

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: P702549

Luminaire Tested: 340-6C-25-D010 / 340-EU4C-3040-9030-4LBW1LI-GCC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702549
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-3040-9030-4LBW1LI-GCC
Description: FARALLON 6" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, CLEAR INSIDE, CLEAR OUTSIDE GLA
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

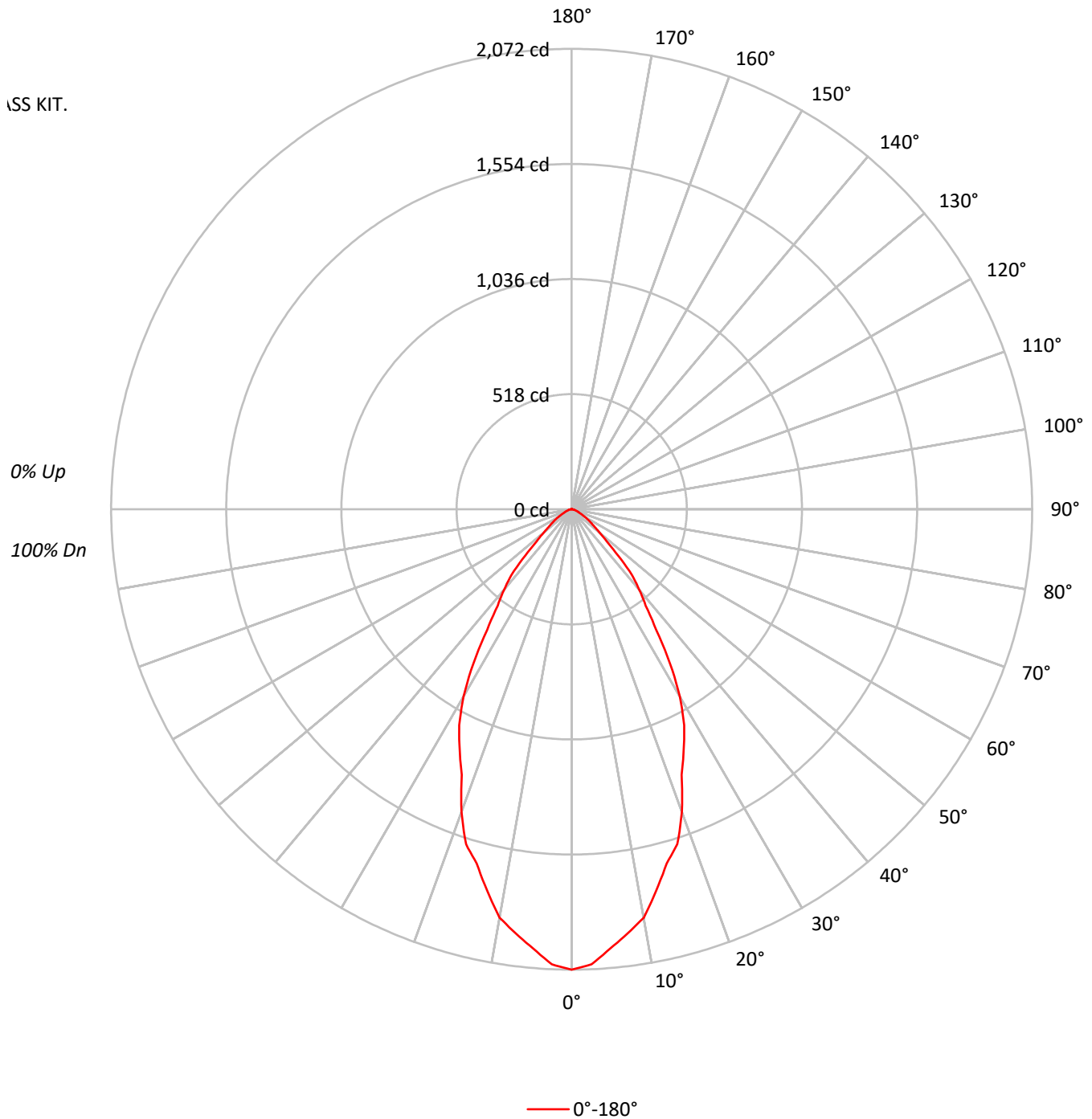
Lumens per Lamp: N/A
Luminaire Lumens: 2025.3 lumens
Efficiency: N/A
Efficacy: 64.3 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.82 / 0.89
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P702549

CATALOG NUMBER: 340-6C-25-D010 / 340-EU4C-3040-9030-4LBW1LI-GCC

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	96	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	75	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°	135185
5°	129958
10°	123624
15°	111438
20°	100677
25°	85885
30°	73284
35°	52788
40°	40300
45°	27098
50°	16767
55°	12068
60°	8781
65°	5990
70°	5055
75°	4109
80°	3832
85°	3069

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 27098 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.9	9.2
10°-20°	465.4	23.0
20°-30°	548.6	27.1
30°-40°	426.5	21.1
40°-50°	234.0	11.6
50°-60°	97.5	4.8
60°-70°	41.3	2.0
70°-80°	17.7	0.9
80°-90°	5.0	0.2
90°-100°	2.2	0.1
100°-110°	1.3	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°	1199.8	59.2
0°-40°	1626.3	80.3
0°-60°	1957.8	96.7
0°-90°	2021.8	99.8
90°-120°	3.5	0.2
90°-150°	3.5	0.2
90°-180°	4.0	0.2
0°-180°	2025.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2072	
5°	1984	186
15°	1650	465
25°	1193	549
35°	663	426
45°	294	234
55°	106	98
65°	39	41
75°	16	18
85°	4	4
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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CATALOG NUMBER: 340-6C-25-D010 / 340-EU4C-3040-9030-4LBW1LI-GCC

CANDELA DISTRIBUTION (FULL):

0°	
0°	2072.1
2.5°	2049.7
5°	1984.4
7.5°	1925.3
10°	1866.1
12.5°	1758.0
15°	1649.9
17.5°	1580.6
20°	1450.1
22.5°	1293.0
25°	1193.1
27.5°	1095.2
30°	972.8
32.5°	824.0
35°	662.8
37.5°	546.6
40°	473.2
42.5°	401.8
45°	293.7
47.5°	212.1
50°	165.2
52.5°	130.5
55°	106.1
57.5°	85.7
60°	67.3
62.5°	48.9
65°	38.8
67.5°	32.6
70°	26.5
72.5°	20.4
75°	16.3
77.5°	12.2
80°	10.2
82.5°	6.1
85°	4.1
87.5°	2.0
90°	2.0
92.5°	2.0
95°	2.0
97.5°	2.0
100°	2.0
102.5°	2.0
105°	2.0
107.5°	0.0
110°	0.0

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CATALOG NUMBER: 340-6C-25-D010 / 340-EU4C-3040-9030-4LBW1LI-GCC

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)