

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: P701901

Luminaire Tested: 340-4C-10-D010 / 340-EU4C-1020-9727-4LBW1LI-CC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701901
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-3)
Test Lab: INNOVATION CENTER
Issue Date: 8/30/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 340-4C-10-D010 / 340-EU4C-1020-9727-4LBW1LI-CC
Description: FARALLON 4" LED GLASS DOWNLIGHT. CYLINDRICAL CLEAR GLASS KIT.
Light Source: 2700K CCT, 97 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

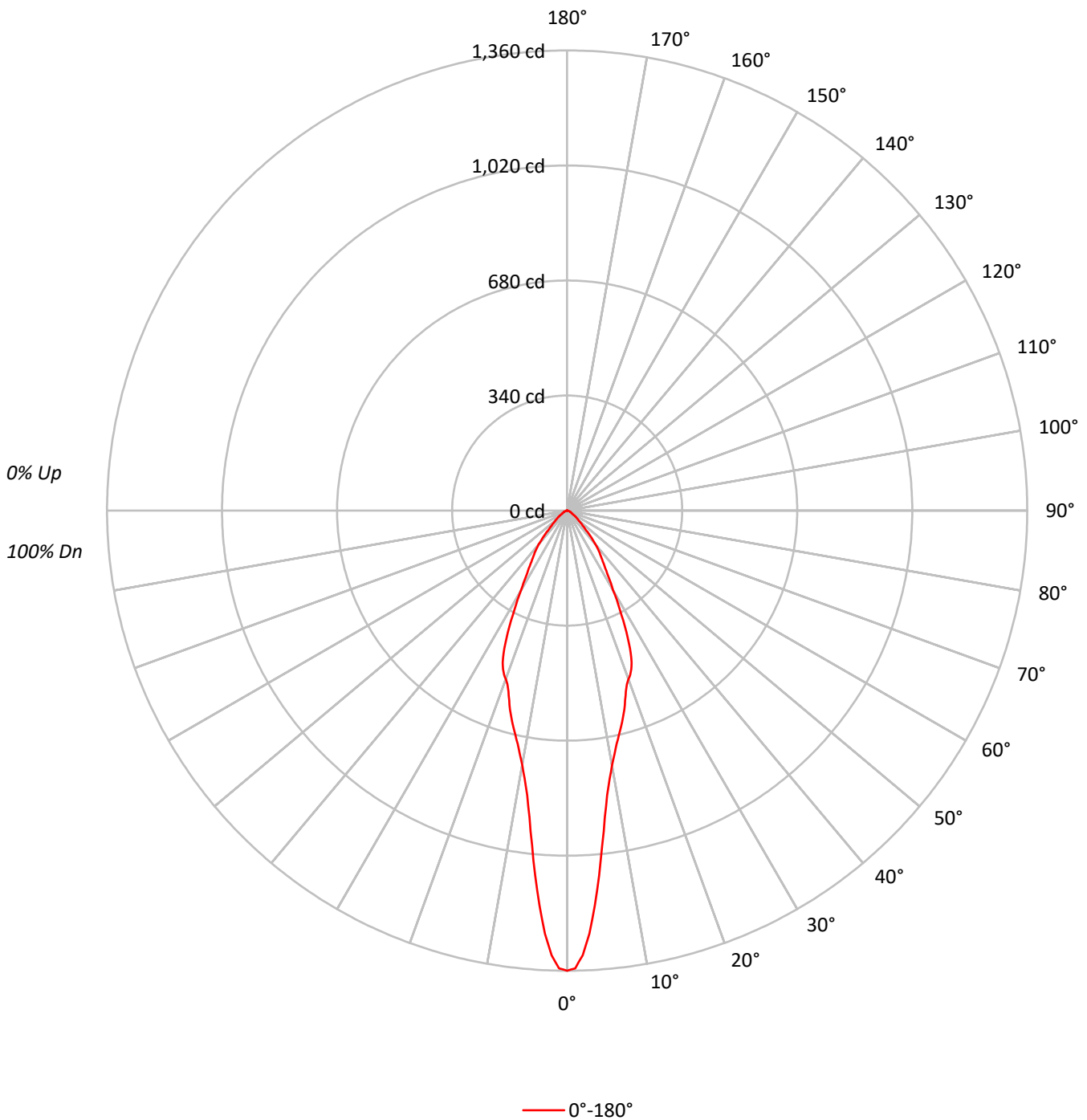
Lumens per Lamp: N/A
Luminaire Lumens: 679.8 lumens
Efficiency: N/A
Efficacy: 69.4 lumens/watt
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.64
Luminous Opening: Circular (Dia: 0.34' x H: 0')
CIE Type: Direct

