

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: P701954

Luminaire Tested: 340-4C-15-D010 / 340-EU4C-1020-9050-4LBW1LI-GCC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701954
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-1020-9050-4LBW1LI-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

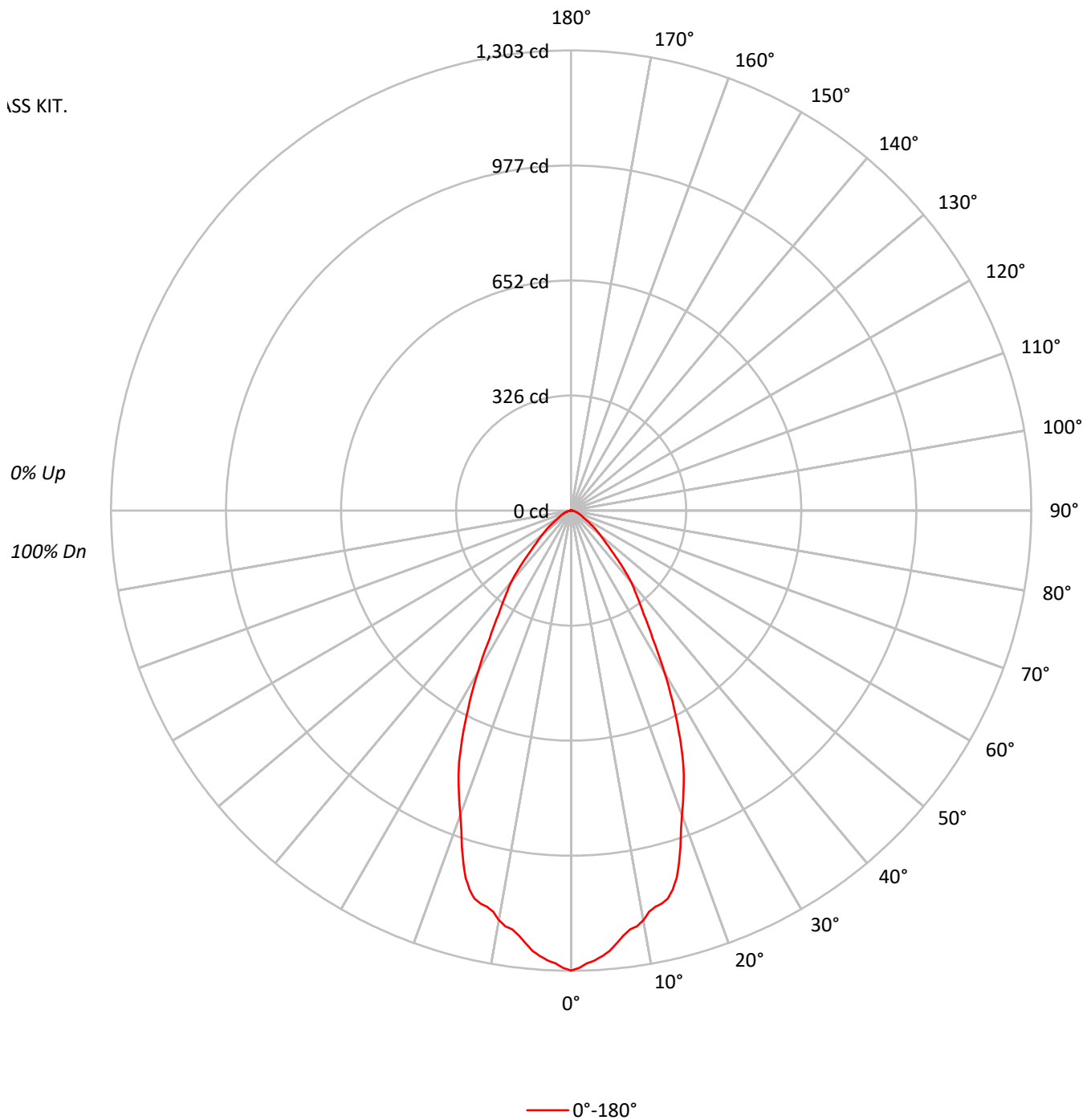
Lumens per Lamp: N/A
Luminaire Lumens: 1228.9 lumens
Efficiency: N/A
Efficacy: 77.8 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.34' x H: 0')
CIE Type: Direct

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°	151091
5°	145766
10°	138724
15°	133415
20°	113195
25°	94431
30°	70686
35°	50746
40°	40047
45°	26556
50°	19397
55°	13750
60°	9464
65°	8151
70°	7121
75°	6094
80°	4943
85°	4924

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 26556 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.7	9.5
10°-20°	302.9	24.6
20°-30°	333.2	27.1
30°-40°	231.0	18.8
40°-50°	131.7	10.7
50°-60°	62.6	5.1
60°-70°	29.6	2.4
70°-80°	14.5	1.2
80°-90°	4.2	0.3
90°-100°	1.5	0.1
100°-110°	1.0	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°	752.8	61.3
0°-40°	983.8	80.1
0°-60°	1178.2	95.9
0°-90°	1226.5	99.8
90°-120°	2.5	0.2
90°-150°	2.5	0.2
90°-180°	2.0	0.2
0°-180°	1228.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1303	
5°	1252	117
15°	1111	303
25°	738	333
35°	358	231
45°	162	132
55°	68	63
65°	30	30
75°	14	14
85°	4	4
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°	1302.7
1°	1295.3
2°	1282.9
3°	1275.5
4°	1264.4
5°	1252.0
6°	1232.2
7°	1212.5
8°	1197.6
9°	1191.5
10°	1177.9
11°	1156.9
12°	1147.0
13°	1142.0
14°	1132.1
15°	1111.1
16°	1082.7
17°	1044.4
18°	1001.1
19°	955.4
20°	917.1
21°	883.7
22°	850.3
23°	815.7
24°	779.9
25°	737.9
27.5°	631.6
30°	527.8
32.5°	430.1
35°	358.4
37.5°	306.5
40°	264.5
42.5°	211.3
45°	161.9
47.5°	129.8
50°	107.5
52.5°	87.8
55°	68.0
57.5°	51.9
60°	40.8
62.5°	34.6
65°	29.7
67.5°	24.7
70°	21.0
72.5°	17.3

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CANDELA DISTRIBUTION (continued):

	0°
75°	13.6
77.5°	9.9
80°	7.4
82.5°	4.9
85°	3.7
87.5°	2.5
90°	1.2
92.5°	1.2
95°	1.2
97.5°	1.2
100°	2.5
102.5°	1.2
105°	1.2
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)