

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: P702570

Luminaire Tested: 340-6C-25-D010 / 340-EU4C-3040-9050-4LBW1LI-GCC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702570
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-25-D010 / 340-EU4C-3040-9050-4LBW1LI-GCC
Description: FARALLON 6" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, CLEAR INSIDE, CLEAR OUTSIDE GLA
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

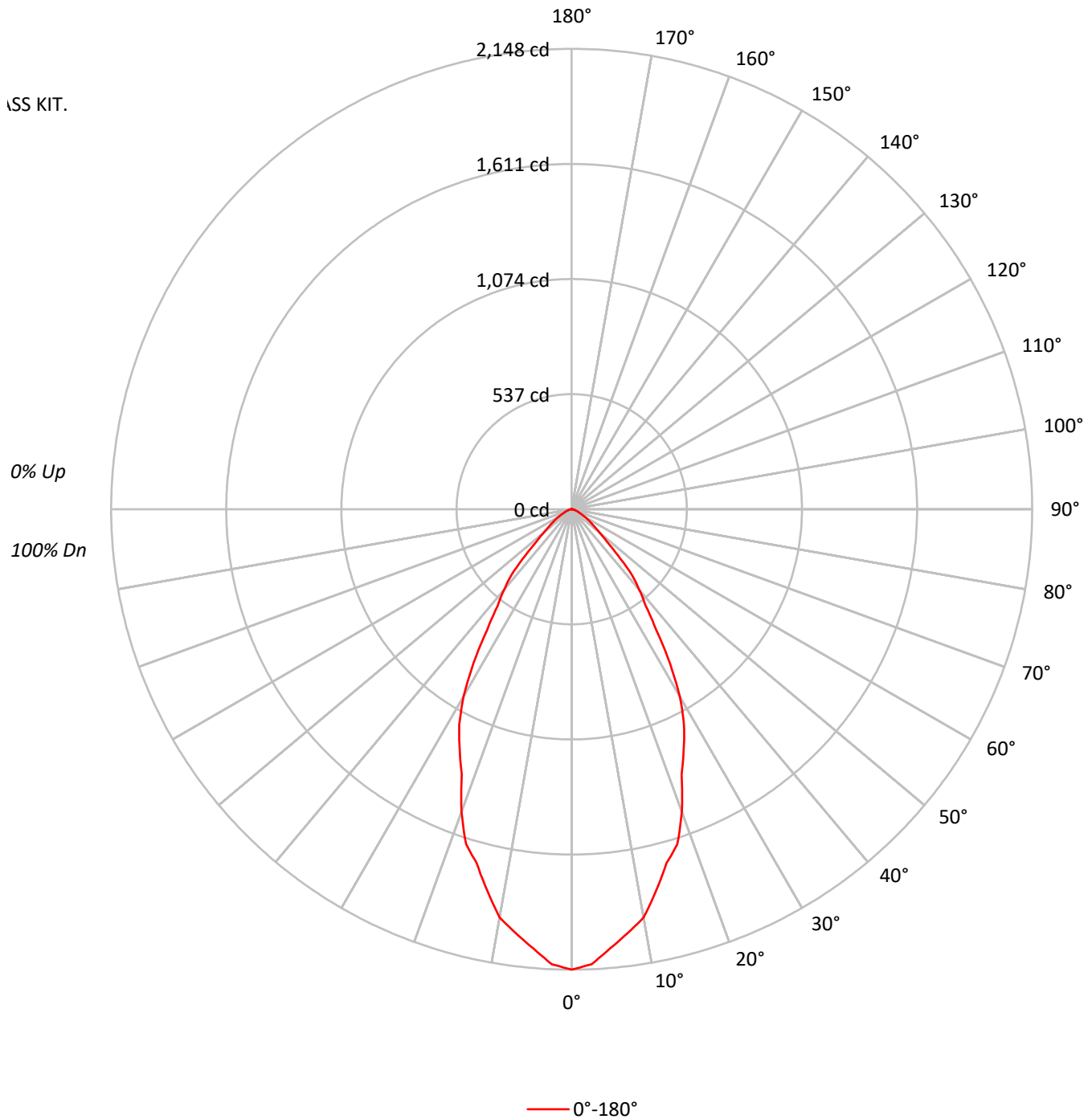
Lumens per Lamp: N/A
Luminaire Lumens: 2099.1 lumens
Efficiency: N/A
Efficacy: 66.6 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.82 / 0.89
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

Input Watts (W): 31.5
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°	140104
5°	134686
10°	128122
15°	115497
20°	104336
25°	89010
30°	75951
35°	54715
40°	41765
45°	28085
50°	17376
55°	12500
60°	9108
65°	6206
70°	5246
75°	4260
80°	3982
85°	3144

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 28085 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.6	9.2
10°-20°	482.3	23.0
20°-30°	568.5	27.1
30°-40°	442.0	21.1
40°-50°	242.5	11.6
50°-60°	101.1	4.8
60°-70°	42.8	2.0
70°-80°	18.4	0.9
80°-90°	5.2	0.2
90°-100°	2.3	0.1
100°-110°	1.4	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°	1243.5	59.2
0°-40°	1685.5	80.3
0°-60°	2029.1	96.7
0°-90°	2095.4	99.8
90°-120°	3.7	0.2
90°-150°	3.7	0.2
90°-180°	4.0	0.2
0°-180°	2099.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2148	
5°	2057	193
15°	1710	482
25°	1236	569
35°	687	442
45°	304	242
55°	110	101
65°	40	43
75°	17	18
85°	4	5
90°	2	1
95°	2	2
105°	2	1
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°	2147.5
2.5°	2124.3
5°	2056.6
7.5°	1995.3
10°	1934.0
12.5°	1822.0
15°	1710.0
17.5°	1638.1
20°	1502.8
22.5°	1340.1
25°	1236.5
27.5°	1135.1
30°	1008.2
32.5°	853.9
35°	687.0
37.5°	566.5
40°	490.4
42.5°	416.4
45°	304.4
47.5°	219.8
50°	171.2
52.5°	135.3
55°	109.9
57.5°	88.8
60°	69.8
62.5°	50.7
65°	40.2
67.5°	33.8
70°	27.5
72.5°	21.1
75°	16.9
77.5°	12.7
80°	10.6
82.5°	6.3
85°	4.2
87.5°	2.1
90°	2.1
92.5°	2.1
95°	2.1
97.5°	2.1
100°	2.1
102.5°	2.1
105°	2.1
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)