

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: P701821

Luminaire Tested: 340-4C-08-D010 / 340-EU4C-1020-9030-4LBW1LI-GCC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701821
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-08-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

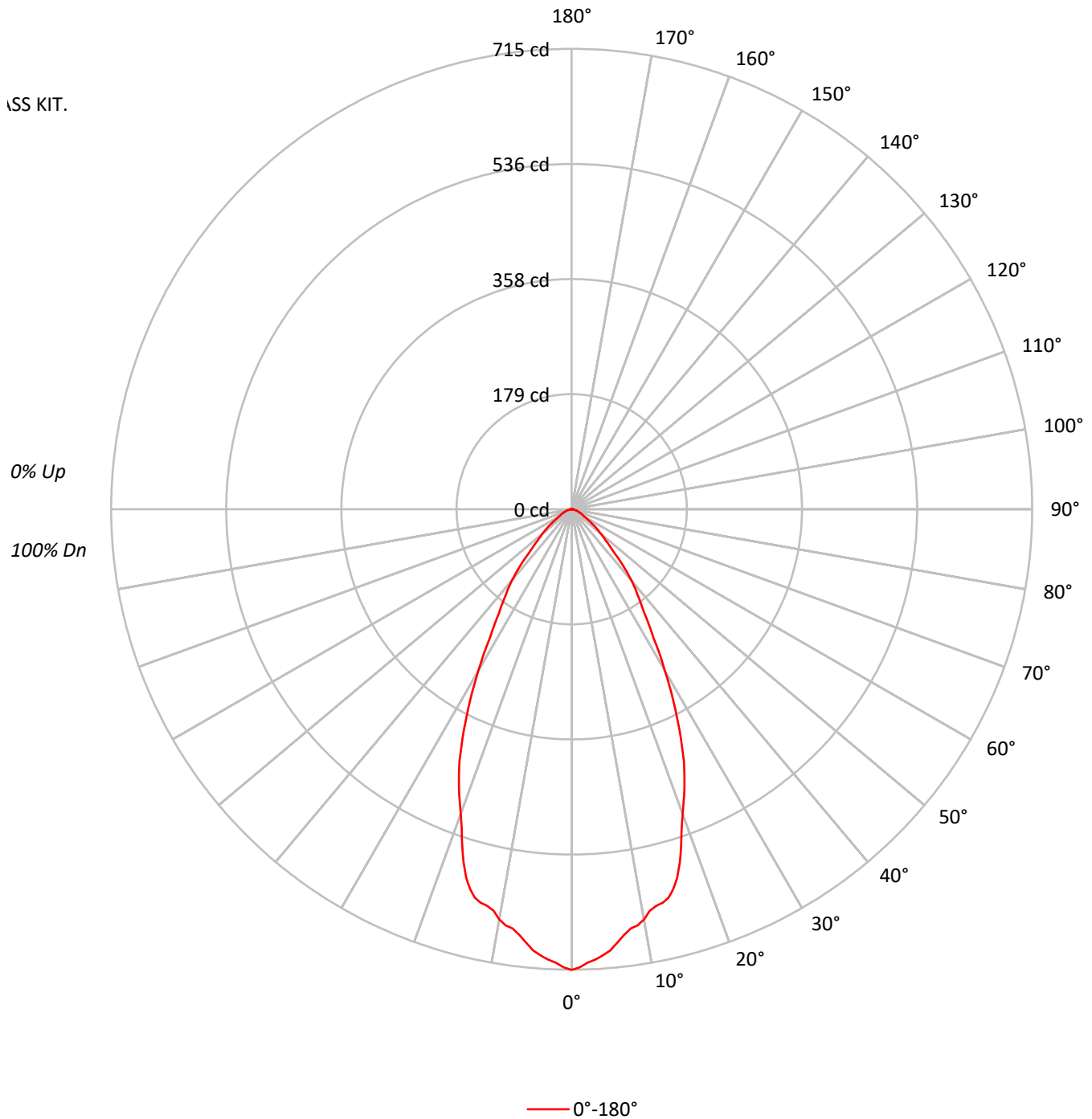
Lumens per Lamp: N/A
Luminaire Lumens: 675.0 lumens
Efficiency: N/A
Efficacy: 68.2 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.34' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
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	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°	82974
5°	80055
10°	76187
15°	73270
20°	62170
25°	51855
30°	38812
35°	27865
40°	21999
45°	14582
50°	10664
55°	7542
60°	5196
65°	4473
70°	3900
75°	3361
80°	2738
85°	2662

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14582 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.1	9.5
10°-20°	166.3	24.6
20°-30°	183.0	27.1
30°-40°	126.9	18.8
40°-50°	72.4	10.7
50°-60°	34.4	5.1
60°-70°	16.3	2.4
70°-80°	8.0	1.2
80°-90°	2.3	0.3
90°-100°	0.9	0.1
100°-110°	0.6	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°	413.4	61.2
0°-40°	540.3	80.0
0°-60°	647.0	95.9
0°-90°	673.6	99.8
90°-120°	1.4	0.2
90°-150°	1.4	0.2
90°-180°	1.0	0.1
0°-180°	675.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	715	
5°	688	64
15°	610	166
25°	405	183
35°	197	127
45°	89	72
55°	37	34
65°	16	16
75°	8	8
85°	2	2
90°	1	0
95°	1	1
105°	1	1
115°	0	0
125°	0	0
135°	0	0
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	715.4
1°	711.4
2°	704.6
3°	700.5
4°	694.4
5°	687.6
6°	676.8
7°	665.9
8°	657.7
9°	654.4
10°	646.9
11°	635.3
12°	629.9
13°	627.2
14°	621.8
15°	610.2
16°	594.6
17°	573.6
18°	549.8
19°	524.7
20°	503.7
21°	485.3
22°	467.0
23°	448.0
24°	428.3
25°	405.2
27.5°	346.9
30°	289.8
32.5°	236.2
35°	196.8
37.5°	168.3
40°	145.3
42.5°	116.1
45°	88.9
47.5°	71.3
50°	59.1
52.5°	48.2
55°	37.3
57.5°	28.5
60°	22.4
62.5°	19.0
65°	16.3
67.5°	13.6
70°	11.5
72.5°	9.5

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CANDELA DISTRIBUTION (continued):

	0°
75°	7.5
77.5°	5.4
80°	4.1
82.5°	2.7
85°	2.0
87.5°	1.4
90°	0.7
92.5°	0.7
95°	0.7
97.5°	0.7
100°	1.4
102.5°	0.7
105°	0.7
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)