

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: P702087

Luminaire Tested: 340-4C-30-D010 / 340-EU4C-3040-9024-4LBW1LI-GCC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702087
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-3040-9024-4LBW1LI-GCC
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, CLEAR INSIDE, CLEAR OUTSIDE GLA
Light Source: 2400K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

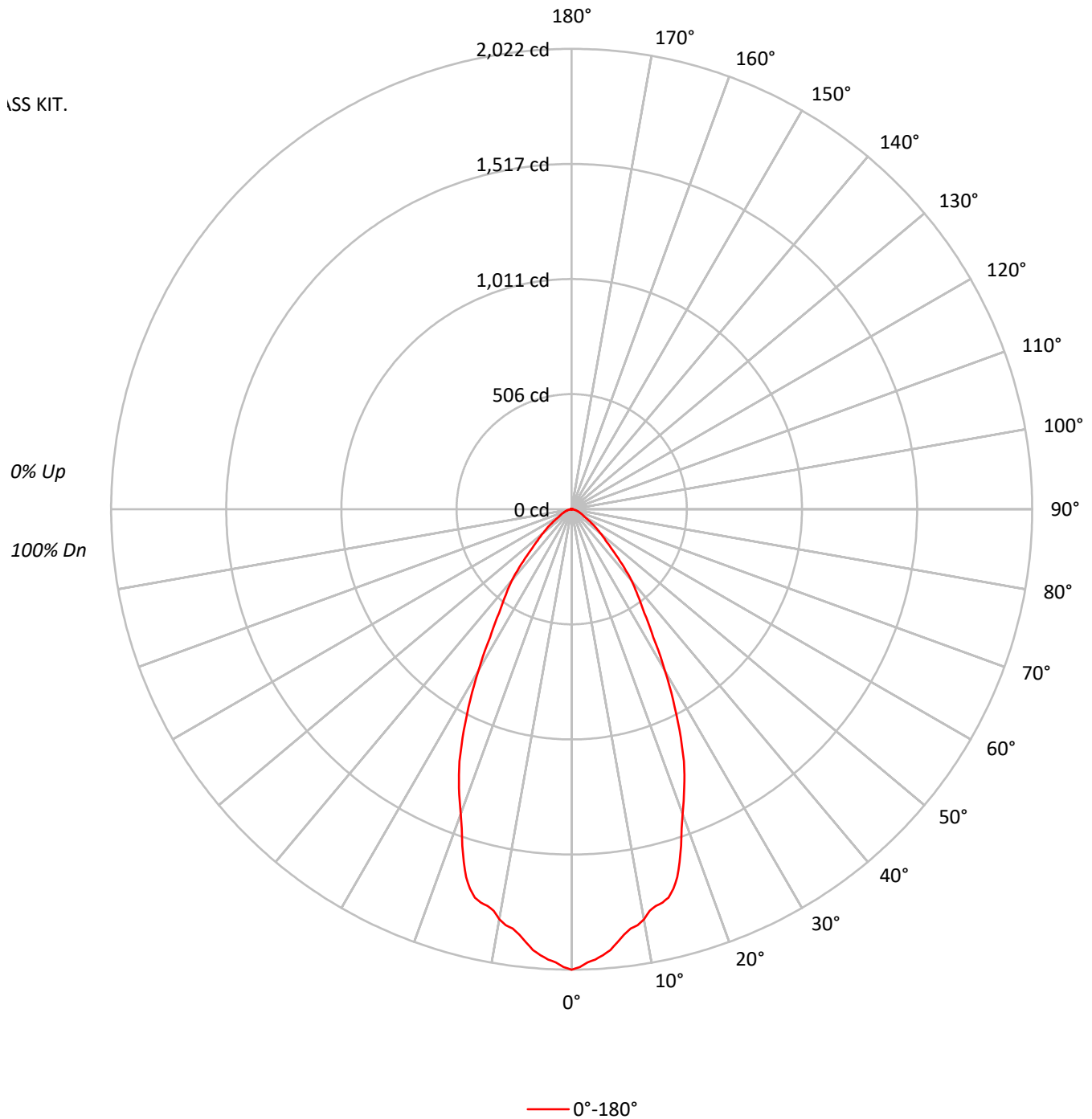
Lumens per Lamp: N/A
Luminaire Lumens: 1908.0 lumens
Efficiency: N/A
Efficacy: 60.4 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.34' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P702087

CATALOG NUMBER: 340-4C-30-D010 / 340-EU4C-3040-9024-4LBW1LI-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	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	85	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°	234564
5°	226309
10°	215359
15°	207129
20°	175735
25°	146593
30°	109725
35°	78794
40°	62167
45°	41236
50°	30115
55°	21333
60°	14683
65°	12652
70°	11055
75°	9455
80°	7681
85°	7718

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 41236 cd/sqm

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CATALOG NUMBER: 340-4C-30-D010 / 340-EU4C-3040-9024-4LBW1LI-GCC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.1	9.5
10°-20°	470.2	24.6
20°-30°	517.3	27.1
30°-40°	358.7	18.8
40°-50°	204.5	10.7
50°-60°	97.2	5.1
60°-70°	46.0	2.4
70°-80°	22.5	1.2
80°-90°	6.5	0.3
90°-100°	2.3	0.1
100°-110°	1.5	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°	1168.7	61.3
0°-40°	1527.4	80.1
0°-60°	1829.1	95.9
0°-90°	1904.1	99.8
90°-120°	3.9	0.2
90°-150°	3.9	0.2
90°-180°	4.0	0.2
0°-180°	1908.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2022	
5°	1944	181
15°	1725	470
25°	1146	517
35°	556	359
45°	251	204
55°	106	97
65°	46	46
75°	21	23
85°	6	6
90°	2	1
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

TEST NUMBER: P702087

CATALOG NUMBER: 340-4C-30-D010 / 340-EU4C-3040-9024-4LBW1LI-GCC

CANDELA DISTRIBUTION (FULL):

0°	
0°	2022.4
1°	2010.9
2°	1991.7
3°	1980.2
4°	1963.0
5°	1943.8
6°	1913.1
7°	1882.4
8°	1859.3
9°	1849.7
10°	1828.6
11°	1796.0
12°	1780.7
13°	1773.0
14°	1757.6
15°	1725.0
16°	1680.9
17°	1621.4
18°	1554.2
19°	1483.2
20°	1423.8
21°	1372.0
22°	1320.1
23°	1266.4
24°	1210.8
25°	1145.5
27.5°	980.5
30°	819.3
32.5°	667.8
35°	556.5
37.5°	475.9
40°	410.6
42.5°	328.1
45°	251.4
47.5°	201.5
50°	166.9
52.5°	136.2
55°	105.5
57.5°	80.6
60°	63.3
62.5°	53.7
65°	46.1
67.5°	38.4
70°	32.6
72.5°	26.9

TEST NUMBER: P702087

CATALOG NUMBER: 340-4C-30-D010 / 340-EU4C-3040-9024-4LBW1LI-GCC

CANDELA DISTRIBUTION (continued):

	0°
75°	21.1
77.5°	15.4
80°	11.5
82.5°	7.7
85°	5.8
87.5°	3.8
90°	1.9
92.5°	1.9
95°	1.9
97.5°	1.9
100°	3.8
102.5°	1.9
105°	1.9
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)