

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: P701758

Luminaire Tested: 340-4C-05-D010 / 340-EU4C-1020-9027-4LBW1LI-GCC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701758
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-1020-9027-4LBW1LI-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

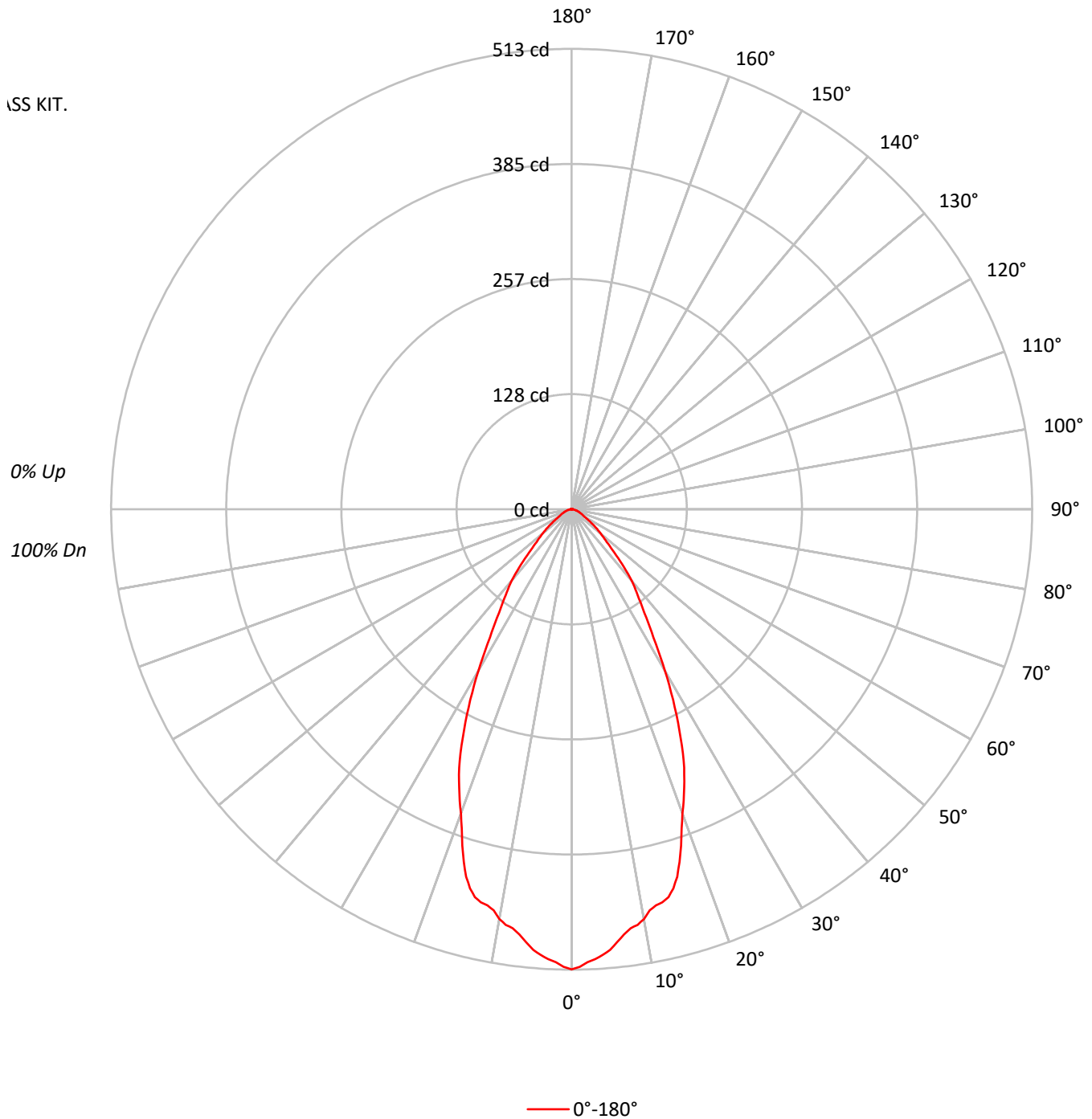
Lumens per Lamp: N/A
Luminaire Lumens: 483.8 lumens
Efficiency: N/A
Efficacy: 67.2 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.34' x H: 0')
CIE Type: Direct

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	100	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	84	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°	59465
5°	57375
10°	54599
15°	52509
20°	44545
25°	37163
30°	27816
35°	19978
40°	15761
45°	10448
50°	7633
55°	5419
60°	3735
65°	3211
70°	2815
75°	2420
80°	1937
85°	1996

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10448 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.9	9.5
10°-20°	119.2	24.6
20°-30°	131.2	27.1
30°-40°	90.9	18.8
40°-50°	51.8	10.7
50°-60°	24.6	5.1
60°-70°	11.7	2.4
70°-80°	5.7	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°	296.3	61.2
0°-40°	387.2	80.0
0°-60°	463.7	95.9
0°-90°	482.7	99.8
90°-120°	1.0	0.2
90°-150°	1.0	0.2
90°-180°	1.0	0.2
0°-180°	483.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	513	
5°	493	46
15°	437	119
25°	290	131
35°	141	91
45°	64	52
55°	27	25
65°	12	12
75°	5	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°	512.7
1°	509.8
2°	504.9
3°	502.0
4°	497.6
5°	492.8
6°	485.0
7°	477.2
8°	471.4
9°	468.9
10°	463.6
11°	455.3
12°	451.4
13°	449.5
14°	445.6
15°	437.3
16°	426.1
17°	411.0
18°	394.0
19°	376.0
20°	360.9
21°	347.8
22°	334.7
23°	321.1
24°	306.9
25°	290.4
27.5°	248.6
30°	207.7
32.5°	169.3
35°	141.1
37.5°	120.6
40°	104.1
42.5°	83.2
45°	63.7
47.5°	51.1
50°	42.3
52.5°	34.5
55°	26.8
57.5°	20.4
60°	16.1
62.5°	13.6
65°	11.7
67.5°	9.7
70°	8.3
72.5°	6.8

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CANDELA DISTRIBUTION (continued):

	0°
75°	5.4
77.5°	3.9
80°	2.9
82.5°	1.9
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)