Input Watts (W): 9.8
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	110	108	105	111	108	106	103	104	102	100		100	99	97		97	96	94	93
2	107	102	98	94	105	100	96	93	97	94	91		94	91	89		91	89	87	85
3	101	95	89	85	99	93	88	85	91	87	83		88	85	82		86	83	81	79
4	96	88	82	78	94	87	82	78	85	80	77		83	79	76		81	78	75	73
5	91	82	76	72	89	82	76	72	80	75	71		78	74	70		76	73	70	68
6	87	77	71	67	85	77	71	67	75	70	66		74	69	66		72	68	65	64
7	82	73	67	62	81	72	66	62	71	66	62		70	65	61		68	64	61	60
8	78	69	63	58	77	68	62	58	67	62	58		66	61	58		65	61	57	56
9	75	65	59	55	74	64	59	55	63	58	55		63	58	54		62	57	54	53
10	71	62	56	52	70	61	55	52	60	55	52		59	55	51		59	54	51	50

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	157737
5°	125985
10°	90049
15°	76343
20°	65441
25°	55400
30°	36401
35°	25982
40°	19849
45°	11662
50°	7705
55°	5601
60°	3642
65°	3293
70°	2781
75°	2017
80°	1469
85°	932

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11662 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.0	13.5
10°-20°	176.8	26.0
20°-30°	191.0	28.1
30°-40°	118.0	17.4
40°-50°	59.1	8.7
50°-60°	24.8	3.6
60°-70°	11.7	1.7
70°-80°	5.1	0.8
80°-90°	1.1	0.2
90°-100°	0.1	0.0
100°-110°	0.3	0.0
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°	459.8	67.6
0°-40°	577.8	85.0
0°-60°	661.6	97.3
0°-90°	679.5	99.9
90°-120°	0.4	0.1
90°-150°	0.4	0.1
90°-180°	0.0	0.0
0°-180°	679.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1360	
5°	1082	92
15°	636	177
25°	433	191
35°	184	118
45°	71	59
55°	28	25
65°	12	12
75°	4	5
85°	1	1
90°	0	0
95°	0	0
105°	0	0
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°	1360.0
1°	1353.2
2°	1315.0
3°	1252.1
4°	1170.5
5°	1082.1
6°	993.8
7°	913.6
8°	850.0
9°	802.1
10°	764.6
11°	732.4
12°	704.7
13°	680.7
14°	659.0
15°	635.8
16°	612.6
17°	586.4
18°	562.4
19°	542.9
20°	530.2
21°	519.7
22°	506.2
23°	487.5
24°	462.1
25°	432.9
27.5°	348.2
30°	271.8
32.5°	219.4
35°	183.5
37.5°	157.3
40°	131.1
42.5°	98.1
45°	71.1
47.5°	53.9
50°	42.7
52.5°	35.2
55°	27.7
57.5°	19.5
60°	15.7
62.5°	13.5
65°	12.0
67.5°	9.7
70°	8.2
72.5°	6.0

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CANDELA DISTRIBUTION (continued):

	0°
75°	4.5
77.5°	3.7
80°	2.2
82.5°	1.5
85°	0.7
87.5°	0.7
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.7
102.5°	0.7
105°	0.0
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)