

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: P701926

Luminaire Tested: 340-4C-15-D010 / 340-EU4C-1020-9027-4LBW1LI-GCC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701926
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-15-D010 / 340-EU4C-1020-9027-4LBW1LI-GCC
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, CLEAR INSIDE, CLEAR OUTSIDE GLA
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

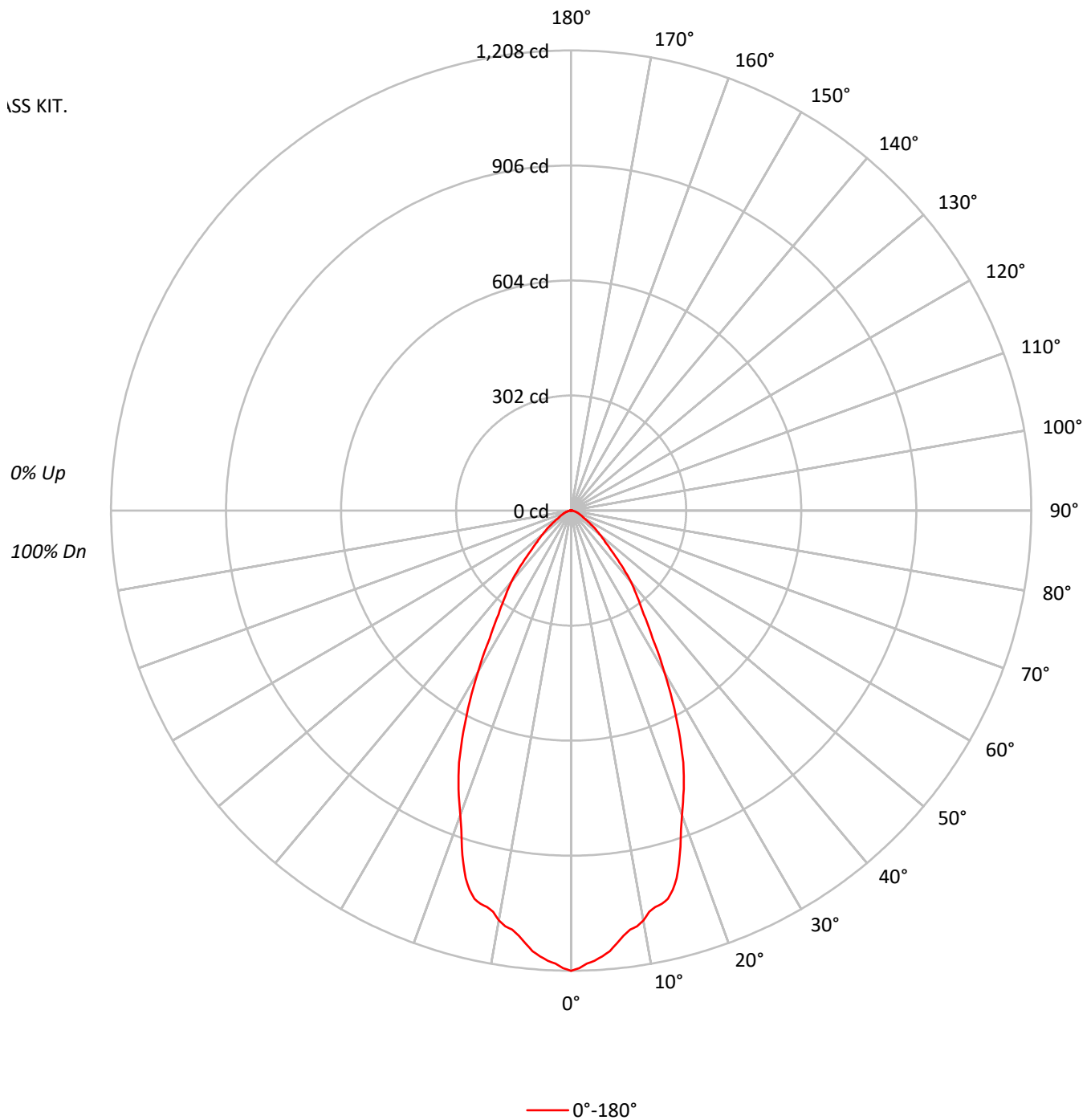
Lumens per Lamp: N/A
Luminaire Lumens: 1139.9 lumens
Efficiency: N/A
Efficacy: 72.1 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.34' x H: 0')
CIE Type: Direct

Input Watts (W): 15.8
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		90	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°	140154
5°	135217
10°	128678
15°	123761
20°	104999
25°	87585
30°	65557
35°	47078
40°	37140
45°	24637
50°	17990
55°	12759
60°	8768
65°	7547
70°	6613
75°	5646
80°	4609
85°	4525

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 24637 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.2	9.5
10°-20°	281.0	24.6
20°-30°	309.1	27.1
30°-40°	214.3	18.8
40°-50°	122.2	10.7
50°-60°	58.1	5.1
60°-70°	27.5	2.4
70°-80°	13.5	1.2
80°-90°	3.9	0.3
90°-100°	1.4	0.1
100°-110°	0.9	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°	698.3	61.3
0°-40°	912.6	80.1
0°-60°	1092.9	95.9
0°-90°	1137.7	99.8
90°-120°	2.3	0.2
90°-150°	2.3	0.2
90°-180°	2.0	0.2
0°-180°	1139.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1208	
5°	1161	108
15°	1031	281
25°	684	309
35°	332	214
45°	150	122
55°	63	58
65°	28	27
75°	13	13
85°	3	3
90°	1	1
95°	1	1
105°	1	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°	1208.4
1°	1201.5
2°	1190.0
3°	1183.2
4°	1172.8
5°	1161.4
6°	1143.0
7°	1124.7
8°	1110.9
9°	1105.2
10°	1092.6
11°	1073.1
12°	1063.9
13°	1059.3
14°	1050.2
15°	1030.7
16°	1004.3
17°	968.8
18°	928.6
19°	886.2
20°	850.7
21°	819.7
22°	788.8
23°	756.7
24°	723.4
25°	684.4
27.5°	585.9
30°	489.5
32.5°	399.0
35°	332.5
37.5°	284.3
40°	245.3
42.5°	196.0
45°	150.2
47.5°	120.4
50°	99.7
52.5°	81.4
55°	63.1
57.5°	48.2
60°	37.8
62.5°	32.1
65°	27.5
67.5°	22.9
70°	19.5
72.5°	16.1

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CANDELA DISTRIBUTION (continued):

	0°
75°	12.6
77.5°	9.2
80°	6.9
82.5°	4.6
85°	3.4
87.5°	2.3
90°	1.1
92.5°	1.1
95°	1.1
97.5°	1.1
100°	2.3
102.5°	1.1
105°	1.1
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)