

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: P702311

Luminaire Tested: 340-6C-08-D010 / 340-EU4C-1020-9024-4LBW1LI-GCC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702311
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-16)
Test Lab: INNOVATION CENTER
Issue Date: 8/30/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 340-6C-08-D010 / 340-EU4C-1020-9024-4LBW1LI-GCC
Description: FARALLON 6" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, CLEAR INSIDE, CLEAR OUTSIDE GLA
Light Source: 2400K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

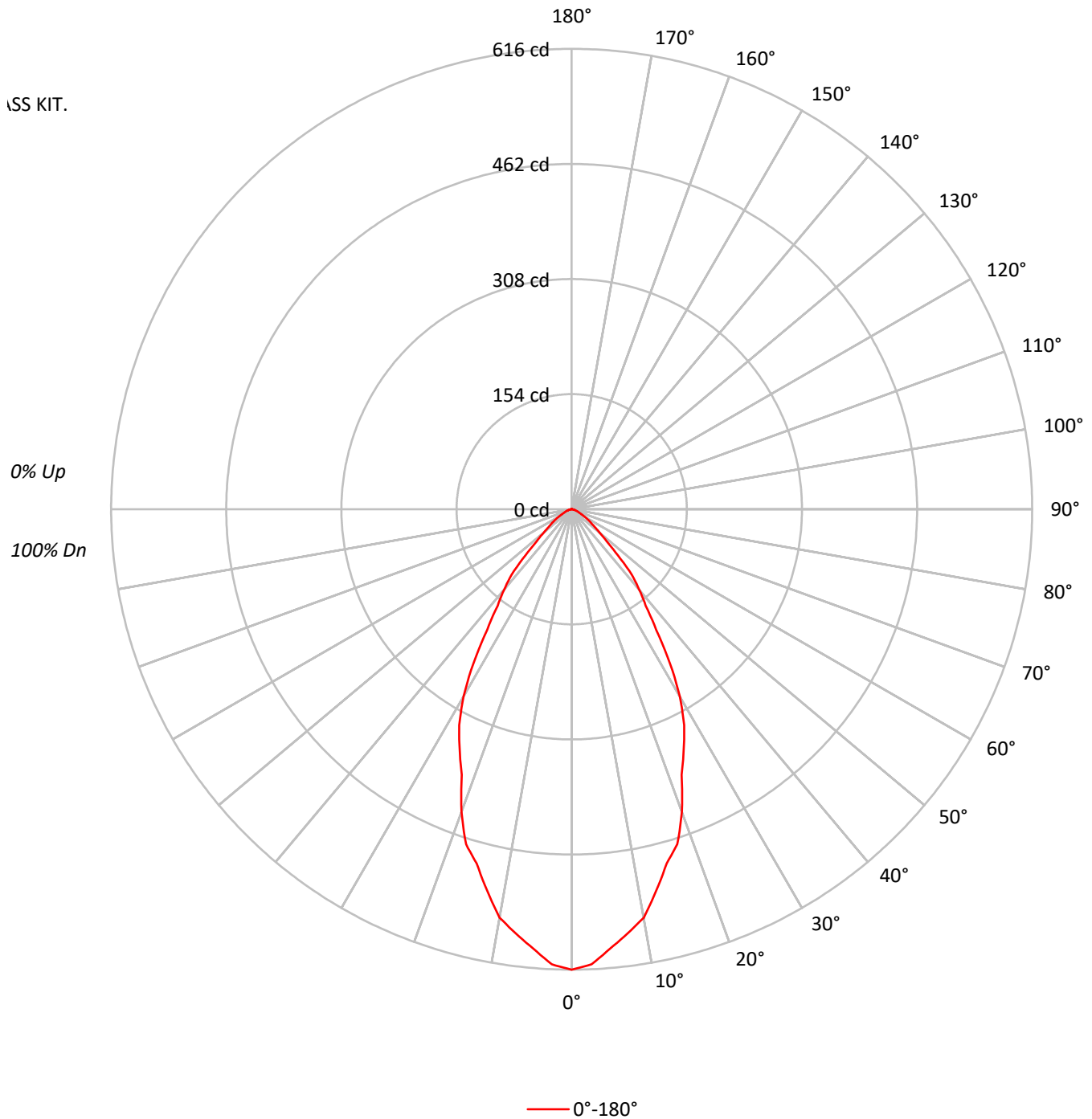
Lumens per Lamp: N/A
Luminaire Lumens: 602.2 lumens
Efficiency: N/A
Efficacy: 60.8 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.82 / 0.89
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

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	95	93	92
2	106	101	96	92	104	99	95	91	95	92	89		92	90	87		90	87	85	83
3	100	93	87	83	98	91	86	82	88	84	81		86	82	79		84	81	78	76
4	94	86	79	75	92	84	79	74	82	77	73		80	76	72		78	74	71	70
5	89	79	73	68	87	78	72	68	76	71	67		75	70	66		73	69	66	64
6	84	74	67	62	82	73	67	62	71	66	62		70	65	61		69	64	61	59
7	79	69	62	58	78	68	62	57	67	61	57		66	60	57		64	60	56	55
8	75	64	58	53	74	64	58	53	63	57	53		62	56	53		61	56	52	51
9	71	60	54	50	70	60	54	50	59	53	49		58	53	49		57	52	49	48
10	67	57	51	46	66	56	50	46	56	50	46		55	50	46		54	49	46	44

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	40195
5°	38639
10°	36754
15°	33136
20°	29930
25°	25533
30°	21786
35°	15698
40°	11983
45°	8055
50°	4983
55°	3583
60°	2610
65°	1775
70°	1507
75°	1235
80°	1127
85°	898

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8055 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.3	9.2
10°-20°	138.4	23.0
20°-30°	163.1	27.1
30°-40°	126.8	21.1
40°-50°	69.6	11.6
50°-60°	29.0	4.8
60°-70°	12.3	2.0
70°-80°	5.3	0.9
80°-90°	1.5	0.2
90°-100°	0.7	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°	356.7	59.2
0°-40°	483.5	80.3
0°-60°	582.1	96.7
0°-90°	601.1	99.8
90°-120°	1.1	0.2
90°-150°	1.1	0.2
90°-180°	1.0	0.2
0°-180°	602.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	616	
5°	590	55
15°	491	138
25°	355	163
35°	197	127
45°	87	70
55°	32	29
65°	12	12
75°	5	5
85°	1	1
90°	1	0
95°	1	0
105°	1	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°	616.1
2.5°	609.4
5°	590.0
7.5°	572.4
10°	554.8
12.5°	522.7
15°	490.6
17.5°	469.9
20°	431.1
22.5°	384.4
25°	354.7
27.5°	325.6
30°	289.2
32.5°	245.0
35°	197.1
37.5°	162.5
40°	140.7
42.5°	119.5
45°	87.3
47.5°	63.1
50°	49.1
52.5°	38.8
55°	31.5
57.5°	25.5
60°	20.0
62.5°	14.6
65°	11.5
67.5°	9.7
70°	7.9
72.5°	6.1
75°	4.9
77.5°	3.6
80°	3.0
82.5°	1.8
85°	1.2
87.5°	0.6
90°	0.6
92.5°	0.6
95°	0.6
97.5°	0.6
100°	0.6
102.5°	0.6
105°	0.6
107.5°	0.0
110°	0.0

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CANDELA DISTRIBUTION (continued):

	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)