

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: P702122

Luminaire Tested: 340-4C-30-D010 / 340-EU4C-3040-9050-4LBW1LI-GCC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702122
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-30-D010 / 340-EU4C-3040-9050-4LBW1LI-GCC
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, CLEAR INSIDE, CLEAR OUTSIDE GLA
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

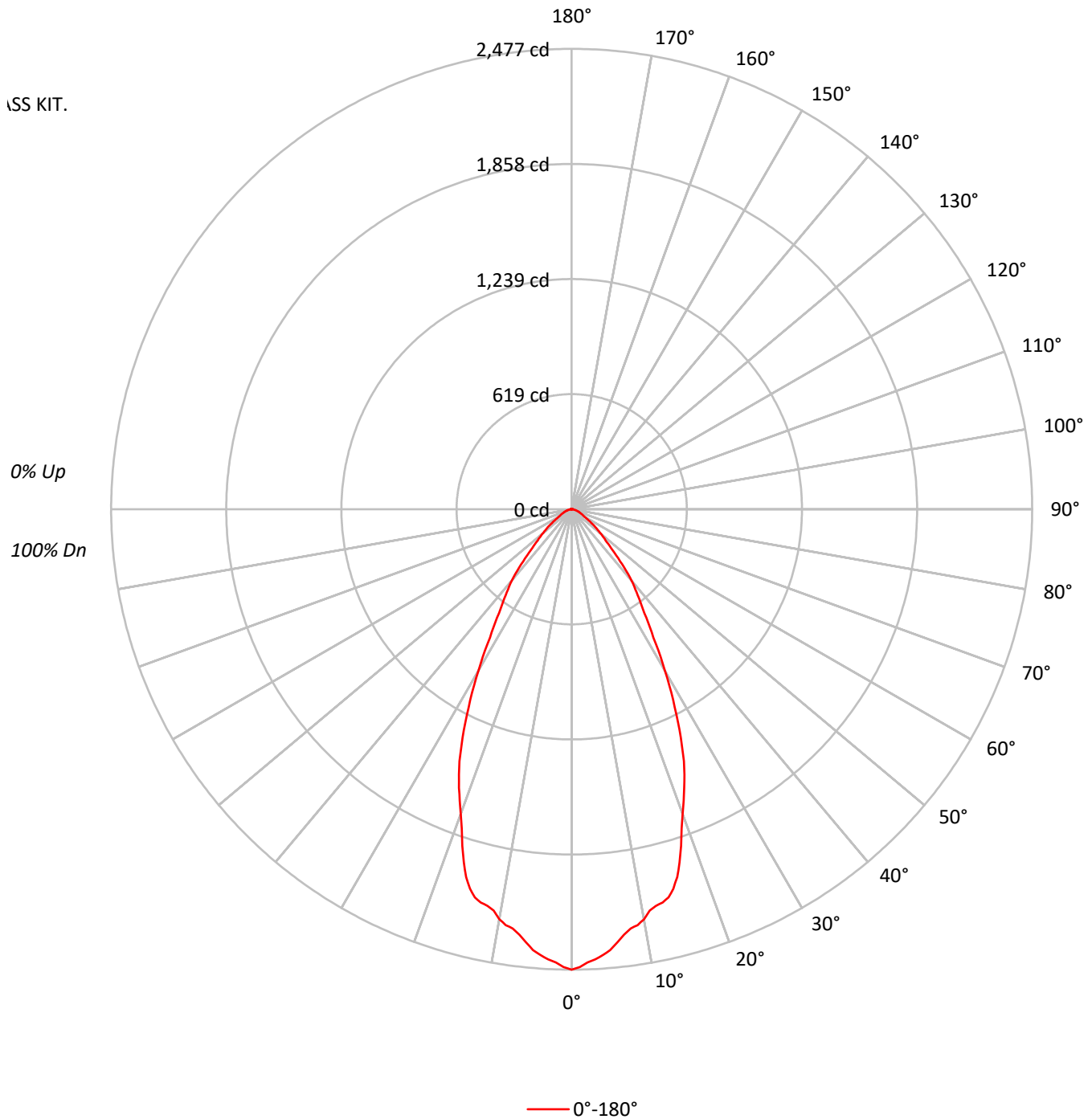
Lumens per Lamp: N/A
Luminaire Lumens: 2337.1 lumens
Efficiency: N/A
Efficacy: 74.0 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.34' x H: 0')
CIE Type: Direct

Input Watts (W): 31.6
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°	287302
5°	277176
10°	263775
15°	253694
20°	215231
25°	179559
30°	134395
35°	96493
40°	76142
45°	50503
50°	36900
55°	26146
60°	18001
65°	15478
70°	13564
75°	11606
80°	9418
85°	9448

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 50503 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.9	9.5
10°-20°	575.9	24.6
20°-30°	633.6	27.1
30°-40°	439.3	18.8
40°-50°	250.5	10.7
50°-60°	119.1	5.1
60°-70°	56.3	2.4
70°-80°	27.6	1.2
80°-90°	8.0	0.3
90°-100°	2.9	0.1
100°-110°	1.9	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°	1431.4	61.2
0°-40°	1870.7	80.0
0°-60°	2240.3	95.9
0°-90°	2332.2	99.8
90°-120°	4.8	0.2
90°-150°	4.8	0.2
90°-180°	5.0	0.2
0°-180°	2337.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2477	
5°	2381	222
15°	2113	576
25°	1403	634
35°	682	439
45°	308	250
55°	129	119
65°	56	56
75°	26	28
85°	7	7
90°	2	2
95°	2	2
105°	2	2
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°	2477.1
1°	2463.0
2°	2439.5
3°	2425.4
4°	2404.2
5°	2380.7
6°	2343.1
7°	2305.5
8°	2277.3
9°	2265.6
10°	2239.7
11°	2199.8
12°	2181.0
13°	2171.6
14°	2152.8
15°	2112.8
16°	2058.7
17°	1985.9
18°	1903.6
19°	1816.7
20°	1743.8
21°	1680.4
22°	1616.9
23°	1551.1
24°	1483.0
25°	1403.1
27.5°	1200.9
30°	1003.5
32.5°	817.9
35°	681.5
37.5°	582.8
40°	502.9
42.5°	401.9
45°	307.9
47.5°	246.8
50°	204.5
52.5°	166.9
55°	129.3
57.5°	98.7
60°	77.6
62.5°	65.8
65°	56.4
67.5°	47.0
70°	40.0
72.5°	32.9

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CANDELA DISTRIBUTION (continued):

	0°
75°	25.9
77.5°	18.8
80°	14.1
82.5°	9.4
85°	7.1
87.5°	4.7
90°	2.4
92.5°	2.4
95°	2.4
97.5°	2.4
100°	4.7
102.5°	2.4
105°	2.4
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)