

	0°
75°	5.6
77.5°	4.1
80°	3.1
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)